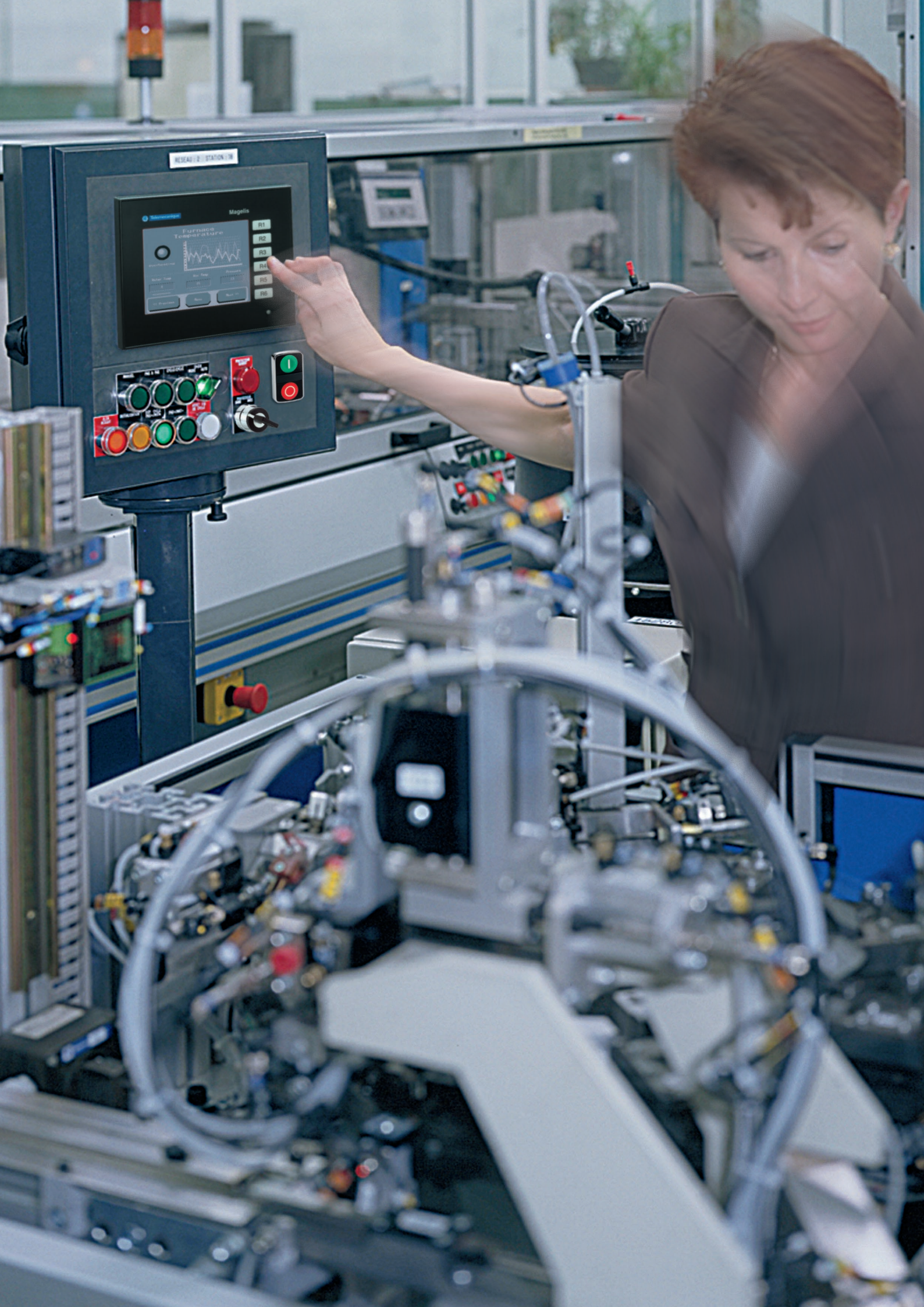


Harmony™ XB4/XB5/XB7 22 mm push buttons

Catalog
2014





Control machine access... Biometric switch

Designed to restrict access to industrial machines or processes to authorized personnel only, for...

- starting, set-up, adjustment
- switching to maintenance mode
- re-setting following an emergency stop

Robust and reliable

- Reduces problems inherent in existing systems: loss, theft or copying of keys, badges and passwords
- IP65, NEMA 12 degree of protection
- Protective cover (as accessory)
- Resistant to mechanical shock and vibration
- EMC protection

➔ For more information, see [page 160](#)



Simple

- Mounted in the same way as a standard 22 mm switch
- Fully stand-alone product with direct parametering and registration/recording on front face

200

recordable fingerprints capacity

Reduce installation time... Wireless, batteryless push buttons

By totally eliminating cabling and components between the push button and the electrical cabinet, you save installation time, and reduce your installation costs.

Simplified machine cabling

- with completely wireless push buttons

Easier integration through open protocols

- by serial link Modbus™ and Ethernet Modbus/TCP

Architecture solutions

- for integration into industrial and building environments

➔ For more information, see [page 170](#)



Choose high performance, compact, robust solutions...

Monolithic push buttons

For your control systems that require high-performance, compact, and easy-to-install components...Harmony XB7 push buttons are your ideal solution. The new Emergency Stop push button design allows immediate identification of safety functions and status of contacts.

Simple installation, simple integration

- easy to install and to integrate into your Control Systems

Designed for quality and conformity

- conforms to industry standards and Machinery Directive

High performance for industrial applications

- robust, durable controls for industry and buildings



➔ For more information, see [page 190](#)

Complete

product range

Boost performance and speed...

Contact blocks

Quick and secure connection

Spring terminal connection

- Intuitive cabling without using tool
- Excellent resistance to mechanical shock and vibration
- Trustworthy, safe and secure connections

➔ For more information, see [pages 50 & 124](#)



66% savings

in connection time vs. a screw clamp connector

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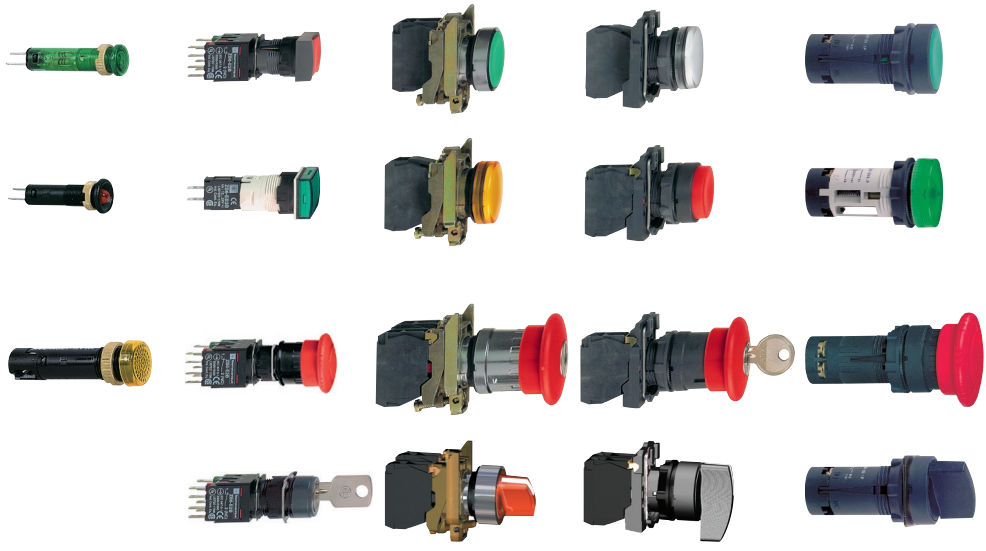


Harmony™ XB5 plastic products

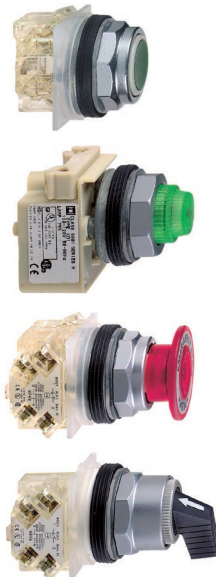
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Harmony™ XB4 metal and XB5/XB7 plastic 22 mm push buttons

| Applications | | Pilot lights | | Push buttons, selector switches and pilot lights | | |
|----------------------------------|------------------------|--|--|---|--------------------|----------------------------------|
| | |  | | | | |
| Description of the range | | <ul style="list-style-type: none"> ■ LED pilot lights ■ Push buttons ■ Emergency Stop buttons ■ Emergency switching off push buttons ■ Selector switches and key switches ■ Illuminated push buttons ■ Pilot lights | | | | |
| Features | Products | Monolithic, compact, low consumption | | Complete units or sub-assemblies (body + head) | | Monolithic |
| | Bezel | Double insulated | | Metal, chromium plated or black | Double insulated | |
| | Shape of head | Circular | Circular, square or rectangular | Circular | Circular or square | Circular |
| Drilling or cut-out for mounting | | 8 and 12 mm | 16 mm | 22 mm | 22 and 25 mm | |
| Degree of protection | Conforming to IEC60529 | IP 40 IP 65 with seal | IP 65 | IP 66 IP 69K for selectors switches, multiple-headed push buttons, and booted push buttons | | IP 54 |
| Cabling | | Tags for 2.8 x 0.5 mm connectors, or threaded connector | Faston® connectors Solder pins for printed circuit boards | Spring clamp terminal connections Screw clamp terminal connections Faston connectors Connector With adaptor for printed circuit board | | Screw clamp terminal connections |
| Mounting | Panel thickness | 1 to 8 mm | 1 to 6 mm | | | |
| Type references | | XVLA | XB6 | XB4 | XB5 | XB7 |
| Pages | | Please refer to the Digest | | 26 to 47 | 98 to 121 | 190 to 204 |

| Joystick controllers | Push buttons, selector switches and pilot lights | Cam switches |
|----------------------|--|--------------|
|----------------------|--|--------------|



- 2 or 4 direction
- Stay put or spring return

- Push buttons
- Emergency Stop buttons
- Emergency switching off push buttons
- Selector switches and key switches
- Illuminated push buttons
- Pilot lights

- Switches
- Stepping switches
- Reversing and changeover switches
- Ammeter switches
- Voltmeter switches
- Reversing switches
- Star-delta and reversing star-delta switches
- Pole change switches

| | | | | |
|---|-------------------------|-------|--|---|
| Complete units or sub-assemblies (body + head with lever) | | | Complete units or sub-assemblies (body + head) | Complete units or sub-assemblies (body + front panel + head) |
| Chromium plated metal | Double insulated, black | | Chromium plated metal or double insulated | Metal, chromium plated or black Double insulated |
| Circular | | | Hexagonal | Square |
| 22 mm | | | 30 mm | 16 or 22 mm: series K10 22 mm and multimounting: series K2 4 holes, 48 or 68 centers: series K30 to K150 |
| IP 65 | IP 66 | IP 65 | IP 65 | IP65: series K10 IP 40, IP 65 with seal: series K2 IP 40: series K30 to K150 |
| Screw and captive cable clamp connections | | | Screw and captive cable clamp connections | |
| 1 to 6 mm | | | 1 to 6 mm | 0.5 to 6 mm (depending on model) |

| | | | | |
|--------------|--------------|--------------|----------------------|---|
| XD4PA | XD2GA | XD5PA | 9001K, 9001SK | K10, K2, K30, K50, K63, K115, K150 |
|--------------|--------------|--------------|----------------------|---|

| | | | | |
|----|----------------------------|-----|----------------------------|----------------------------|
| 47 | Please refer to the Digest | 121 | Please refer to the Digest | Please refer to the Digest |
|----|----------------------------|-----|----------------------------|----------------------------|

Harmony™ control stations and enclosures

| | | | |
|-------------------|--|--|-------------------------|
| Ranges | Universal | | |
| | Plastic | | Metal |
| Enclosures | Complete stations and separate components for customer assembly | Complete stations and separate components for customer assembly | Empty enclosures |



| | | | |
|---|--------------------------------|---|--|
| Main feature | Pre-drilled enclosures | | Pre-drilled or undrilled enclosures |
| Associated control and signaling units | Harmony XB5 with plastic bezel | | Harmony XB4 with metal bezel Harmony XB5 with plastic bezel |
| Number of cut-outs for 22 mm control and signaling units | 1, 2, 3, 4 or 5 | 1, 2 or 3 (complete stations) 1, 2, 3, 4 or 5 (empty enclosures) | 1, 2, 3, 4, 6, 8 or 12 |
| Material | Polycarbonate | | Zinc or aluminium alloy |
| Color | Yellow lid Light grey base | Dark grey lid Light grey base | XAP M: Blue lid Blue base XAP J: Yellow lid Blue base |
| Degree of protection | IP 66 IP 69K with boot | | IP 65 |
| Function | Emergency stop | Start or Stop Start-Stop with pilot light Movement control | According to equipment fitted: <input type="checkbox"/> Start or Stop <input type="checkbox"/> Start-Stop with pilot light <input type="checkbox"/> Movement control <input type="checkbox"/> Emergency stop |
| Cable entries | Knock-outs | | Drilled |
| Type references | XALK | XALD | XAPM, XAPJ |
| Page(s) | Please refer to the Digest | | |

| Universal | | Optimum | | Application specific | |
|------------------|--|----------------------------|---|------------------------------------|-------------------------------|
| Metal | Metal front plate, insulated protective rear cover | Plastic | | | Metal |
| Empty enclosures | Empty, flush mounting enclosures: front plate + rear cover | Empty insulated enclosures | Complete stations and separate components for customer assembly | Enclosures for severe environments | Key operated control stations |



| | | | | | |
|--|---|-------------------------------------|---|--------------------------------|------------------------|
| Pre-drilled enclosures | Pre-drilled front plates & rear covers | Pre-drilled or undrilled enclosures | Pre-drilled enclosures | Pre-drilled empty enclosures | Fitted stations |
| Harmony XB4 with metal bezel Harmony XB5 with plastic bezel | | | Harmony XB7, monolithic, plastic | Harmony XB5 with plastic bezel | With key lock bezel |
| 8, 16, 24, 30 or 40 | 1, 2, 3, 4 or 5 | 1, 2, 4, 8 or 16 | 1, 2 or 3 | 1, 2, 3, 4 or 5 | – |
| Aluminium alloy or sheet steel | Front plate: brushed aluminium Rear cover: polystyrene | Glass-reinforced polyester | ABS | Mineral reinforced polyamide | Zinc alloy |
| Blue lid and base | Unpainted aluminium | Colored grey throughout | Light grey or yellow lid Light grey base | Black lid Black base | Grey |
| IP 54 | IP 65 | | IP 54 | IP 66 | IP 54 |
| According to equipment fitted: <input type="checkbox"/> Start or Stop <input type="checkbox"/> Start-Stop with pilot light <input type="checkbox"/> Movement control <input type="checkbox"/> Emergency stop | | | | | Start-Stop |
| Drilled | Knock-outs | Tapped for cable gland | Knock-outs | ISO 20 | Tapped for cable gland |
| XB2SL | XAPE | XAPA | XAL E | XAL G | XAP S |

Please refer to the Digest

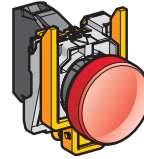
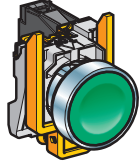
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Description

The 22 mm product range of metal control and signaling units is comprised of:

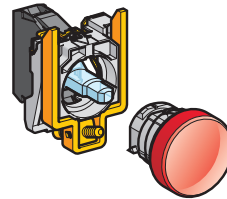
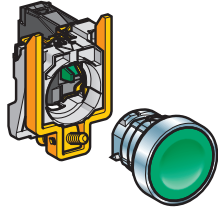
Complete units with chromium plated metal bezel, XB4B



Push buttons and switches

Pilot lights

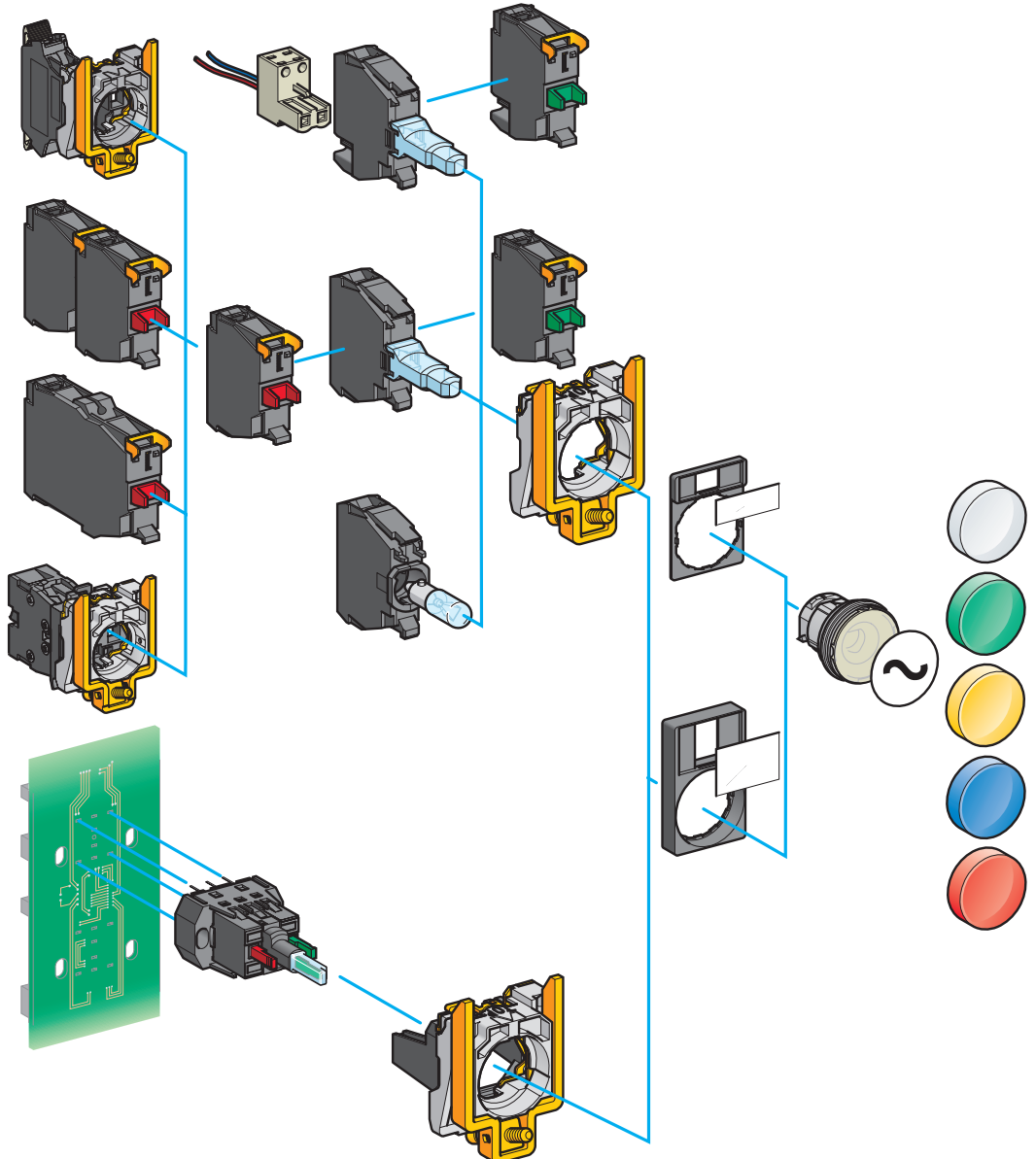
Sub-assemblies with chromium plated or black metal bezel, ZB4B



Push buttons and switches:
body + head sub-assemblies

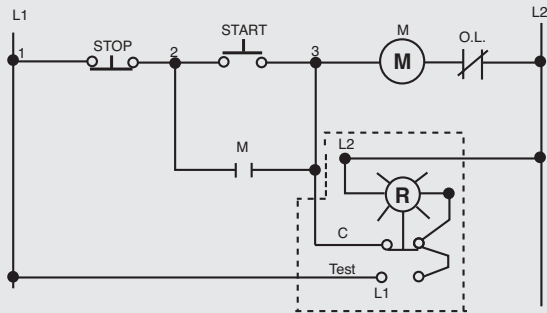
Pilot lights:
body + head sub-assemblies

ZB component parts and accessories

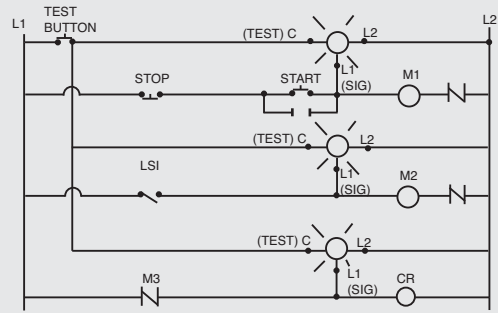


Schematic library

Typical wiring diagrams



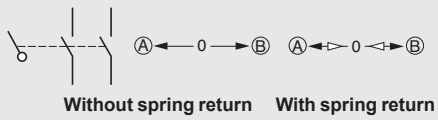
Push-To-Test Pilot Light



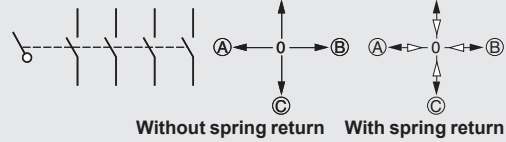
Remote Test Pilot Light

Joystick controller functions

2 direction



4 direction



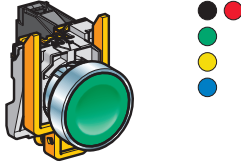
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB4B

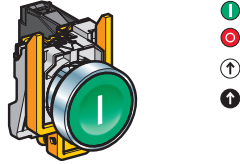
Complete units

Contact functions

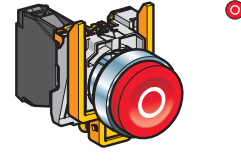
Push buttons, spring return,
with chromium plated metal
bezel



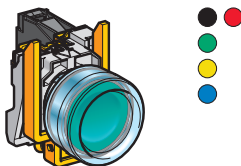
Flush push, unmarked
XB4BA●1/BA42
see page 26



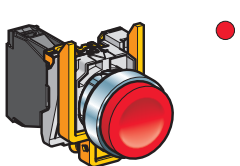
Flush push, with marking
XB4BA3311
see page 28



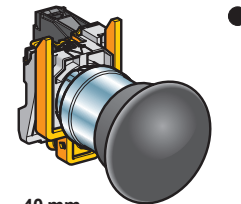
Projecting push, with marking
XB4BL4322
see page 28



Booted flush push
XB4BP●1/BP42
see page 27

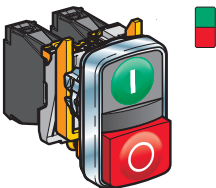


Projecting push, unmarked
XB4BL42
see page 27

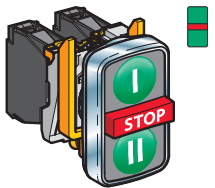


40 mm
Mushroom head
XB4BC21
see page 34

Multiple-headed push
buttons, spring return, with
chromium plated metal bezel

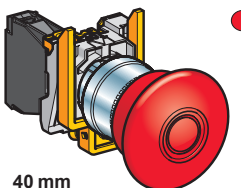


Double-headed
XB4BL73415
see page 33

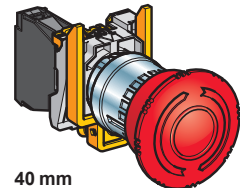


Triple-headed
XB4BA731327/XB4BA711237
see page 33

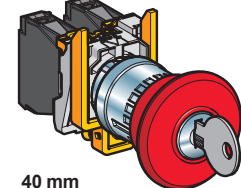
Emergency Stop or
Emergency switching off
mushroom head push
buttons, 40 mm, with
chromium plated metal bezel



40 mm



40 mm



40 mm

Emergency stop trigger
action and mechanical
latching

Push-pull (EN/ISO 13850: 2006)
XB4BT845
see page 36

Turn to release (EN/ISO 13850: 2006)
XB4BS844●
see page 36

Key release (EN/ISO 13850: 2006)
XB4BS9445
see page 36

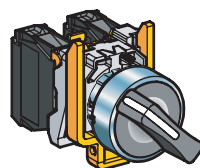
Emergency switching off
mechanical latching

Push-pull (IEC 60364-5-53)
XB4BT42
see page 37

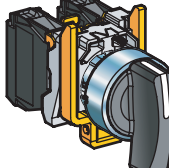
Turn to release (IEC 60364-5-53)
XB4BS542
see page 37

Key release (IEC 60364-5-53)
XB4BS142
see page 37

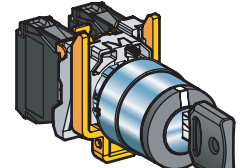
Selector switches and key
switches, with chromium
plated metal bezel



Standard handle, black
XB4BD●●
see page 38



Long handle, black
XB4BJ●●
see page 39



Key switch
XB4BG●●
see page 40

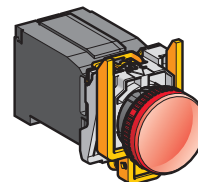
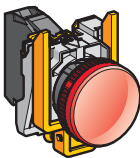
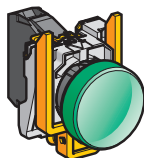
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB4B

Complete units

Signaling functions

Pilot lights



Integral LED

XB4BVB●/BVG●/BVM●
see page 44

For bulb with BA 9s base fitting
Direct supply

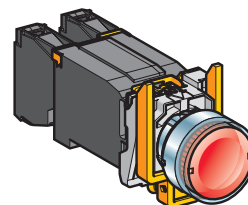
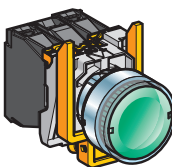
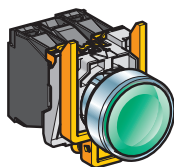
XB4BV6●
see page 45

Via integral transformer with secondary

XB4BV3●/BV4●
see page 45

Combined functions (contact + signaling)

Illuminated push buttons, spring return, flush push, chromium plated metal bezel



Integral LED

XB4BW3●B5/BW3●G5/BW3●M5
see page 29

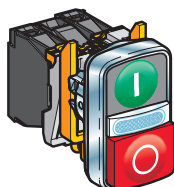
For bulb with BA 9s base fitting
Direct supply

XB4BW3●65
see page 31

Via integral transformer

XB4BW3●35/BW3●45
see page 31

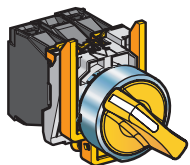
Double-headed push buttons + pilot light block, spring return, chromium plated metal bezel



Integral LED

XB4BW73731●5
see page 32

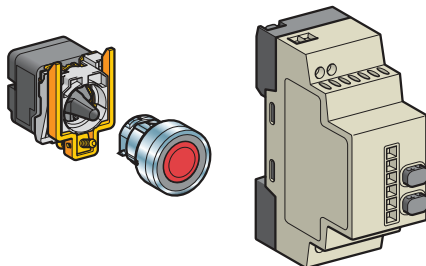
Illuminated selector switches with standard handle, chromium plated metal bezel



Integral LED

XB4BK12●●5, XB4BK13●●5
see page 42

Wireless, batteryless push button



Ready-to-use packs

XB4R●●●●
see page 188

Harmony™ XB4 metal 22 mm push buttons

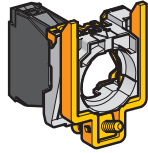
Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

**Non-illuminated units
for user assembly**

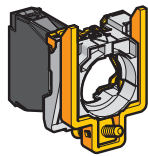
Contact functions

For push buttons,
spring return, unmarked

**Body
sub-assemblies**

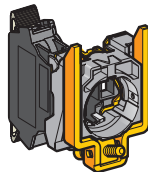


Screw clamp
terminals
ZB4BZ10/BZ141
page 48



Faston®
ZB4BZ10/3
page 52

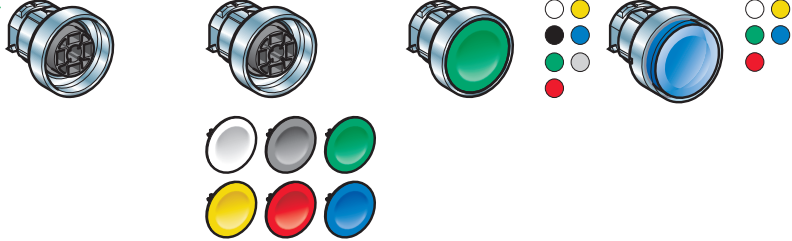
For push buttons,
spring return, with marking



Spring clamp
terminals
ZBE 10/5
ZB4BZ10/5
page 50

For multiple-headed push
buttons, spring return

Head sub-assemblies, chromium plated or black metal bezel

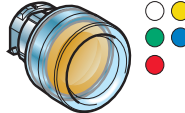
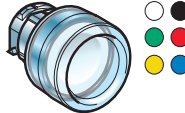
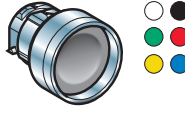
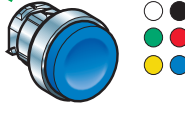


Flush push
without cap
ZB4BA0
page 26

Flush push
with set of 6 caps
ZB4BA9
page 26

Flush push
ZB4BA●
page 26

Flush push for
insertion of legend
ZB4BA●8
page 26



Projecting push
ZB4BL●
page 26

Recessed push
ZB4BA●6
page 27

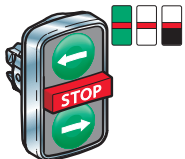
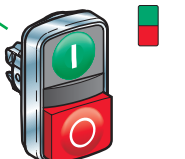
Booted flush/
projecting push
ZB4BP●/BP●S
page 27

Booted flush push
for insertion of legend
ZB4BP●8
page 27



Flush push
ZB4BA●3●/BA●4●
ZB4BA334/335
page 28

Projecting push
ZB4BL●3●
page 28



Double-headed push
buttons
ZB4BA7●●●
ZB4BA79
ZB4BL734●
page 32

Triple-headed push buttons
ZB4BA7313●
ZB4BA711●●
ZB4BA72124
ZB4BA791
page 33

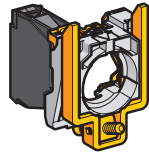
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

**Non-illuminated units
for user assembly
(continued)**

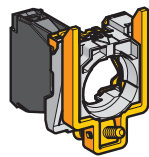
Contact functions

For mushroom head push buttons



Screw clamp terminals
ZB4BZ10●/BZ141
page 48

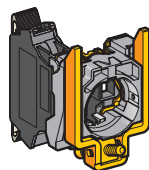
For Emergency Stop or
Emergency switching off
mushroom head push buttons



Faston®
ZB4BZ10●3
page 52

Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching



Spring clamp terminals
ZBE 10●5
ZB4BZ10●5
page 50

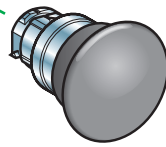
Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching

For selector switches
and key switches

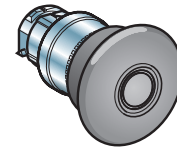
For toggle switches

Head sub-assemblies, chromium plated or black metal bezel



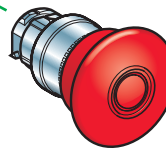
● ● ● ● ● ● ● ● ● ●
Ø 30
Ø 40
Ø 60

Spring return
ZB4BC●/BR●
see page 34



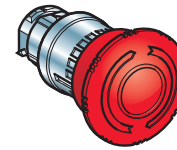
● ● ● ● ● ● ● ● ● ●
Ø 30
Ø 40
Ø 60

Latching
ZB4B●2/BS●2/BS55
see page 35



● ● ● ● ● ● ● ● ● ●
Ø 30
Ø 40
Ø 60

Push-pull (EN/ISO 13850: 2006)
ZB4BT84
see page 36

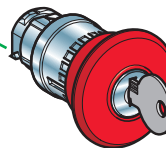


● ● ● ● ● ● ● ● ● ●
Ø 30
Ø 40
Ø 60

Turn to release (EN/ISO 13850: 2006)
ZB4BS8●4
see page 36

Push-pull (IEC 60364-5-3)
ZB4BT4/BX4
see page 37

Turn to release (IEC 60364-5-3)
ZB4BS44/BS54/BS64
see page 37



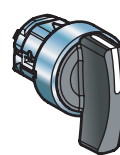
● ● ● ● ● ● ● ● ● ●
Ø 30
Ø 40
Ø 60

Key release (EN/ISO 13850: 2006)
ZB4BS9●4
see page 36

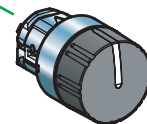
Key release (IEC 60364-5-3)
ZB4BS74/BS14/BS24
see page 37



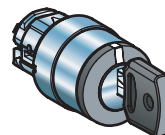
Standard black
handle (1)
ZB4BD●
page 38



Long black handle
(1)
ZB4BJ●
page 39

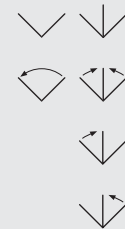


Knurled black knob
(1)
ZB4BD●9
page 41

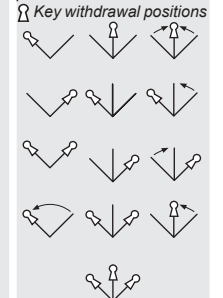


Key switch (2)
ZB4BG●●/
BG●TEC10
page 40

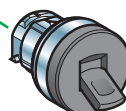
(1) Switch handle
and knob positions



(2) Key switch
positions



(3) Lever positions



2-position lever (3)
ZB4BD●8, see page 41

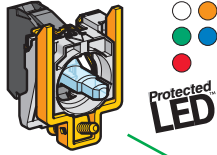
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

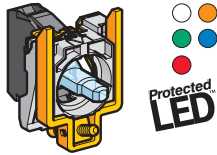
**Pilot lights
for user assembly**

Signaling functions

**Body sub-assemblies
with integral LED**



Connection: screw
clamp terminals
**ZB4BVJ/BVB/BVG/
BVM**
see page 56

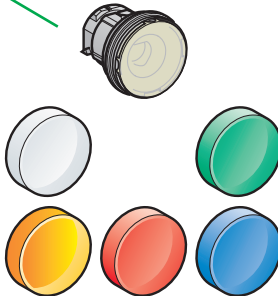


Connection: plug-in
connector
**ZB4VB●4/BVG●4/
BVM●4**
please consult your
Regional Sales Office

Head sub-assemblies



With lens fitted
ZB4BV0●3
see page 44

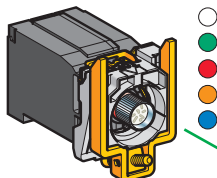


With 5 separate lenses, not fitted
ZB4BV003
see page 44

**Body sub-assemblies
for BA 9s bulb**



Direct supply
Connection: screw
clamp terminals
ZB4BV6
see page 59



Via integral transformer
Connection: screw clamp
terminals
ZB4BV●D●
see page 59

Head sub-assemblies



With lens fitted
ZB4BV0●, ZB4BV0●S
see page 45

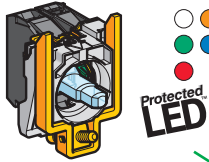
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

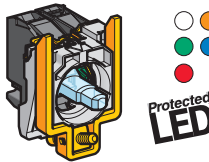
Illuminated push buttons for user assembly

For illuminated push buttons, spring return

Body sub-assemblies with integral LED



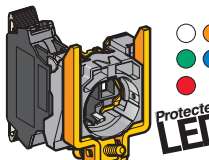
Screw clamp terminals
ZB4BW0B/BW0G/
BW0M
page 54



Plug-in connector
ZB4BW0B●●4
please consult your
Regional Sales Office

For illuminated double-headed push buttons, spring return

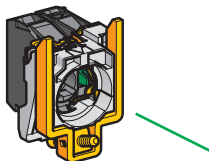
For illuminated "push-push to release" push buttons and illuminated selector switches with standard handle



Spring clamp terminals
ZBV●●●
page 50

For illuminated mushroom head push buttons

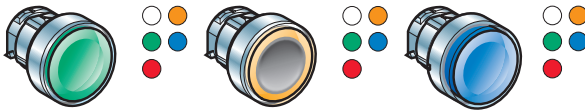
For illuminated push buttons, spring return



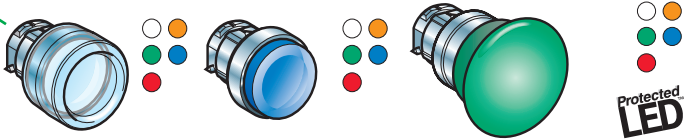
Direct supply or via
integral transformer
Screw clamp terminals
ZB4BW0●●●
page 58

Combined functions (contact + signaling)

Head sub-assemblies, chromium plated or black metal bezel



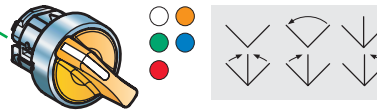
| | | |
|-----------------------------------|---|--|
| Flush push ZB4BW3●3 page 30 | Flush push with illuminated ring ZB4BW9●3 page 30 | Flush push for insertion of legend ZB4BA●8 page 30 |
|-----------------------------------|---|--|



| | | |
|--|--|---|
| Booted flush push ZB4BW5●3 page 30 | Projecting push ZB4BW1●3, ZB4BW1●3S page 30 | Mushroom head, spring return ZB4BW4●3 page 34 |
|--|--|---|



Double-headed (flush/flush push) + central pilot light
Double-headed (flush/projecting push) + central pilot light
ZB4BW7A17●● / ZB4BW7A374● / ZB4BW7A9, see page 32
ZB4BW7L374●, see page 32



Selector switches with standard handle
ZB4BK1●●3
see page 42



| | |
|--|--|
| Mushroom head, latching ZB4BW6●3 see page 35 | Emergency switching off, mechanical latching, push-pull ZB4BW643 see page 37 |
|--|--|

Body sub-assemblies for BA 9s bulb

Head sub-assemblies, chromium plated or black metal bezel



| | |
|---|--|
| Flush push ZB4BW3●, ZB4BW3●S page 31 | Projecting push ZB4BW1●, ZB4BW1●S page 31 |
|---|--|

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

| Environment | | | |
|---|-------------------------------------|----|---|
| Protective treatment standard version | | | "TH" treatment |
| Ambient air temperature around the device | Storage | °C | - 40 to + 70 |
| | Operation | °C | - 25 to + 70: LED and neon bulb versions - 25 to + 55: incandescent bulb version |
| Electric shock protection | Conforming to IEC 61140 | | Class I |
| Degree of protection | Conforming to IEC 60529 | | IP 66 IP 69 K (Selector switches and multiple-headed push buttons) |
| | Conforming to NEMA | | NEMA type 4X and 13, unless otherwise stated |
| Resistance to high pressure washer | | Pa | 70 x 10 ⁵ (70 bar); distance: 0.1 m Temperature: 55 °C |
| Mechanical shock protection | Conforming to IEC 50102 | | Non-illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06 |
| Conforming to standards | | | EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC60204-1 and EN/ISO 13850:2006 (Emergency stop trigger action and mechanical latching push buttons, see page 36063/2), IEC60364-5-53 (Emergency switching off mechanical latching push buttons, see page 36063/3) JIS C4520, UL 508, CSA C22-2 no. 14 |
| Product certifications | UL Listed, CSA | | Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4PA/ZD4PA: A600; R300 Special contact blocks: □ ZBE201: A300; Q300 □ ZBE202: A600; Q600 Single contacts for high power switching: □ ZBE501 and ZBE 502: A300; P300 |
| | UL Recognized, CSA | | Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300 |
| | BV, RINA, LROS, DNV, GL | | Standard single contacts and double contacts with screw clamp or spring terminals: |
| Terminal referencing | Conforming to EN 50005 and EN 50013 | | |

Specifications of contact or combined contact and signaling functions (see page 24)

| Mechanical specifications | | | |
|--|---|----|--|
| Contact operation | N/C or N/O | | Slow break |
| Positive operation | Conforming to EN/IEC 60947-5-1 appendix K | | All functions incorporating a N/C contact have positive opening operation |
| Operating travel (to change the electrical state) | Push button | mm | Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3 |
| Operating force | Push button | N | Changing N/C state: 3.5 Changing N/O state: 3.8 |
| | Additional contact only (extra to change state) | N | Single N/C contact: 2 Single N/O contact: 2.3 |
| | | N | Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6 |
| Emergency stop or Emergency switching off with N/C + N/O | | N | Standard push-pull: 45 Trigger action push-pull: 50 |
| | | N | Standard turn to release and key release: 40 Trigger action turn to release and key release, "trigger action": 44 |

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of contact or combined contact and signaling functions (continued) (see page 24)

| | | | |
|---|--|-----------------------|--|
| Operating torque (to change the electrical state) | Selector switches | N.m | N/O contact: 0.14 |
| | Additional contact only | N.m | N/O contact: 0.05 |
| Mechanical durability (in millions of operating cycles) | Push button | Spring return | 5 |
| | | Multiple-headed | 1 |
| | | Push-push to release | 0.5 |
| | Selector switch | Non-illuminated | 1 |
| | | Illuminated | 0.5 |
| | Toggle switch | | 0.5 |
| | Emergency Stop or Emergency switching off push button | | 0.3 with 3 contacts |
| | Joystick controller | | 1 |
| | Standard contact block only | | 5 |
| | Low power switching contact block only (dust protected) | | 0.5 |
| Vibration resistance | Conforming to IEC 60068-2-6 | | Frequency: 2 to 500 Hz: 5 gn |
| Mechanical shock resistance | Conforming to IEC 60068-2-27 | | All functions except mushroom head push buttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Mushroom head push button, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 10 gn |
| Electrical specifications | | | |
| Cabling capacity | Conforming to EN/IEC 60947-1 | mm² | Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end |
| Contact material | Silver alloy (Ag / Ni) | | Standard single and double blocks with screw clamp or spring terminals Blocks for plug-in connector Standard blocks for printed circuit board connection |
| | Gold flashed (Ag / Ni / Au) | | Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection |
| Short-circuit protection | Conforming to EN/IEC 60947-5-1d | A | Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1) |
| Rated thermal current | Conforming to EN/IEC 60947-5-1 | A | Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6 |
| Rated insulation voltage | Conforming to EN/IEC 60947-1 | V | Standard single and double blocks with screw clamp or spring terminals: U _i = 600, degree of pollution 3 Blocks for plug-in connector or Faston® connectors: Standard blocks for printed circuit board connection Contact blocks for high-power switching: U _i = 250, degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to IEC 60947-1 | kV | Standard single and double blocks with screw clamp or spring terminals: U _{imp} = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching applications: U _{imp} = 4 |

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of contact or combined contact and signaling functions (continued) (see page 24)

Electrical specifications (continued)

| | | | | | | |
|--|--|---|-----------|--|------|-----|
| Rated operational specifications Conforming to EN/IEC 60947-5-1 | | a.c. supply: utilization category AC-15 | | <p>Standard single and double blocks with screw clamp or spring terminals: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A</p> <p>Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A</p> <p>Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A</p> <p>Special contact blocks:</p> <ul style="list-style-type: none"> □ ZBE201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A <p>Contact blocks for high power switching:</p> <ul style="list-style-type: none"> □ ZBE50●: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A | | |
| | | d.c. supply: utilization category DC-13 | | <p>Standard single and double blocks with screw clamp or spring terminals Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A</p> <p>Joystick controllers XD4PA/ZD4PA: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A</p> <p>Special contact blocks:</p> <ul style="list-style-type: none"> □ ZBE201: Q300; Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE202: Q600; Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A <p>Contact block for high power switching:</p> <ul style="list-style-type: none"> □ ZBE50●: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A | | |
| Specifications of special contact blocks | Low power switching | | VA | P max: 12 | | |
| | | | A | I max: 0.1 | | |
| | | | V | U max: 24 | | |
| | High power switching Conforming to IEC/EN 60947-5-1 | 100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour | VA | P max: 240 | | |
| | | | A | I max: 10 | | |
| | | | V | U: 24 --- | | |
| Electrical durability Conforming to EN/IEC 60947-5-1 appendix C Operating rate 3600 operating cycles/hour Load factor: 0.5 | a.c. supply for 1 million operating cycles utilization category AC-15 | | V | 24 | 120 | 230 |
| | | | A | 4 | 3 | 2 |
| | d.c. supply for 1 million operating cycles utilization category DC-13 | | V | 24 | 120 | 230 |
| | | | A | 3 | 1.5 | 1 |
| | | V | 24 | 110 | | |
| | | A | 0.5 | 0.2 | | |
| | | | V | 24 | 110 | |
| | | | A | 0.4 | 0.15 | |
| Electrical reliability Failure rate Conforming to EN/IEC 60947-5-4 | In clean environment | | | <p>Standard blocks:</p> <ul style="list-style-type: none"> - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$ <p>Special blocks with gold flashed contacts for low power switching:</p> <ul style="list-style-type: none"> - at 5 V and 1 mA, $\lambda < 10^{-7}$ | | |
| | In dusty environment | | | <p>Special blocks with gold flashed contacts and dust protection for low power switching only:</p> <ul style="list-style-type: none"> - at 5 V and 1 mA, $\lambda < 10^{-7}$ | | |

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of illuminated units (pilot lights)

| Mechanical specifications | | | |
|---------------------------------|------------------------------|-----------------|--|
| Vibration resistance | Conforming to IEC 60068-2-6 | | Frequency: 12 to 500 Hz: 5 gn |
| Electric shock resistance | Conforming to IEC 60068-2-27 | | Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn |
| Electrical specifications | | | |
| Cabling capacity | Conforming to EN/IEC 60947-1 | mm ² | Screw clamp and spring terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end |
| Rated insulation voltage | Conforming to EN/IEC 60947-1 | V | Direct supply pilot light blocks (BA 9s bulb): U _i = 250, degree of pollution 3 Pilot light blocks with integral LED: U _i = 250, degree of pollution 3 Pilot light blocks with transformer: U _i = 600, degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV | Direct supply pilot light blocks (BA 9s bulb): U _{imp} = 4 Pilot light blocks with integral LED: U _{imp} = 4 Pilot light blocks with transformer: U _{imp} = 6 |

Specific specifications of single light blocks with integral LED

| | | | |
|--|---|-----|--|
| Voltage limits | For rated voltage | V | 12 V: 10 to 15 ~; 10.2 to 13.8 ~ 24 V: 19.2 to 30 ~; 21.6 to 26.4 ~ 24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~ |
| Current consumption | Applicable to all colors | mA | Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 Blocks with ~ 240 V supply: 14 |
| Service life | At rated voltage and at an ambient temperature of 25 °C | H | 100 000 |
| Surge withstand | Conforming to IEC 61000-4-5 | kV | 1 |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 2 |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3 | V/m | 10 |
| Resistance to electrostatic discharges | Conforming to IEC 61000-2-6 | kV | 8: in free air, in insulating parts 6: on contact, on metal parts |
| Direct parallel connection across inductive load e.g.: contactor coil or solenoid | Maximum power of load | VA | For high power applications (≥ 30 VA), a ZBZV● LED suppressor must be connected across the light block terminals (see page 49) |
| Electromagnetic emission | Conforming to IEC 55011 | | Class B |

Specific specifications

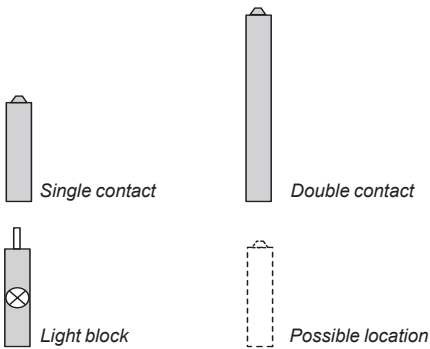
| Body/mounting collar | | | |
|-------------------------------------|------------------------------|-----|---|
| Tightening torque of mounting screw | | N.m | 0.8 (max 1.2) |
| Hour counters and annunciators | | | |
| Voltage limits | Hour counter and annunciator | | ± 10% of the nominal voltage |
| Current consumption | Hour counter | mA | XB5DSB: 7 to 15 XB5DSG: 8 XB5DSM: 8 |
| | Annunciator | mA | 5 |

Harmony™ XB4 metal 22 mm push buttons

Contact mounting - Contact sequence

Maximum recommended configurations for achieving catalog specifications

| Unit type (complete units XB4B, heads ZB4B) | Push buttons, spring return XB4BA●, ZB4BA●, (except ZB4BA●8) XB4BC●, ZB4BC●, XB4BL●, ZB4BL●, XB4BP●, ZB4BP●, ZB4BR● Triple-headed push buttons XB4BA731327, XB4BA711137, ZB4BA7313●, ZB4BA7111●, ZB4BA72124, ZB4BA791 | Double-headed push buttons XB4BL73415, ZB4BA712●, ZB4B●734●, ZB4BA79 | Illuminated push buttons, spring return XB4BW●, ZB4BW●, ZB4BA●8 Double-headed push buttons + pilot light block XB4BW73731●5, ZB4BW7A17●●, ZB4BW7●374●, ZB4BW7A9 | |
|--|--|---|--|-----------------------|
| Solution using single contacts | | | | |
| Solution using single and double contacts | | | | |
| Maximum recommended configurations | Single contacts Double contacts + single contacts Light block | 9 3 + 3 - | 6 2 + 2 - | 6 2 + 2 1 |



Possible configurations for high power switching contacts ^{(1) (2)}

High power switching contact blocks with screw clamp terminal connections:

ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505

High power switching contact blocks with connection by Faston® connectors

ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

| | | |
|-------|-------|---|
| | | |
| 1 N/O | 1 N/C | 1 N/O + N/C 1 N/O + N/O 1 N/C + N/C |

(1) The configurations are not upgradable and cannot be combined with other types of contact and signaling functions.

(2) High power switching contacts are not compatible with Harmony triple-headed push buttons.

| Emergency stop or Emergency switching off XB4BT●, ZB4BT●, XB4BS●, ZB4BS● | | Selector switches ■ Standard handle XB4BD●, ZB4BD●, ■ Long handle XB4BJ●, ZB4BJ●, ■ Knurled knob ZB4BD●9, ■ Key switch XB4BG●, ZB4BG● | | | Illuminated selector switches, standard handle XB4BK●, ZB4BK● | | Toggle switches ZB4BD●8 | |
|--|---|---|---|---|---|---|----------------------------|--|
| | | | | | | | | |
| 4 | 4 | 5 | 4 | 6 | 4 | 6 | | |
| 2 | 1 | 2 | 1 | 2 | 2 | 3 | | |
| + | + | + | + | + | + | + | | |
| 0 | 2 | 1 | 2 | 2 | 0 | 0 | | |
| - | - | - | - | - | 1 | - | | |













Sequence of contacts fitted to selector switch bodies

| Unit type | | | Selector switches | | | | | | | | |
|---------------------------|----------|--------|-------------------|-------|-------|------------|-------|-------|-------|--|--|
| | | | 2-position | | | 3-position | | | | | |
| | | | 315° | 45° | 315° | 0° | 45° | | | | |
| Push | Position | Top | | | | | | | | | |
| | | Bottom | | | | | | | | | |
| | Location | | L C R | L C R | L C R | L C R | L C R | L C R | L C R | | |
| | State | | 0 0 0 | 1 1 1 | 1 1 0 | 0 0 0 | 0 1 1 | | | | |
| Contacts | N/O | | □ □ □ | ■ ■ ■ | ■ ■ □ | □ □ □ | □ ■ ■ | | | | |
| | N/C | | ■ ■ ■ | □ □ □ | □ □ ■ | ■ ■ ■ | ■ □ □ | | | | |
| L left, C center, R right | | | | | | | | | | | |
| □ open, ■ closed | | | | | | | | | | | |

Harmony™ XB4 metal 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62

| Push buttons with flush push ⁽¹⁾ | | | | | | |
|---|---|---|---|-------------------------|---------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of push | Type of contact | | Color of push | Reference | Weight |
| | |  |  | | | |
| | | N/O | N/C | | | kg |
| Complete units | | | | | | |
|  | Flush | 1 | – | White | XB4BA11 (ZB4BZ101 + ZB4BA1) | 0.080 |
| | | | | Black | XB4BA21 (ZB4BZ101 + ZB4BA2) | 0.080 |
| | | | | Green | XB4BA31 (ZB4BZ101 + ZB4BA3) | 0.080 |
| | | | | Yellow | XB4BA51 (ZB4BZ101 + ZB4BA5) | 0.080 |
| | | | | Blue | XB4BA61 (ZB4BZ101 + ZB4BA6) | 0.080 |
| | | – | 1 | Red | XB4BA42 (ZB4BZ102 + ZB4BA4) | 0.080 |
| Heads only | | | | | | |
|  | Without cap ⁽²⁾ | | | – | ZB4BA0 | 0.028 |
|  | Flush, with set of 6 colored caps | | | 6 colors ⁽³⁾ | ZB4BA9 | 0.038 |
|  | Flush | | | White | ZB4BA1 | 0.029 |
| | | | | Black | ZB4BA2 | 0.029 |
| | | | | Green | ZB4BA3 | 0.029 |
| | | | | Red | ZB4BA4 | 0.029 |
| | | | | Yellow | ZB4BA5 | 0.029 |
| | | | | Blue | ZB4BA6 | 0.029 |
| | | | | Grey | ZB4BA8 | 0.029 |
|  | Flush with transparent cap for insertion of legend ⁽⁴⁾ | | | White | ZB4BA18 | 0.028 |
| | | | | Green | ZB4BA38 | 0.028 |
| | | | | Red | ZB4BA48 | 0.028 |
| | | | | Yellow | ZB4BA58 | 0.028 |
| | | | | Blue | ZB4BA68 | 0.028 |
|  | Flush (high bezel) | | | White | ZB4BA14 | 0.034 |
| | | | | Black | ZB4BA24 | 0.034 |
| | | | | Green | ZB4BA34 | 0.034 |
| | | | | Red | ZB4BA44 | 0.034 |
| | | | | Yellow | ZB4BA54 | 0.034 |
| | | | | Blue | ZB4BA64 | 0.034 |
| Push buttons with projecting push ⁽¹⁾ | | | | | | |
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of push | Type of contact | | Color of push | Reference | Weight |
| | |  |  | | | |
| | | N/O | N/C | | | kg |
| Complete units | | | | | | |
|  | Projecting | – | 1 | Red | XB4BL42 (ZB4BZ102 + ZB4BL4) | 0.081 |
| Heads only | | | | | | |
|  | Projecting | | | White | ZB4BL1 | 0.030 |
| | | | | Black | ZB4BL2 | 0.030 |
| | | | | Green | ZB4BL3 | 0.030 |
| | | | | Red | ZB4BL4 | 0.030 |
| | | | | Yellow | ZB4BL5 | 0.030 |
| | | | | Blue | ZB4BL6 | 0.030 |



XB4BA31



ZB4BA0



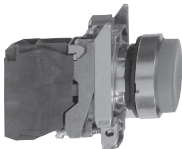
ZB4BA4



ZB4BA38



ZB4BA34



XB4BL42



ZB4BL1

Heads with black metal bezel

To order, add a figure 7 to the references listed from above.
Example: **ZB4BA0** becomes **ZB4BA07**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Colored cap to be ordered separately: see page 60.
(3) Head supplied with 6 different colored caps (white, black, green, red, yellow, blue) not fitted.
(4) For legend ordering information, see page 64.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.


Harmony™ XB4 metal 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62

Push buttons with recessed push (1)

High guard



| Shape of head | Type of push | Color | Reference | Weight kg |
|---|-----------------------|--------|----------------|-----------|
| Heads only | | | | |
|  | Recessed (high guard) | White | ZB4BA16 | 0.034 |
| | | Black | ZB4BA26 | 0.034 |
| | | Green | ZB4BA36 | 0.034 |
| | | Red | ZB4BA46 | 0.034 |
| | | Yellow | ZB4BA56 | 0.034 |
| | | Blue | ZB4BA66 | 0.034 |




ZB4BA36

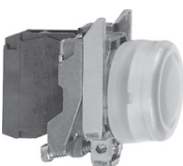
Push buttons with silicone booted head for severe environments (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact | Color of push | Reference | Weight kg |
|---------------|--------------|---|---------------|-----------|-----------|
| | |  | | | |
| | |  | | | |
| | | N/O | | | |
| | | N/C | | | |
| | | | | | kg |




Complete units

| | | | | | | |
|---|---|---|---|--------|---------------------------------------|-------|
|  | Booted, clear silicone (color of push unobscured) | 1 | - | Black | XB4BP21 (ZB4BZ101 + ZB4BP2) | 0.082 |
| | | | | Green | XB4BP31 (ZB4BZ101 + ZB4BP3) | 0.082 |
| | | | | Yellow | XB4BP51 (ZB4BZ101 + ZB4BP5) | 0.082 |
| | | | | Blue | XB4BP61 (ZB4BZ101 + ZB4BP6) | 0.082 |
| | | | | Red | XB4BP42 (ZB4BZ102 + ZB4BP4) | 0.082 |
| | | - | 1 | | | |



XB4BP21

Silicone booted heads only, with increased protection (IP 69K)

| | | | | | |
|---|------------|---|--------|----------------|-------|
|  | Flush | Clear boot (2) For insertion of protected legend within head (3) | White | ZB4BP18 | 0.034 |
| | | | Green | ZB4BP38 | 0.034 |
| | | | Red | ZB4BP48 | 0.034 |
| | | | Yellow | ZB4BP58 | 0.034 |
| | | | Blue | ZB4BP68 | 0.034 |
|  | Flush | Clear boot (2) | White | ZB4BPA1 | 0.034 |
| | | | Black | ZB4BPA2 | 0.034 |
| | | | Green | ZB4BPA3 | 0.034 |
| | | | Red | ZB4BPA4 | 0.034 |
| | | | Yellow | ZB4BPA5 | 0.034 |
| | | | Blue | ZB4BPA6 | 0.034 |
|  | Projecting | Clear boot (2) | White | ZB4BP1 | 0.031 |
| | | | Black | ZB4BP2 | 0.031 |
| | | | Green | ZB4BP3 | 0.031 |
| | | | Red | ZB4BP4 | 0.031 |
| | | | Yellow | ZB4BP5 | 0.031 |
| | | | Blue | ZB4BP6 | 0.031 |




ZB4BP18



ZB4BPA4

Silicone booted heads only, standard for mounting with legend holder (IP 66)

| | | | | | |
|---|-------|---|--------|-----------------|-------|
|  | Flush | Colored boot (4) | White | ZB4BP1S | 0.034 |
| | | | Black | ZB4BP2S | 0.034 |
| | | | Green | ZB4BP3S | 0.034 |
| | | | Red | ZB4BP4S | 0.034 |
| | | | Yellow | ZB4BP5S | 0.034 |
| | | | Blue | ZB4BP6S | 0.034 |
| | | Clear membrane (4) For insertion of protected legend within head (3) | White | ZB4BP183 | 0.026 |
| | | | Green | ZB4BP383 | 0.026 |
| | | | Red | ZB4BP483 | 0.026 |
| | | | Yellow | ZB4BP583 | 0.026 |
| | | | Blue | ZB4BP683 | 0.026 |



ZB4BP2S



ZB4BP183

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4BP18** becomes **ZB4BP187**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

(3) To order a legend for insertion within the head, see page 62.

(4) Replacement of silicone protection element without dismantling head, see page 61.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons Spring return push buttons, with marking

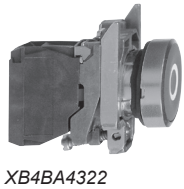
Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62

| Push buttons with flush or projecting push (1) | | | | | | | | |
|--|--------------|-----------------|------------|----------------------|---------------|---|-----------------|-----------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Type of push | Type of contact | | Marking Text (color) | Color of push | Reference | Weight | |
| | | N/O | N/C | | | | | |
| Complete units | | | | | | | | |
| | Flush | 1 | – | "I" (white) | Green | XB4BA3311 (ZB4BZ101 + ZB4BA331) | 0.080 | |
| | Flush | – | 1 | "O" (white) | Red | XB4BA4322 (ZB4BZ102 + ZB4BA432) | 0.080 | |
| | Projecting | – | 1 | "O" (white) | Red | XB4BL4322 (ZB4BZ102 + ZB4BL432) | 0.080 | |
| | Flush (2) | 1 | – | ↑ (black) | White | XB4BA3341 (ZB4BZ101 + ZB4BA334) | 0.080 | |
| | Flush (2) | 1 | – | ↓ (white) | Black | XB4BA3351 (ZB4BZ101 + ZB4BA335) | 0.080 | |
| Heads only | | | | | | | | |
| | Flush | | | "I" (white) | Green | ZB4BA331 | 0.029 | |
| | | | | "I" (black) | White | ZB4BA131 | 0.029 | |
| | | | | "II" (white) | Green | ZB4BA336 | 0.029 | |
| | | | | "II" (black) | White | ZB4BA136 | 0.029 | |
| | | | | "START" (white) | Green | ZB4BA333 | 0.029 | |
| | | | | "START" (black) | White | ZB4BA133 | 0.029 | |
| | | | | "ON" (white) | Green | ZB4BA341 | 0.029 | |
| | | | | "ON" (black) | White | ZB4BA141 | 0.029 | |
| | | | | "MARCHE" (black) | White | ZB4BA142 | 0.029 | |
| | | | | | (white) | Black | ZB4BA245 | 0.029 |
| | | | | | (black) | White | ZB4BA145 | 0.029 |
| | | | | "O" (white) | Red | ZB4BA432 | 0.029 | |
| | | | | | | Black | ZB4BA232 | 0.029 |
| | | | | "STOP" (white) | Red | ZB4BA434 | 0.029 | |
| | | | | | | Black | ZB4BA234 | 0.029 |
| | | | | "OFF" (white) | Red | ZB4BA435 | 0.029 | |
| | | | | | | Black | ZB4BA235 | 0.029 |
| | | | | ↑ (black) (2) | White | ZB4BA334 | 0.029 | |
| | | | | ↓ (white) (2) | Black | ZB4BA335 | 0.029 | |
| | | | Projecting | | | "O" (white) | Red | ZB4BL432 |
| | | | | | Black | ZB4BL232 | 0.030 | |
| | | | | "STOP" (white) | Red | ZB4BL434 | 0.030 | |
| | | | | | Black | ZB4BL234 | 0.030 | |
| | | | | "OFF" (white) | Red | ZB4BL435 | 0.030 | |
| | | | | | Black | ZB4BL235 | 0.030 | |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.
Example: **ZB4BA331** becomes **ZB4BA3317**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.



XB4BA4322



ZB4BA331



ZB4BA334




ZB4BL432

Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return,
with integral LED

Assembly of other products using body/contact assemblies: see page 48; combined sub-assemblies, see page 52; accessories, see page 62

| Illuminated push buttons with flush push ⁽¹⁾ | | | | | | | | | |
|--|---|---|---|----------------|------------------|--------------------------|--|--|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | | |
| Shape of head | Description | Type of contact | | Supply voltage | Color of push | Reference | Weight | | |
| | |  |  | V | | | kg | | |
| | | N/O | N/C | | | | | | |
| Complete units - With plain lens | | | | | | | | | |
|  XB4BW33B5 |  | Integral LED | 1 | 1 | ~ 24 50/60 Hz | White | XB4BW31B5 (ZB4BW0B15 + ZB4BW313) | 0.097 | |
| | | | | | | Green | XB4BW31B5 (ZB4BW0B35 + ZB4BW333) | 0.097 | |
| | | | | | | Red | XB4BW31B5 (ZB4BW0B45 + ZB4BW343) | 0.097 | |
| | | | | | | Orange | XB4BW35B5 (ZB4BW0B55 + ZB4BW353) | 0.097 | |
| | | | | | | Blue | XB4BW36B5 (ZB4BW0B65 + ZB4BW363) | 0.097 | |
| | | | | | | ~ 110 to 120 50/60 Hz | White | XB4BW31G5 (ZB4BW0G15 + ZB4BW313) | 0.097 |
| | | | | | | Green | XB4BW33G5 (ZB4BW0G35 + ZB4BW333) | 0.097 | |
| | | | | | | Red | XB4BW34G5 (ZB4BW0G45 + ZB4BW343) | 0.097 | |
| | | | | | | Orange | XB4BW35G5 (ZB4BW0G55 + ZB4BW353) | 0.097 | |
| | | | | | | Blue | XB4BW36G5 (ZB4BW0G65 + ZB4BW363) | 0.097 | |
| | | | | | | ~ 230 to 240 50/60 Hz | White | XB4BW31M5 (ZB4BW0M15 + ZB4BW313) | 0.097 |
| | | | | | | Green | XB4BW33M5 (ZB4BW0M35 + ZB4BW333) | 0.097 | |
| Red | XB4BW34M5 (ZB4BW0M45 + ZB4BW343) | 0.097 | | | | | | | |
| Orange | XB4BW35M5 (ZB4BW0M55 + ZB4BW353) | 0.097 | | | | | | | |
| Blue | XB4BW36M5 (ZB4BW0M65 + ZB4BW363) | 0.097 | | | | | | | |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
Note: Refer to page 13 for Push-To-Test Pilot Light and Remote Test Pilot Light wiring diagrams.





Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return,
with integral LED

Assembly of other products using combined sub-assemblies, see page 52; accessories, see page 24





Illuminated push buttons with flush push (1)

| Shape of head | Type of push | Color | Reference | Weight kg |
|--|-----------------------------------|--------|-----------|-----------|
| Heads only (2) - With plain lens | | | | |
|  Protected LED | Flush | White | ZB4BW313 | 0.026 |
| | | Green | ZB4BW333 | 0.026 |
| | | Red | ZB4BW343 | 0.026 |
| | | Orange | ZB4BW353 | 0.026 |
| | | Blue | ZB4BW363 | 0.026 |
|  Protected LED | Flush with illuminated ring | White | ZB4BW913 | 0.026 |
| | | Green | ZB4BW933 | 0.026 |
| | | Red | ZB4BW943 | 0.026 |
| | | Orange | ZB4BW953 | 0.026 |
| | | Blue | ZB4BW963 | 0.026 |
|  Protected LED | Flush with clear boot | White | ZB4BW513 | 0.031 |
| | | Green | ZB4BW533 | 0.031 |
| | | Red | ZB4BW543 | 0.031 |
| | | Orange | ZB4BW553 | 0.031 |
| | | Blue | ZB4BW563 | 0.031 |
|  Protected LED | Flush for insertion of legend (3) | White | ZB4BA18 | 0.028 |
| | | Green | ZB4BA38 | 0.028 |
| | | Red | ZB4BA48 | 0.028 |
| | | Orange | ZB4BA58 | 0.028 |
| | | Blue | ZB4BA68 | 0.028 |

Heads only (2) - With grooved lens (4)

| | | | | |
|--|-------|--------|-----------|-------|
|  Protected LED | Flush | White | ZB4BW313S | 0.026 |
| | | Green | ZB4BW333S | 0.026 |
| | | Red | ZB4BW343S | 0.026 |
| | | Orange | ZB4BW353S | 0.026 |
| | | Blue | ZB4BW363S | 0.026 |

Illuminated push buttons with projecting push (1)

| Shape of head | Type of push | Color | Reference | Weight kg |
|--|--------------|--------|-----------|-----------|
| Heads only (2) - With plain lens | | | | |
|  Protected LED | Projecting | White | ZB4BW113 | 0.029 |
| | | Green | ZB4BW133 | 0.029 |
| | | Red | ZB4BW143 | 0.029 |
| | | Orange | ZB4BW153 | 0.029 |
| | | Blue | ZB4BW163 | 0.029 |
|  Protected LED | Projecting | White | ZB4BW113S | 0.026 |
| | | Green | ZB4BW133S | 0.026 |
| | | Red | ZB4BW143S | 0.026 |
| | | Orange | ZB4BW153S | 0.026 |
| | | Blue | ZB4BW163S | 0.026 |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: ZB4BW313 becomes ZB4BW3137.

Example 2: ZB4BW313S becomes ZB4BW313S7.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) Only for use with bodies comprised of a light source with integral LED.

(3) For legend ordering information, see page 62.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

For light module ordering information, see pages 49, 50 and 51.

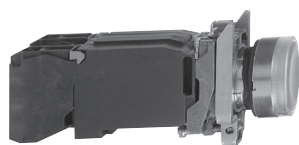
Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return,
with BA 9s base fitting

Assembly of other products using combined sub-assemblies, see page 54; accessories, see page 24

| Illuminated push buttons with flush push ⁽¹⁾ | | | | | | | |
|--|-------------|-----------------|-----|---------------------|---------------|-----------|--------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Shape of head | Description | Type of contact | | Supply voltage V | Color of push | Reference | Weight kg |
| | | N/O | N/C | | | | |

Complete units - With plain lens



XB4BW3545

| | | | | | | | | |
|--|---|--|---|-------------------------|-------------------------|--|--|-------|
| | Direct supply for bulb with BA 9s base fitting, 2.4 W max (bulb not included) | 1 | 1 | ≤ 250 | White | XB4BW3165 (ZB4BW065 + ZB4BW31) | 0.097 | |
| | | | | | Green | XB4BW3365 (ZB4BW065 + ZB4BW33) | 0.097 | |
| | | | | | Red | XB4BW3465 (ZB4BW065 + ZB4BW34) | 0.097 | |
| | | | | | Orange | XB4BW3565 (ZB4BW065 + ZB4BW35) | 0.097 | |
| | Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting (bulb included) | 1 | 1 | ~110 to 120 50/60 Hz | White | XB4BW3135 (ZB4BW035 + ZB4BW31) | 0.169 | |
| | | | | | Green | XB4BW3335 (ZB4BW035 + ZB4BW33) | 0.169 | |
| | | | | | Red | XB4BW3435 (ZB4BW035 + ZB4BW34) | 0.169 | |
| | | | | | Orange | XB4BW3535 (ZB4BW035 + ZB4BW35) | 0.169 | |
| | | ~ 230 50 Hz ~220 to 240 60 Hz | 1 | 1 | ~110 to 120 50/60 Hz | White | XB4BW3145 (ZB4BW045 + ZB4BW31) | 0.170 |
| | | | | | | Green | XB4BW3345 (ZB4BW045 + ZB4BW33) | 0.170 |
| | | | | | | Red | XB4BW3445 (ZB4BW045 + ZB4BW34) | 0.170 |
| | | | | | | Orange | XB4BW3545 (ZB4BW045 + ZB4BW35) | 0.170 |

Heads only ⁽²⁾ - With plain lens



ZB4BW33

| | | | | |
|--|--------------|--------|----------------|-------|
| | Flush | White | ZB4BW31 | 0.027 |
| | | Green | ZB4BW33 | 0.027 |
| | | Red | ZB4BW34 | 0.027 |
| | | Orange | ZB4BW35 | 0.027 |
| | | Blue | ZB4BW36 | 0.027 |
| | | Clear | ZB4BW37 | 0.027 |

Heads only ⁽²⁾ - With grooved lens ⁽³⁾

| | | | | |
|--|--------------|--------|-----------------|-------|
| | Flush | White | ZB4BW31S | 0.027 |
| | | Green | ZB4BW33S | 0.027 |
| | | Red | ZB4BW34S | 0.027 |
| | | Orange | ZB4BW35S | 0.027 |
| | | Blue | ZB4BW36S | 0.027 |
| | | Clear | ZB4BW37S | 0.027 |

Illuminated push buttons with projecting push ⁽¹⁾

Heads only ⁽²⁾ - With plain lens



ZB4BW14

| | | | | |
|--|-------------------|--------|----------------|-------|
| | Projecting | White | ZB4BW11 | 0.028 |
| | | Green | ZB4BW13 | 0.028 |
| | | Red | ZB4BW14 | 0.028 |
| | | Orange | ZB4BW15 | 0.028 |
| | | Blue | ZB4BW16 | 0.028 |
| | | Clear | ZB4BW17 | 0.028 |

Heads only ⁽²⁾ - With grooved lens ⁽³⁾

| | | | | |
|--|-------------------|--------|-----------------|-------|
| | Projecting | White | ZB4BW11S | 0.027 |
| | | Green | ZB4BW13S | 0.027 |
| | | Red | ZB4BW14S | 0.027 |
| | | Orange | ZB4BW15S | 0.027 |
| | | Blue | ZB4BW16S | 0.027 |
| | | Clear | ZB4BW17S | 0.027 |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4BW31** becomes **ZB4BW317**. Example 2: **ZB4BW31S** becomes **ZB4BW31S7**.

⁽¹⁾ Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24

⁽²⁾ Only for use with bodies comprised of a light source with BA9s base fitting bulb (incandescent, neon or LED).

⁽³⁾ For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons Multiple head push buttons, spring return

User assembly of other units, using body-contact assemblies, see page 48; combined sub-assemblies, see page 54



XB4BL73415



ZB4BA7121



ZB4BL7341



XB4BW737315



ZB4BW7A1721



ZB4BW7A3741

| Double-headed push buttons (1) | | | | | | |
|--|---|-----------------|-----|--|-------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Description | Type of contact | | Color and marking of caps (2) | Reference | Weight |
| | | | | | | kg |
| | | N/O | N/C | | | |
| Complete units | | | | | | |
| | 2 pushes (1 flush black + 1 projecting red) | 1 | 1 | White "I" on green background White "0" on red background | XB4BL73415 | 0.116 |
| Heads only | | | | | | |
| | 2 flush black pushes | | | White background + black background, unmarked | ZB4BA7120 | 0.056 |
| | | | | Black "I" on white background White "0" on black background | ZB4BA7121 | 0.056 |
| | | | | Green background + red background, unmarked | ZB4BA7340 | 0.056 |
| | | | | White "I" on green background White "0" on red background | ZB4BA7341 | 0.056 |
| | | | | Without cap (3) | ZB4BA79 | 0.056 |
| | 1 flush black push 1 projecting red push | | | Green background + red background, unmarked | ZB4BL7340 | 0.056 |
| | | | | White "I" on green background White "0" on red background | ZB4BL7341 | 0.056 |

| Double-headed push buttons + 1 white central pilot light block (1) | | | | | | |
|--|--|-----------------|-----|--|---------------------|---------------------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Description | Type of contact | | Color and marking of caps (2) | Pilot light voltage | Weight |
| | | | | | V | kg |
| | | N/O | N/C | | | |
| Complete units | | | | | | |
| | 1 flush black push 1 projecting red push 1 white central pilot light block | 1 | 1 | White "I" on green background White "0" on red background | 24 | XB4BW73731B5 0.130 |
| | | | | | 120 | XB4BW73731G5 0.130 |
| | | | | | 240 | XB4BW73731M5 0.130 |
| Heads only (5) | | | | | | |
| | 2 flush black pushes 1 clear central pilot light (4) | | | White background + black background, unmarked | | ZB4BW7A1720 0.056 |
| | | | | Black "I" on white background White "0" on black background | | ZB4BW7A1721 0.056 |
| | | | | Green background + red background, unmarked | | ZB4BW7A3740 0.056 |
| | | | | White "I" on green background White "0" on red background | | ZB4BW7A3741 0.056 |
| | | | | Black "↑" on white background White "↓" on black background | | ZB4BW7A1724 0.056 |
| | | | | Black "+" on white background Black "-" on white background | | ZB4BW7A1715 0.056 |
| | | | | Without cap (3) | | ZB4BW7A9 0.056 |
| | 1 flush black push 1 projecting red push 1 clear central pilot light (4) | | | Green background + red background, unmarked | | ZB4BW7L3740 0.056 |
| | | | | White "I" on green background White "0" on red background | | ZB4BW7L3741 0.056 |

Heads with black metal bezel

To order, add the suffix 7 to the references selected above. Example: **ZB4BA7120** becomes **ZB4BA71207**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(3) Caps to be ordered separately: see page 33.

(4) Color of centrally positioned pilot light determined by the color of the LED incorporated in the body sub-assembly.

(5) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

For light module ordering information, see pages 49, 50 and 51.




Harmony™ XB4 metal 22 mm push buttons

Multiple head push buttons, spring return


User assembly of other units, using body-contact assemblies, see page 48; combined sub-assemblies, see page 54

Triple-headed push buttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact | | | Color and marking of caps (3) | Reference | Weight |
|---------------|-------------|---|---|---|-------------------------------|-----------|--------|
| | |  |  |  | | | kg |
| | | N/O | N/C | N/O | | | |


Complete units

| | | | | | | | |
|---|--|---|---|---|---|--------------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | 1 | 1 | 1 | White "I" on green background White "II" on green background | XB4BA731327 | 0.128 |
| | | | | | Black "→" on white background White "←" on black background | XB4BA711237 | 0.128 |



XB4BA731327

Heads only

| | | | | | | | |
|---|--|--|--|--|---|-------------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | | | | White "I" on green background White "II" on green background | ZB4BA73132 | 0.056 |
| | | | | | White "←" on green background White "→" on green background | ZB4BA73133 | 0.056 |
| | | | | | White "↑" on green background White "↓" on green background | ZB4BA73134 | 0.056 |
| | | | | | White "+" on green background White "-" on green background | ZB4BA73135 | 0.056 |
| | | | | | Black "+" on white background Black "-" on white background | ZB4BA71115 | 0.056 |
| | | | | | Black "→" on white background White "←" on black background | ZB4BA71123 | 0.056 |
| | | | | | Black "↑" on white background White "↓" on black background | ZB4BA71124 | 0.056 |
| | | | | | White "↑" on black background White "↓" on black background | ZB4BA72124 | 0.056 |
| | | | | | Without cap (4) | ZB4BA791 | 0.056 |



ZB4BA73133



ZB4BA71124

Specific accessories for multiple-headed push buttons

| Description | Background color | Marking | Sold in lots of | Reference | Weight kg |
|--|--------------------------------------|-----------|-----------------|----------------|-----------|
| Caps only for clip-on mounting on double or triple-headed push buttons (5) | White | Unmarked | 10 | ZBA71 | 0.010 |
| | | "I" black | 10 | ZBA7131 | 0.010 |
| | | "→" black | 10 | ZBA7134 | 0.010 |
| | | "+" black | 10 | ZBA7138 | 0.010 |
| | Black | Unmarked | 10 | ZBA72 | 0.010 |
| | | "O" white | 10 | ZBA7232 | 0.010 |
| | | "+" white | 10 | ZBA7233 | 0.010 |
| | | "→" white | 10 | ZBA7235 | 0.010 |
| | Green | Unmarked | 10 | ZBA73 | 0.010 |
| | | "I" white | 10 | ZBA7331 | 0.010 |
| | | "+" white | 10 | ZBA7333 | 0.010 |
| | | "↑" white | 10 | ZBA7335 | 0.010 |
| Red | Unmarked | 10 | ZBA74 | 0.010 | |
| | "O" white | 10 | ZBA7432 | 0.010 | |
| Yellow | Unmarked | 10 | ZBA75 | 0.010 | |
| | Blue | Unmarked | 10 | ZBA76 | 0.010 |
| Clear silicone boots (6) | For 2 flush pushes | – | 10 | ZBA708 | 0.055 |
| | For 3 pushes | – | 10 | ZBA709 | 0.055 |
| | For 1 flush push + 1 projecting push | – | 10 | ZBA710 | 0.055 |

Heads with black metal bezel

To order, add the suffix **7** to the references selected above.

Example: **ZB4BA73132** becomes **ZB4BA731327**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately: see accessories on this page.

(5) Can be clipped-in at 90° steps, through 360°.

(6) Can be replaced without dismantling the head.



Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.





ZBA 709

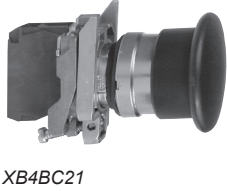
Harmony™ XB4 metal 22 mm push buttons Mushroom head push buttons, spring return

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

| Mushroom head push buttons (1) (2) | | | | | | |
|--|--------------|---|---|----------------|-------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of push | Type of contact | | Push Dia. (mm) | Color | Reference |
| | |  |  | | | |
| | | N/O | N/C | | | |
| | | | | | | Weight |
| | | | | | | kg |

| Complete units | | | | | | | |
|---|---------------|---|---|----|-------|---------------------------------------|-------|
|  | Mushroom head | 1 | – | 40 | Black | XB4BC21 (ZB4BZ101 + ZB4BC2) | 0.122 |

| Heads only | | | | | | | |
|---|---------------|--|--|---------------|--------|-----------------|-------|
|  | Mushroom head | | | 30 | Black | ZB4BC24 | 0.075 |
| | | | | | Green | ZB4BC34 | 0.075 |
| | | | | | Red | ZB4BC44 | 0.075 |
| | | | | | Yellow | ZB4BC54 | 0.075 |
| | | | | | Blue | ZB4BC64 | 0.075 |
| | | | | 40 | Black | ZB4BC2 | 0.074 |
| | | | | | Green | ZB4BC3 | 0.074 |
| | | | | | Red | ZB4BC4 | 0.074 |
| | | | | | Yellow | ZB4BC5 | 0.074 |
| | | | | | Blue | ZB4BC6 | 0.074 |
| | | | | 60 | Black | ZB4BR2 | 0.093 |
| | | | | | Green | ZB4BR3 | 0.093 |
| | | | | | Red | ZB4BR4 | 0.093 |
| | | | | | Yellow | ZB4BR5 | 0.093 |
| | | | | | Blue | ZB4BR6 | 0.093 |
| | | | | 60 (3) | Black | ZB4BR216 | 0.054 |
| | | | | Hemispherical | Green | ZB4BR316 | 0.054 |
| | | | | | Red | ZB4BR416 | 0.054 |
| | | | | | Yellow | ZB4BR516 | 0.054 |
| | | | | | Blue | ZB4BR616 | 0.054 |



XB4BC21



ZB4BC24



ZB4BC2



ZB4BR2




ZB4BR216



ZB4BW443

Illuminated mushroom head push buttons (1) (2)

| Integral LED | | | | | | |
|---|---------------|----------------|--|--------|-----------------|-----------|
| Shape of head | Type of push | Push Dia. (mm) | | Color | Reference | Weight kg |
|  | Mushroom head | 40 | | White | ZB4BW413 | 0.051 |
| | | | | Green | ZB4BW433 | 0.051 |
| | | | | Red | ZB4BW443 | 0.051 |
| | | | | Orange | ZB4BW453 | 0.051 |
| | | | | Blue | ZB4BW463 | 0.051 |



Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4BC24** becomes **ZB4BC247**.




(1) These push buttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.
(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head: 6.
(4) Only for use with bodies comprised of a light block with integral LED.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Mushroom head push buttons, latching

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

Mushroom head push buttons (1) (2)

| Shape of head | Type of reset | Push Dia. (mm) | Color | Reference | Weight kg |
|--|---|----------------|--------|-------------|-----------|
| Heads only | | | | | |
|  | Push-pull | 40 | Black | ZB4BT2 | 0.077 |
| | | 60 | Black | ZB4BX2 | 0.095 |
|  | Turn to release | 30 | Black | ZB4BS42 | 0.066 |
| | | 40 | Black | ZB4BS52 | 0.070 |
| | | 40 | Yellow | ZB4BS55 | 0.070 |
| | | 60 | Black | ZB4BS62 | 0.090 |
|  | Key release (key no. 455) (2 keys included with head) (3) | 30 | Black | ZB4BS72 | 0.066 |
| | | 40 | Black | ZB4BS12 (4) | 0.070 |
| | | 60 | Black | ZB4BS22 | 0.090 |



ZB4BT2




ZB4BS62



ZB4BS72

Illuminated mushroom head push buttons (1) (2)

Integral LED

| Shape of head | Type of reset | Push Dia. (mm) | Color | Reference | Weight kg |
|---|---------------|----------------|--------|-----------|-----------|
| Heads only | | | | | |
|  | Mushroom head | 40 | White | ZB4BW613 | 0.051 |
| | | | Green | ZB4BW633 | 0.051 |
| | | | Orange | ZB4BW653 | 0.051 |
| | | | Blue | ZB4BW663 | 0.051 |

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: ZB4BT2 becomes ZB4BT27.

(1) These push buttons and heads cannot be used for an Emergency Stop function.

Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:


- key no. 421E: add suffix 12 to the reference.

- key no. 458A: add suffix 10 to the reference.

- key no. 520E: add suffix 14 to the reference.

- key no. 3131A: add suffix 20 to the reference.

Example: To order a 40 mm black mushroom head for a latching push button, with release by key no. 421E, the reference becomes: ZB4BS1212.

(5) The symbol  indicates key withdrawal position(s).

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

For light module ordering information, see pages 49, 50 and 51.



Harmony™ XB4 metal 22 mm push buttons Emergency stop devices

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 67 and 68

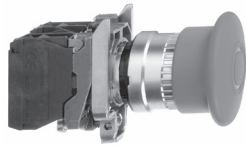
Mushroom head emergency stop trigger action and mechanical latching push buttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop trigger action and mechanical latching push buttons (1) (2)





Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of reset | Type of contact | | Push | | Reference | Weight kg |
|---------------|---------------|---|---|-----------|-------|-----------|--------------|
| | |  N/O |  N/C | Dia. (mm) | Color | | |

Complete units







XB4BT845

| | | | | | | | |
|--|---|---|---|----|-----|--|-------|
|  | Push-pull | 1 | 1 | 40 | Red | XB4BT845 (ZB4BZ105 + ZB4BT84) | 0.136 |
|  | Turn to release | 1 | 1 | 40 | Red | XB4BS8445 (ZB4BZ105 + ZB4BS844) | 0.130 |
| | | – | 2 | 40 | Red | XB4BS8444 (ZB4BZ104 + ZB4BS844) | 0.130 |
| | | 1 | 2 | 40 | Red | XB4BS84441 (ZB4BZ141 + ZB4BS844) | 0.140 |
|  | Key release (key no. 455)  (3) | 1 | 1 | 40 | Red | XB4BS9445 (ZB4BZ105 + ZB4BS944) | 0.170 |



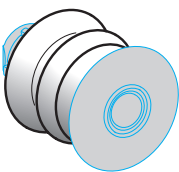
XB4BS9445

Heads only

| Shape of head | Type of reset | Push | | Reference | Weight kg |
|---|---|---------|-------|---------------------|--------------|
| | | Dia. mm | Color | | |
|  | Push-pull | 30 | Red | ZB4BT844 | 0.078 |
| | | 40 | Red | ZB4BT84 | 0.078 |
| | | 60 | Red | ZB4BX84 | 0.098 |
|  | Turn to release | 30 | Red | ZB4BS834 | 0.068 |
| | | 40 | Red | ZB4BS844 | 0.073 |
| | | 60 | Red | ZB4BS864 | 0.093 |
|  | Key release (key no. 455) 2 keys included with head (5)  (3) | 30 | Red | ZB4BS934 | 0.094 |
| | | 40 | Red | ZB4BS944 (4) | 0.098 |
| | | 60 | Red | ZB4BS964 | 0.118 |



ZB4BS834



ZBZ8

Bellows for harsh environments (IP 69K)


| For use in | Material | Color | Sold in lots of | Unit reference | Weight kg |
|--|----------|--------|-----------------|----------------|--------------|
| Environments subject to humidity, dust, high pressure cleaning, etc. | Silicone | Red | 2 | ZBZ48 | 0.009 |
| | EPDM | Black | 2 | ZBZ28 | 0.009 |
| | | Yellow | 2 | ZBZ58 | 0.009 |

Heads with black metal bezel

To order, add a figure 7 to the references selected above.
Example: **ZB4BT844** becomes **ZB4BT8447**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key no. 421E: add suffix **12** to the reference.
- key no. 458A: add suffix **10** to the reference.
- key no. 520E: add suffix **14** to the reference.
- key no. 3131A: add suffix **20** to the reference.
- key no. 4A185: add suffix **D** to the reference.

Example: To order a 40 mm red mushroom head for a trigger action and mechanical latching Emergency stop push button, with release by key no. 421E, the reference becomes: **ZB4BS94412**.



(5) For specific keys with other numbers, please consult your Regional Sales Office.

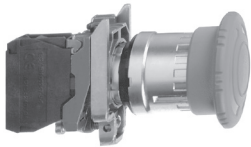
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons Emergency switching off devices




Assembly of other products using body/contact assemblies, see page 48; combined sub-assemblies, see page 52; accessories, see pages 62 and 68

Mushroom head emergency switching off mechanical latching push buttons conform to standards IEC60364-5-53 and EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

| Emergency switching off, mechanical latching push buttons ^{(1) (2)} | | | | | | |
|--|---------------|---|---|---------|-------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of reset | Type of contact | | Push | | Reference |
| | |  N/O |  N/C | Dia. mm | Color | |
| | | | | | | |
| Complete units | | | | | | |




XB4BS542

| | | | | | | | |
|---|------------------------------|---|---|----|-----|---|-------|
|  | Push-pull | – | 1 | 40 | Red | XB4BT42 (ZB4BZ102 + ZB4BT4) | 0.125 |
|  | Turn to release | – | 1 | 40 | Red | XB4BS542 (ZB4BZ102 + ZB4BS54) | 0.118 |
|  | Key release (key no. 455) | – | 1 | 40 | Red | XB4BS142 (ZB4BZ102 + ZB4BS14) | 0.133 |




ZB4BT4

| Heads only | | | | | | | |
|--|-----------|--|--|----|-----|----------------|-------|
|  | Push-pull | | | 30 | Red | ZB4BT44 | 0.077 |
| | | | | 40 | Red | ZB4BT4 | 0.077 |
| | | | | 60 | Red | ZB4BX4 | 0.095 |




ZB4BS64


| | | | | | | | |
|---|-----------------|--|--|----|-----|----------------|-------|
|  | Turn to release | | | 30 | Red | ZB4BS44 | 0.066 |
| | | | | 40 | Red | ZB4BS54 | 0.070 |
| | | | | 60 | Red | ZB4BS64 | 0.090 |



ZB4BS74

| | | | | | | | |
|---|--|--|--|----|-----|--------------------|-------|
|  | Key release (key no. 455) 2 keys included with head (5) | | | 30 | Red | ZB4BS74 | 0.066 |
| | | | | 40 | Red | ZB4BS14 (4) | 0.070 |
| | | | | 60 | Red | ZB4BS24 | 0.090 |

| Illuminated Emergency switching off, mechanical latching push buttons ⁽¹⁾ | | | | | | |
|--|---------------|---------|-------|-----------|--------|----|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of reset | Push | | Reference | Weight | kg |
| | | Dia. mm | Color | | | |

| | | | | | | | |
|---|-----------|--|--|----|-----|-----------------|-------|
| Heads only (6) | | | | | | | |
|  | Push-pull | | | 40 | Red | ZB4BW643 | 0.051 |


Heads with black metal bezel

To order, add a figure 7 to the references selected above.

Example: **ZB4BT4** becomes **ZB4BT47**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key no. 421E: add suffix 12 to the reference.

- key no. 458A: add suffix 10 to the reference.

- key no. 520E: add suffix 14 to the reference.

- key no. 3131A: add suffix 20 to the reference.

Example: To order a 40 mm red mushroom head for a mechanical latching Emergency switching off push button, with release by key no. 421E, the reference becomes: **ZB4BS1412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

For light module ordering information, see pages 49, 50 and 51.

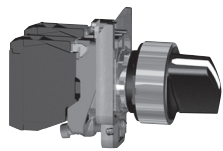
Harmony™ XB4 metal 22 mm push buttons

Selector switches with standard handle

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

| Selector switches with standard handle ⁽¹⁾ | | | | | | |
|--|------------------|-----------------|-----|-----------|------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference |
| | | N/O | N/C | Number | Type | |

Complete units



XB4BD33

| Shape of head | Type of operator | N/O | N/C | Number | Type | Reference | Weight |
|---------------|------------------------|-----|-----|------------------|----------------------------------|---------------------------------------|--------|
| | Standard handle, black | 1 | – | 2-position 90° | Stay put | XB4BD21 (ZB4BZ101 + ZB4BD2) | 0.095 |
| | | 1 | – | | Spring return from right to left | XB4BD41 (ZB4BZ101 + ZB4BD4) | 0.100 |
| | | 1 | 1 | | Stay put | XB4BD25 (ZB4BZ105 + ZB4BD2) | 0.095 |
| | | 2 | – | 3-position ± 45° | Stay put | XB4BD33 (ZB4BZ103 + ZB4BD3) | 0.095 |
| | | | | | Spring return to center | XB4BD53 (ZB4BZ103 + ZB4BD5) | 0.095 |

Heads only



ZB4BD4

| Shape of head | Type of operator | Number | Type | Reference | Weight |
|---------------|------------------------|------------------|------------------------------------|---------------|--------|
| | Standard handle, black | 2-position 90° | Stay put | ZB4BD2 | 0.040 |
| | | | Spring return from right to left | ZB4BD4 | 0.045 |
| | | 3-position ± 45° | Stay put | ZB4BD3 | 0.040 |
| | | | Spring return to center | ZB4BD5 | 0.040 |
| | | | Spring return from left to center | ZB4BD7 | 0.040 |
| | | | Spring return from right to center | ZB4BD8 | 0.040 |

Heads only with other colored handles

| | | |
|--|-------------------------|---|
| | Standard handle, white | add suffix 01 to the reference, example: ZB4BD201 |
| | Standard handle, green | add suffix 03 to the reference, example: ZB4BD203 |
| | Standard handle, red | add suffix 04 to the reference, example: ZB4BD204 |
| | Standard handle, yellow | add suffix 05 to the reference, example: ZB4BD205 |
| | Standard handle, blue | add suffix 06 to the reference, example: ZB4BD206 |

Heads with black metal bezel

For heads with standard black handle only. To order, add the suffix **7** to the references selected from above. Example: **ZB4BD2** becomes **ZB4BD27**.

⁽¹⁾ Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

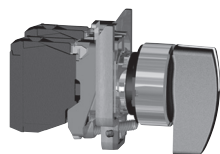
Selector switches with long handle:
normal and padlockable

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

| Selector switches with long handle (1) | | | | | | |
|--|------------------|-----------------|-----|-----------|------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference |
| | | N/O | N/C | Number | Type | |

kg

Complete units



ZB4BJ21

| | | | | | | | | | | |
|--|--------------------|---|---|----------------|----------|------------------|---------------------------------------|-------|---------------------------------------|-------|
| | Long handle, black | 1 | - | 2-position 90° | Stay put | | ZB4BJ21 (ZB4BZ101 + ZB4BJ2) | 0.096 | | |
| | | | | 2 | - | 3-position ± 45° | Stay put | | ZB4BJ33 (ZB4BZ103 + ZB4BJ3) | 0.096 |
| | | | | | | | Spring return to center | | ZB4BJ53 (ZB4BZ103 + ZB4BJ5) | 0.096 |

Heads only



ZB4BJ3

| | | | | | | | | | |
|--|--------------------|----------------|---|----------------|----------------------------------|------------------------------------|---------------|---------------|-------|
| | Long handle, black | 2-position 90° | - | 2-position 90° | Stay put | | ZB4BJ2 | 0.040 | |
| | | | | | Spring return from right to left | | ZB4BJ4 | 0.045 | |
| | | | | | 3-position ± 45° | Stay put | | ZB4BJ3 | 0.040 |
| | | | | | | Spring return to center | | ZB4BJ5 | 0.040 |
| | | | | | | Spring return from left to center | | ZB4BJ7 | 0.040 |
| | | | | | | Spring return from right to center | | ZB4BJ8 | 0.040 |



ZB4BJ291

| | | | | | | | | | | |
|-----------------------------------|------------------------------|-----------------|-------|----------------|----------------------------------|-----------------|------------------------------------|-----------------|-----------------|-------|
| | Long handle, padlockable (2) | 2-position 90° | - | 2-position 90° | Stay put | | ZB4BJ291 | 0.048 | | |
| | | | | | | ZB4BJ292 | 0.048 | | | |
| | | | | | | ZB4BJ294 | 0.048 | | | |
| | | | | | Spring return from right to left | | ZB4BJ491 | 0.054 | | |
| | | | | | 3-position ± 45° | Stay put | | ZB4BJ391 | 0.048 | |
| | | | | | | | | ZB4BJ392 | 0.048 | |
| | | | | | | | | ZB4BJ393 | 0.048 | |
| | | | | | | | | ZB4BJ394 | 0.048 | |
| | | | | | | | | ZB4BJ395 | 0.048 | |
| | | | | | | | | ZB4BJ396 | 0.048 | |
| | | | | | | | | ZB4BJ397 | 0.048 | |
| | | | | | | | Spring return to center | | ZB4BJ593 | 0.048 |
| | | | | | | | Spring return from right to center | | ZB4BJ891 | 0.048 |
| | | | | | | ZB4BJ893 | 0.048 | | | |
| | | | | | | ZB4BJ895 | 0.048 | | | |
| Spring return from left to center | | ZB4BJ792 | 0.048 | | | | | | | |
| | | ZB4BJ793 | 0.048 | | | | | | | |
| | | ZB4BJ796 | 0.048 | | | | | | | |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4BJ2** becomes **ZB4BJ27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) The symbol indicates the padlocking positions.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

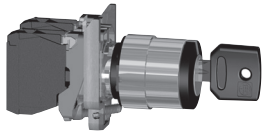
Harmony™ XB4 metal 22 mm push buttons

Key switches with key no. 455, 421E, 458A, 520E, 3131A

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

| Key switches ^{(1) (2)} | | | | | | |
|--|------------------|-----------------|-----|-----------|------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference |
| | | N/O | N/C | Number | Type | |

Complete units



XB4BG33

| Key switch with key no. 455 | Type of contact | Positions | Type | Reference | Weight |
|-----------------------------|---------------------------------------|-----------------------|---------------------------------------|---------------------------------------|--------|
| | | | | | |
| 1 | - | 2-position 90° | Stay put | XB4BG21 (ZB4BZ101 + ZB4BG2) | 0.153 |
| | | | | XB4BG41 (ZB4BZ101 + ZB4BG4) | 0.153 |
| | | Spring return to left | XB4BG61 (ZB4BZ101 + ZB4BG6) | 0.153 | |
| | | 3-position ± 45° | Stay put | XB4BG03 (ZB4BZ103 + ZB4BG0) | 0.153 |
| | XB4BG33 (ZB4BZ103 + ZB4BG3) | | 0.153 | | |

Heads only



ZB4BG0

| Key switch with key no. 455 ^{(3) (4)} | Type of contact | Positions | Type | Reference | Weight | | |
|--|-----------------|---------------------|----------------------------------|---------------------|----------------|----------------|-------|
| | | | | | | Number | Type |
| 2-position 90° | - | 2-position 90° | Stay put | ZB4BG2 | 0.098 | | |
| | | | | ZB4BG02 | 0.098 | | |
| | | | | ZB4BG4 | 0.098 | | |
| | | | Spring return from right to left | ZB4BG6 | 0.098 | | |
| | | | 3-position ± 45° | Stay put | ZB4BG0 | 0.098 | |
| | | | | | ZB4BG03 | 0.098 | |
| | | | | ZB4BG04 | 0.098 | | |
| | | | | ZB4BG3 | 0.098 | | |
| | | | | ZB4BG5 | 0.098 | | |
| | | | | ZB4BG9 | 0.098 | | |
| | | 3-position ± 45° | - | 3-position ± 45° | Stay put | ZB4BG09 | 0.098 |
| | | | | | | ZB4BG1 | 0.098 |
| | ZB4BG01 | | | | 0.098 | | |
| Spring return to center | ZB4BG7 | | | | 0.098 | | |
| Spring return from right to center | ZB4BG8 | | | | 0.098 | | |
| | ZB4BG05 | | | | 0.098 | | |
| | ZB4BG08 | 0.098 | | | | | |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above. Example: **ZB4BG2** becomes **ZB4BG27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) The symbol indicates key withdrawal position(s).

(3) Other key numbers:

- key no. 421E: add suffix 12 to the reference.
- key no. 458A: add suffix 10 to the reference.
- key no. 520E: add suffix 14 to the reference.
- key no. 3131A: add suffix 20 to the reference.

Example: For a switch head with key no. 421E, 2-position stay put, with key withdrawal from the left-hand position, the reference becomes: **ZB4BG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.











Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.









Harmony™ XB4 metal 22 mm push buttons




Key switches with key no. TEC10

Selector switches with knurled knob - Toggle switches

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

| Key switches with key TEC10 | | | | | | |
|---|-------------------------------|---|---|---|---------------------|---|
| Shape of head | Type of operator | Positions | | Reference | Weight kg | |
| | | Number | Type | | | |
| Heads only | | | | | | |
|  | Key switch with key no. TEC10 | 2-position 90° | Stay put |  | ZB4BG2TEC10 | 0.160 |
| | | | |  | ZB4BG4TEC10 | 0.160 |
| | | | Spring return from right to left |  | ZB4BG6TEC10 | 0.170 |
| | | | | 3-position ± 45° | Stay put |  |
| | |  | ZB4BG3TEC10 | | | 0.160 |
| | |  | ZB4BG5TEC10 | | | 0.160 |
| | | Spring return to center |  | | ZB4BG9TEC10 | 0.160 |
| | | |  | | ZB4BG7TEC10 | 0.170 |
| | | |  | | ZB4BG05TEC10 | 0.170 |

| Selector switches with knurled knob ⁽¹⁾ | | | | | | |
|---|--------------------|---------------------|----------|---|----------------|-------|
| Shape of head | Type of operator | Positions | | Reference | Weight kg | |
| | | Number | Type | | | |
| Heads only | | | | | | |
|  | Black knurled knob | 2-position 90° | Stay put |  | ZB4BD29 | 0.043 |
| | | | |  | ZB4BD49 | 0.050 |
| | | 3-position ± 45° | Stay put |  | ZB4BD39 | 0.040 |
| | | | |  | ZB4BD59 | 0.040 |
| | | | |  | ZB4BD79 | 0.040 |
| | | | |  | ZB4BD89 | 0.040 |
| | | | |  | | |

| Toggle switches ⁽¹⁾ | | | | | | |
|---|------------------|-------------------|----------|---|----------------|-------|
| Shape of head | Type of operator | Positions | | Reference | Weight kg | |
| | | Number | Type | | | |
| Heads only | | | | | | |
|  | Black lever | 2-position 90° | Stay put |  | ZB4BD28 | 0.026 |
| | | | |  | ZB4BD48 | 0.026 |

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.
Example: **ZB4BD29** becomes **ZB4BD297**.

For the references with key TEC10, add the 7 before TEC10.
Example: **ZB4BG2TEC10** becomes **ZB4BG27TEC10**.

⁽¹⁾ Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.



ZB4BD29



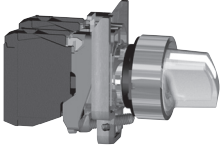



ZB4BD28

Harmony™ XB4 metal 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 52; accessories, see page 62

| Illuminated selector switches with standard handle, with integral LED ⁽¹⁾ | | | | | | | | | | | |
|---|---|---|---|----------------|-----------------------------------|--|---|-------------------------------------|--|---|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | | | | |
| Shape of head | Type of operator | Type of contact | Positions Number Type | Supply voltage | Color of handle | Reference | Weight | | | | |
| | |  N/O |  N/C | V | | | kg | | | | |
| Complete units | | | | | | | | | | | |
|  XB4BK123B5 |  | Standard handle | 1 | 1 | 2-position Stay put 90° | ~ 24 (50/60 Hz) | Green XB4BK123B5 (ZB4BW0B35 + ZB4BK1233) | 0.101 | | | |
| | | | | | | Red XB4BK124B5 (ZB4BW0B45 + ZB4BK1243) | 0.101 | | | | |
| | | | | | | Orange XB4BK125B5 (ZB4BW0B55 + ZB4BK1253) | 0.101 | | | | |
| | | | | | | ~ 110 to 120 (50/60 Hz) | Green XB4BK123G5 (ZB4BW0G35 + ZB4BK1233) | 0.101 | | | |
| | | | | | | Red XB4BK124G5 (ZB4BW0G45 + ZB4BK1243) | 0.101 | | | | |
| | | | | | | Orange XB4BK125G5 (ZB4BW0G55 + ZB4BK1253) | 0.101 | | | | |
| | | | | | | ~ 230 to 240 (50/60 Hz) | Green XB4BK123M5 (ZB4BW0M35 + ZB4BK1233) | 0.101 | | | |
| | | | | | | Red XB4BK124M5 (ZB4BW0M45 + ZB4BK1243) | 0.101 | | | | |
| | | | | | | Orange XB4BK125M5 (ZB4BW0M55 + ZB4BK1253) | 0.101 | | | | |
| | | | | | | 1 | 1 | 3-position Stay put ± 45° | ~ 24 (50/60 Hz) | Green XB4BK133B5 (ZB4BW0B35 + ZB4BK1333) | 0.101 |
| | | | | | | | | | Red XB4BK134B5 (ZB4BW0B45 + ZB4BK1343) | 0.101 | |
| | | | | | | | | | Orange XB4BK135B5 (ZB4BW0B55 + ZB4BK1353) | 0.101 | |
| | | | | | | | | | ~ 110 to 120 (50/60 Hz) | Green XB4BK133G5 (ZB4BW0G35 + ZB4BK1333) | 0.101 |
| | | | | | | | | | Red XB4BK134G5 (ZB4BW0G45 + ZB4BK1343) | 0.101 | |
| | | | | | | | | | Orange XB4BK135G5 (ZB4BW0G55 + ZB4BK1353) | 0.101 | |
| | | | | | | | | | ~ 230 to 240 (50/60 Hz) | Green XB4BK133M5 (ZB4BW0M35 + ZB4BK1333) | 0.101 |
| | | | | | | | | | Red XB4BK134M5 (ZB4BW0M45 + ZB4BK1343) | 0.101 | |
| | | | | | | | | | Orange XB4BK135M5 (ZB4BW0M55 + ZB4BK1353) | 0.101 | |



(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

Harmony™ XB4 metal 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 48; accessories, see page 62

Illuminated selector switches with standard handle, with integral LED (continued) (1)

| Shape of head | Type of operator | Positions | | Color of handle | Reference | Weight kg | |
|---|------------------|-------------------|------------------|---|------------------|------------------|-------|
| | | Number | Type | | | | |
| Heads only (2) | | | | | | | |
|  | Standard handle | 2-position 90° | Stay put |  | White | ZB4BK1213 | 0.036 |
| | | | | Green | ZB4BK1233 | 0.036 | |
| | | | | Red | ZB4BK1243 | 0.036 | |
| | | | | Orange | ZB4BK1253 | 0.036 | |
| | | | | Blue | ZB4BK1263 | 0.036 | |
| | | | | White | ZB4BK1413 | 0.037 | |
| | | | Green | ZB4BK1433 | 0.037 | | |
| | | | Red | ZB4BK1443 | 0.037 | | |
| | | | Orange | ZB4BK1453 | 0.037 | | |
| | | | Blue | ZB4BK1463 | 0.037 | | |
| | | | White | ZB4BK1313 | 0.036 | | |
| | | | Green | ZB4BK1333 | 0.036 | | |
| | | Red | ZB4BK1343 | 0.036 | | | |
| | | Orange | ZB4BK1353 | 0.036 | | | |
| | | Blue | ZB4BK1363 | 0.036 | | | |
| | | White | ZB4BK1513 | 0.036 | | | |
| | | Green | ZB4BK1533 | 0.036 | | | |
| | | Red | ZB4BK1543 | 0.036 | | | |
| | | Orange | ZB4BK1553 | 0.036 | | | |
| | | Blue | ZB4BK1563 | 0.036 | | | |
| | | White | ZB4BK1813 | 0.036 | | | |
| | | Green | ZB4BK1833 | 0.036 | | | |
| | | Red | ZB4BK1843 | 0.036 | | | |
| | | Orange | ZB4BK1853 | 0.036 | | | |
| Blue | ZB4BK1863 | 0.036 | | | | | |
| White | ZB4BK1713 | 0.036 | | | | | |
| Green | ZB4BK1733 | 0.036 | | | | | |
| Red | ZB4BK1743 | 0.036 | | | | | |
| Orange | ZB4BK1753 | 0.036 | | | | | |
| Blue | ZB4BK1763 | 0.036 | | | | | |



ZB4BK1343

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.
Example: **ZB4BK1213** becomes **ZB4BK12137**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

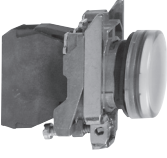
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons Pilot lights with integral LED

Assembly of other products using body/light assemblies, see page 56; accessories, see pages 60 and 62




Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Supply voltage V | Color | Reference | Weight kg |
|---|--|--|--|--|
| Complete units | | | | |
| ■ With plain lens | | | | |
|  Protected LED | ~ 24 (50/60 Hz) | White | XB4BVB1 (ZB4BVB1 + ZB4BV013) | 0.080 |
| | | Green | XB4BVB3 (ZB4BVB3 + ZB4BV033) | 0.080 |
| | | Red | XB4BVB4 (ZB4BVB4 + ZB4BV043) | 0.080 |
| | | Orange | XB4BVB5 (ZB4BVB5 + ZB4BV053) | 0.080 |
| | | Blue | XB4BVB6 (ZB4BVB6 + ZB4BV063) | 0.080 |
| | | ~ 110 to 120 (50/60 Hz) | White | XB4BVG1 (ZB4BVG1 + ZB4BV013) |
| Green | XB4BVG3 (ZB4BVG3 + ZB4BV033) | | 0.080 | |
| Red | XB4BVG4 (ZB4BVG4 + ZB4BV043) | | 0.080 | |
| Orange | XB4BVG5 (ZB4BVG5 + ZB4BV053) | | 0.080 | |
| Blue | XB4BVG6 (ZB4BVG6 + ZB4BV063) | | 0.080 | |
| ~ 230 to 240 (50/60 Hz) | White | | XB4BVM1 (ZB4BVM1 + ZB4BV013) | 0.080 |
| | Green | XB4BVM3 (ZB4BVM3 + ZB4BV033) | 0.080 | |
| | Red | XB4BVM4 (ZB4BVM4 + ZB4BV043) | 0.080 | |
| | Orange | XB4BVM5 (ZB4BVM5 + ZB4BV053) | 0.080 | |
| | Blue | XB4BVM6 (ZB4BVM6 + ZB4BV063) | 0.080 | |

XB4BVB5

Heads only (1)

| Shape of head | For use with body comprised of light source type | Color of lens | Reference | Weight kg |
|---|--|------------------|------------------|--------------|
| ■ With plain lens | | | | |
|  Protected LED | Integral LED only | White | ZB4BV013 | 0.026 |
| | | Green | ZB4BV033 | 0.026 |
| | | Red | ZB4BV043 | 0.026 |
| | | Orange | ZB4BV053 | 0.026 |
| | | Blue | ZB4BV063 | 0.026 |
| | | 5 colors (2) (3) | ZB4BV003 | 0.026 |
| ■ With plain lens, for insertion of legend (3) | | | | |
|  Protected LED | Integral LED only | White | ZB4BV013E | 0.026 |
| | | Green | ZB4BV033E | 0.026 |
| | | Red | ZB4BV043E | 0.026 |
| | | Orange | ZB4BV053E | 0.026 |
| | | Blue | ZB4BV063E | 0.026 |
| ■ With grooved lens (4) | | | | |
|  Protected LED | Integral LED only | White | ZB4BV013S | 0.026 |
| | | Green | ZB4BV033S | 0.026 |
| | | Red | ZB4BV043S | 0.026 |
| | | Orange | ZB4BV053S | 0.026 |
| | | Blue | ZB4BV063S | 0.026 |

ZB4BV063

ZB4BV043S

(1) Only for use with bodies comprised of a light source with integral LED.

(2) Head supplied with 5 different colored lenses (white, green, red, orange, blue) not fitted, for insertion of legend.

(3) For legend ordering information: see page 62.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For light module and mounting collar ordering information, see pages 49, 50 and 51.


Harmony™ XB4 metal 22 mm push buttons

Pilot lights with integral LED and
with BA 9s base fitting

Assembly of other products using body/light assemblies, see page 57; accessories, see pages 60 and 62

Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



| Shape of head | Supply voltage V | Color | Reference (1) | Weight kg |
|---|---------------------|--------|-----------------|--------------|
| Complete units - With plain lens | | | | |
|  | ~ 400 - 50 Hz (1) | White | XB4BV5B1 | 0.172 |
| | | Green | XB4BV5B3 | 0.172 |
| | | Red | XB4BV5B4 | 0.172 |
| | | Orange | XB4BV5B5 | 0.172 |
| | | Blue | XB4BV5B6 | 0.172 |



XB4BV5B●

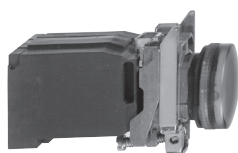
Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Supply voltage V | Color | Reference | Weight kg |
|--|---------------------------------------|--------|--------------------------------------|--------------|
| Complete units - With plain lens | | | | |
| ■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included) | | | | |
|  | ≤ 250 | White | XB4BV61 (ZB4BV6 + ZB4BV01) | 0.075 |
| | | Green | XB4BV63 (ZB4BV6 + ZB4BV03) | 0.075 |
| | | Red | XB4BV64 (ZB4BV6 + ZB4BV04) | 0.075 |
| | | Orange | XB4BV65 (ZB4BV6 + ZB4BV05) | 0.075 |
| ■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included) | | | | |
|  | ~ 110 to 120 - 50/60 Hz | White | XB4BV31 (ZB4BV3 + ZB4BV01) | 0.152 |
| | | Green | XB4BV33 (ZB4BV3 + ZB4BV03) | 0.152 |
| | | Red | XB4BV34 (ZB4BV3 + ZB4BV04) | 0.152 |
| | | Orange | XB4BV35 (ZB4BV3 + ZB4BV05) | 0.152 |
| | ~ 230 - 50 Hz ~ 220 to 240 - 60 Hz | White | XB4BV41 (ZB4BV4 + ZB4BV01) | 0.152 |
| | | Green | XB4BV43 (ZB4BV4 + ZB4BV03) | 0.152 |
| | | Red | XB4BV44 (ZB4BV4 + ZB4BV04) | 0.152 |
| | | Orange | XB4BV45 (ZB4BV4 + ZB4BV05) | 0.152 |





XB4BV64



XB4BV33

Heads only (2)

| Shape of head | For use with body comprised of light source type | Color of lens | Reference | Weight kg |
|---|---|---------------|-----------------|--------------|
| ■ With plain lens | | | | |
|  | With BA 9s base fitting | White | ZB4BV01 | 0.027 |
| | | Green | ZB4BV03 | 0.027 |
| | | Red | ZB4BV04 | 0.027 |
| | | Orange | ZB4BV05 | 0.027 |
| | | Blue | ZB4BV06 | 0.027 |
| | | Clear | ZB4BV07 | 0.027 |
| ■ With grooved lens (3) | | | | |
|  | With BA 9s base fitting | White | ZB4BV01S | 0.027 |
| | | Green | ZB4BV03S | 0.027 |
| | | Red | ZB4BV04S | 0.027 |
| | | Orange | ZB4BV05S | 0.027 |
| | | Blue | ZB4BV06S | 0.027 |
| | | Clear | ZB4BV07S | 0.027 |



ZB4BV04



ZB4BV06S

(1) To order ~ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8". Example: XB4BV5B1 becomes XB4BV8B1. To order ~ 550 to 600 V - 60 Hz blocks, please replace "5" by "9". Example: XB4BV5B1 becomes XB4BV9B1.

(2) Only for use with bodies comprised of a light source with BA 9s base fitting (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For light module and mounting collar ordering information, see pages 49, 50 and 51.


Harmony™ XB4 metal 22 mm push buttons

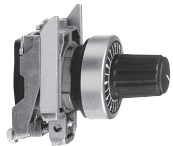
Push buttons for manual overload reset, hour counters, buzzers, fuse carrier

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62




XB4BA8●1

| Manual overload reset push buttons | | | | | |
|---|-----------|-----------------------|-------|-----------------|-----------|
| Shape of head | Travel mm | Actuation distance mm | Color | Reference | Weight kg |
|  | 10 | 6 to 16 | Black | XB4BA821 | 0.037 |
| | | | Red | XB4BA841 | 0.037 |
| | | | Blue | XB4BA861 | 0.037 |
| | | 16 to 26 | Black | XB4BA822 | 0.038 |
| | | | Red | XB4BA842 | 0.038 |
| | | | Blue | XB4BA862 | 0.038 |
| | 14 | 30 to 130 | Black | XB4BA921 | 0.058 |
| | | | Red | XB4BA941 | 0.058 |
| | | | Blue | XB4BA961 | 0.058 |
| | | 130 to 257 | Black | XB4BA922 | 0.071 |
| | | | Red | XB4BA942 | 0.071 |
| | | | Blue | XB4BA962 | 0.071 |



ZB4BD912

| Heads + mounting base for potentiometer (1) | | | | |
|---|---|---------------|-----------------|-----------|
| Shape of head | Description | For use with | Reference | Weight kg |
|  | For potentiometer with shaft length 45 to 50 mm | 6 mm shaft | ZB4BD912 | 0.080 |
| | | 6.35 mm shaft | ZB4BD922 | 0.080 |



XB5DS●

| Hour counters | | | |
|------------------------|-----------------------|---------------|-----------|
| Specifications | Supply voltage V | Reference | Weight kg |
| Indication 0 to 9999.9 | ~ 12 to 24 - 50/60 Hz | XB5DSB | 0.045 |
| | ~ 120 - 60 Hz | XB5DSG | 0.045 |
| | ~ 230 to 240 - 50 Hz | XB5DSM | 0.045 |



XB5KS●

| Annunciators (IP 40 NEMA 1) | | | |
|--|----------------------|---------------|-------|
| 85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 77) | ~ 24 - 50/60 Hz | XB5KSB | 0.035 |
| | ~ 120 - 50/60 Hz | XB5KSG | 0.035 |
| | ~ 230 to 240 - 50 Hz | XB5KSM | 0.035 |



XB5DT1S

| Fuse carrier | | | |
|--------------|------------------------------|-----------|-----------|
| Description | For use with | Reference | Weight kg |
| Fuse carrier | 5 x 20 mm fuse 6.3 A - 250 V | t | 0.022 |

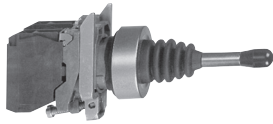
(1) Potentiometer not included.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

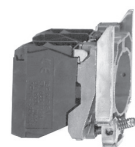
Joystick controllers, wobble sticks

Assembly of other products using accessories, see page 62



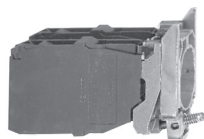
XD4PA12

| Joystick controllers (with 54 mm long operating shaft) (1) | | | | |
|--|--|--------------------------------|----------------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | |
| Description | Operation | Spring return to zero position | Reference | Weight kg |
| Complete products | | | | |
| 2-direction | 1 notch 1 N/O contact per direction | Without | XD4PA12 | 0.116 |
| | | With | XD4PA22 | 0.116 |
| 4-direction | 1 notch 1 N/O contact per direction | Without | XD4PA14 | 0.133 |
| | | With | XD4PA24 | 0.133 |



ZD4PA103

| Sub-assemblies for joystick controllers | | | |
|---|---|-----------------|-----------|
| Description | Functions | Reference | Weight kg |
| Complete body/contact assemblies | 2-direction | ZD4PA103 | 0.049 |
| | 4-direction | ZD4PA203 | 0.058 |
| Complete head assemblies with operating shaft | 2-direction, stay put | ZD4PA12 | 0.022 |
| | 2-direction, spring return to zero position | ZD4PA22 | 0.022 |
| | 4-direction, stay put | ZD4PA14 | 0.022 |
| | 4-direction, spring return to zero position | ZD4PA24 | 0.022 |

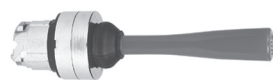


ZD4PA203




ZD4PA12

| | | | | |
|----------------------------------|-------------|----------------------------------|----------------|-------|
| Legends 30 x 48 mm for engraving | 2-direction | Black one side Red reverse | ZBG2201 | 0.001 |
| | | White one side Yellow reverse | ZBG2401 | 0.001 |
| Legends 48 x 48 mm for engraving | 4-direction | Black one side Red reverse | ZBG4201 | 0.002 |
| | | White one side Yellow reverse | ZBG4401 | 0.002 |



ZB4BB2

| Wobble stick heads | | | | |
|---|--------------------------------|-------|---------------|-----------|
| Shape of head | For use with | Color | Reference | Weight kg |
|  | Omnidirectional, spring return | Black | ZB4BB2 | 0.058 |
| | | Red | ZB4BB4 | 0.058 |

(1) Must not be used with standard contact blocks ZBE10● (single) or ZBE20● (double).
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Other versions Joystick controllers and complete body/contact assemblies for joystick controllers with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies
Screw clamp terminal connections

To combine with heads, see pages 26 to 47



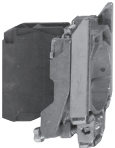
ZB4BZ009



ZBE101



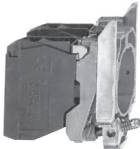
ZBE203



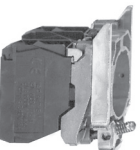
ZB4BZ101



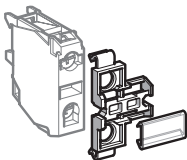
ZBE201



ZB4BZ106



ZB4BZ107



ZBZ001

| Body/mounting collar | | | |
|-------------------------------------|-----------------|----------------|-----------|
| For use with | Sold in lots of | Unit reference | Weight kg |
| Electrical block (contact or light) | 10 | ZB4BZ009 | 0.038 |

Contact functions (1) Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Contacts for standard applications | | | | | | |
|------------------------------------|----------------------------------|-----|-----|-----------------|----------------|-----------|
| Description | Type of contact | | | Sold in lots of | Unit reference | Weight kg |
| | | N/O | N/C | | | |
| Contact blocks | Single | 1 | – | 5 | ZBE101 | 0.011 |
| | | – | 1 | 5 | ZBE102 | 0.011 |
| | Double | 2 | – | 5 | ZBE203 | 0.020 |
| | | – | 2 | 5 | ZBE204 | 0.020 |
| | Single with body/mounting collar | 1 | 1 | 5 | ZBE205 | 0.020 |
| | | 1 | – | 1 | ZB4BZ101 | 0.053 |
| | | – | 1 | 1 | ZB4BZ102 | 0.053 |
| | | 2 | – | 1 | ZB4BZ103 | 0.062 |
| | | – | 2 | 1 | ZB4BZ104 | 0.062 |
| | | 1 | 1 | 1 | ZB4BZ105 | 0.062 |
| | | 1 | 2 | 1 | ZB4BZ141 | 0.072 |

| Contacts for specific applications | | | | | | | | |
|------------------------------------|-----------------|---|------------------------|-----|-----------------|----------------|-----------|-------|
| Application | Type of contact | Description | | | Sold in lots of | Unit reference | Weight kg | |
| | | | N/O | N/C | | | | |
| Low power switching | Single | Standard | 1 | – | 5 | ZBE1016 | 0.012 | |
| | | | – | 1 | 5 | ZBE1026 | 0.012 | |
| | | Dusty environment (2) (IP5X, 50 µm dust) | 1 | – | 5 | ZBE1016P | 0.012 | |
| | | | – | 1 | 5 | ZBE1026P | 0.012 | |
| Staggered contacts | Single | Early make N/O | 1 | – | 5 | ZBE201 | 0.011 | |
| | | | – | 1 | 5 | ZBE202 | 0.011 | |
| | | Single with body/ mounting collar | Overlapping N/O+N/C | 1 | 1 | 5 | ZB4BZ106 | 0.062 |
| | | | Staggered N/O+N/O | 2 | – | 5 | ZB4BZ107 | 0.062 |

Clip-on legend holder, sheet of blank legends and labelling software

| Description | Sold in lots of | Unit reference | Weight kg |
|--|-----------------|----------------|-----------|
| Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB4B control or signaling unit | 10 | ZBZ001 | 0.001 |
| Sheet of 50 blank legends for legend holder ZBZ001 | 10 | ZBY001 | 0.023 |

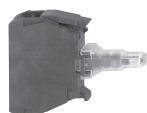
(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 24.
 (2) It is not possible to fit an additional contact block on the back of these contact blocks.
 (3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
 (4) This legend holder is not compatible with high power switching contacts.

Harmony™ XB4 metal 22 mm push buttons

Light blocks

“Test light” - Protection

To combine with heads, see page 30



ZBVB●

Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

| Description | Supply voltage V | Color of light source | Sold in lots of | Unit reference | Weight kg |
|--|----------------------------|--------------------------|--------------------|-------------------|--------------|
| Integral LED (to combine with heads for integral LED) | ~ 12 (50/60 Hz) | White | 5 | ZBVJ1 | 0.017 |
| | | Green | 5 | ZBVJ3 | 0.017 |
| | | Red | 5 | ZBVJ4 | 0.017 |
| | | Orange | 5 | ZBVJ5 | 0.017 |
| | | Blue | 5 | ZBVJ6 | 0.017 |
| | | ~ 24 (50/60 Hz) | White | 5 | ZBVB1 |
| Green | 5 | | ZBVB3 | 0.017 | |
| Red | 5 | | ZBVB4 | 0.017 | |
| Orange | 5 | | ZBVB5 | 0.017 | |
| Blue | 5 | | ZBVB6 | 0.017 | |
| ~ 24 to 120 (50/60 Hz) | White | | 5 | ZVBVG1 | 0.017 |
| | Green | 5 | ZVBVG3 | 0.017 | |
| | Red | 5 | ZVBVG4 | 0.017 | |
| | Orange | 5 | ZVBVG5 | 0.017 | |
| | Blue | 5 | ZVBVG6 | 0.017 | |
| | ~ 110 to 120 (50/60 Hz) | White | 5 | ZBVG1 | 0.017 |
| Green | | 5 | ZBVG3 | 0.017 | |
| Red | | 5 | ZBVG4 | 0.017 | |
| Orange | | 5 | ZBVG5 | 0.017 | |
| Blue | | 5 | ZBVG6 | 0.017 | |
| ~ 230 to 240 (50/60 Hz) | | White | 5 | ZBVM1 | 0.017 |
| | Green | 5 | ZBVM3 | 0.017 | |
| | Red | 5 | ZBVM4 | 0.017 | |
| | Orange | 5 | ZBVM5 | 0.017 | |
| | Blue | 5 | ZBVM6 | 0.017 | |

Protected
LED

ZBV 5B



ZBZG156



ZBZM156



ZBZV●

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

| Description | Supply voltage V | Color of light source | Sold in lots of | Unit reference | Weight kg |
|--|---------------------|----------------------------|--------------------|-------------------|--------------|
| Integral LED (to combine with heads for integral LED) | ~ 24 (50/60 Hz) | White | 5 | ZBV18B1 | 0.017 |
| | | Green | 5 | ZBV18B3 | 0.017 |
| | | Red | 5 | ZBV18B4 | 0.017 |
| | | Orange | 5 | ZBV18B5 | 0.017 |
| | | Blue | 5 | ZBV18B6 | 0.017 |
| | | ~ 110 to 120 (50/60 Hz) | White | 5 | ZBV18G1 |
| Green | 5 | | ZBV18G3 | 0.017 | |
| Red | 5 | | ZBV18G4 | 0.017 | |
| Orange | 5 | | ZBV18G5 | 0.017 | |
| Blue | 5 | | ZBV18G6 | 0.017 | |
| ~ 230 to 240 (50/60 Hz) | White | | 5 | ZBV18M1 | 0.017 |
| | Green | 5 | ZBV18M3 | 0.017 | |
| | Red | 5 | ZBV18M4 | 0.017 | |
| | Orange | 5 | ZBV18M5 | 0.017 | |
| | Blue | 5 | ZBV18M6 | 0.017 | |

Protected
LED

Transformer blocks for 24 V light blocks

| For use with | Supply voltage V | Description | Reference | Weight kg |
|--------------------------------|---------------------|----------------------------|-----------|--------------|
| Light blocks with integral LED | ~ 400 V - 50 Hz | Transformer 400 V - 24 V ~ | ZBV5B (1) | 0.090 |

Light blocks for “remote test” function

| | | | | |
|--------------------------------|----------------------------|--------------------------------------|-------------|-------|
| Light blocks | ~ 12 and 24 ~ 24 to 120 | Single module, 1 connecting wire | ZBZG156 (2) | 0.010 |
| Light blocks with integral LED | ~ 48 to 230 | Double module, with connecting wires | ZBZM156 (3) | 0.010 |

LED suppressors

| For use with | Supply voltage V | Level of protection | Reference | Weight kg |
|---|---------------------|------------------------|-----------|--------------|
| Light blocks with integral LED fitted with screw clamp terminal connections | ~ 120 | 25 to 120 VA | ZBZVG | 0.010 |
| | ~ 230 | 30 to 230 VA | ZBZVM | 0.010 |

(1) To order ~ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8": ZBV 5B becomes ZBV 8B. To order ~ 550 to 600 V - 60 Hz transformer blocks, please replace "5" by "9": ZBV 5B becomes ZBV 9B.

(2) Block for use with ~ light blocks with integral LED types ZBVJ●, ZBVB●, ZVBVG● or with direct supply light block for BA 9s bulb, ZBV6.

(3) Block for use ~ light blocks integral LED types ZBVG●, ZBVM●, see connection on page 72.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies
Spring clamp terminal connections

To combine with heads, see pages 26 to 47



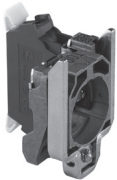
ZB4BZ009

| Body/mounting collar | | | | |
|-------------------------------------|-----------------|----------------|-----------|--|
| For use with | Sold in lots of | Unit reference | Weight kg | |
| Electrical block (contact or light) | 10 | ZB4BZ009 | 0.038 | |



ZBE 1015

| Contact functions | | | | | | |
|---------------------------------------|----------------------------------|---------------------|-----------|-----------------|----------------|-----------|
| Spring clamp terminal connections (1) | | | | | | |
| Contacts for standard applications | | | | | | |
| Description | Type of contact | Terminal connection | | Sold in lots of | Unit reference | Weight kg |
| | | N/O | N/C | | | |
| Contact blocks | Single | 1 | – | 4 | ZBE1015 | 0.011 |
| | | – | 1 | 4 | ZBE1025 | 0.011 |
| | Single with body/mounting collar | 1 | – | 1 | ZB4BZ1015 | 0.053 |
| | | – | 1 | 1 | ZB4BZ1025 | 0.053 |
| | | 2 | – | 1 | ZB4BZ1035 | 0.062 |
| | | – | 2 | 1 | ZB4BZ1045 | 0.062 |
| 1 | 1 | 1 | ZB4BZ1055 | 0.062 | | |

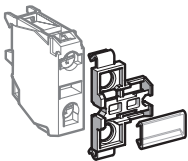


ZB4BZ1015

| Light blocks | | | | | |
|--|----------------------------|----------------------------|----------------------------|----------------|-----------|
| Spring clamp terminal connections (1) | | | | | |
| Description | Supply voltage V | Color of light source | Sold in lots of | Unit reference | Weight kg |
| Integral LED (to combine with heads for integral LED) | ≈ 12 (50/60 Hz) | White | 4 | ZBVJ15 | 0.016 |
| | | Green | 4 | ZBVJ35 | 0.016 |
| | | Red | 4 | ZBVJ45 | 0.016 |
| | | Orange | 4 | ZBVJ55 | 0.016 |
| | | Blue | 4 | ZBVJ65 | 0.016 |
| | | protected LED | ≈ 24 (50/60 Hz) | White | 4 |
| Green | 4 | | | ZBVB35 | 0.016 |
| Red | 4 | | | ZBVB45 | 0.016 |
| Orange | 4 | | | ZBVB55 | 0.016 |
| Blue | 4 | | | ZBVB65 | 0.016 |
| ~ 110 to 120 (50/60 Hz) | ~ 110 to 120 (50/60 Hz) | | | White | 4 |
| | | Green | 4 | ZBVG35 | 0.016 |
| | | Red | 4 | ZBVG45 | 0.016 |
| | | Orange | 4 | ZBVG55 | 0.016 |
| | | Blue | 4 | ZBVG65 | 0.016 |
| | | ~ 230 to 240 (50/60 Hz) | ~ 230 to 240 (50/60 Hz) | White | 4 |
| Green | 4 | | | ZBVM35 | 0.016 |
| Red | 4 | | | ZBVM45 | 0.016 |
| Orange | 4 | | | ZBVM55 | 0.016 |
| Blue | 4 | | | ZBVM65 | 0.016 |



ZBV B35



ZBZ001

| Sheet of 50 blank legends | | | | |
|---------------------------|-----------------|----------------|-----------|--|
| For use with | Sold in lots of | Unit reference | Weight kg | |
| Legend holder ZBZ001 | 10 | ZBY001 | 0.023 | |

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

Harmony™ XB4 metal 22 mm push buttons

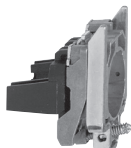
Body/contact assemblies

For printed circuit board

To combine with heads, see pages 26 to 47



ZB4BZ009



ZB4BZ079 + ZB4BZ009



ZBZ010



ZBE701



ZBE702



ZBVB7

Body/mounting collar and accessories specifically for printed circuit board mounting ⁽¹⁾

Accessories required when using adaptor (socket) ZBZ010



| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|----------------|-----------|
| Body/mounting collar | Electrical block (contact or light) | 10 | ZB4BZ009 | 0.006 |
| Mounting collar/pillar | Printed circuit board support (mounting screw ZBZ006 to be ordered separately) | 10 | ZB4BZ079 | 0.003 |
| Mounting screw for printed circuit board | Mounting collar/pillar ZB4BZ079 | 10 | ZBZ006 | 0.011 |

Adapter (socket) ⁽¹⁾



| For use with | Thickness of printed circuit board (mm) | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|---|-----------------|----------------|-----------|
| Electrical block (contact or light) | 1.6 ± 0.2 | 10 | ZBZ010 | 0.008 |
| | 2.2 ± 0.2 | 10 | ZBZ011 | 0.008 |
| | 3.2 ± 0.2 | 10 | ZBZ012 | 0.008 |

Contact functions ⁽¹⁾

Contacts for standard applications

| Description | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|--|---|-----------------|----------------|-----------|
| Contact blocks | Single | 1 | – | 5 | ZBE701 | 0.011 |
| | | – | 1 | 5 | ZBE702 | 0.011 |

Contacts for specific applications

| Application | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|---------------------|-----------------|---|--|-----------------|----------------|-----------|
| Low power switching | Single | 1 | – | 5 | ZBE7016 | 0.012 |
| | | – | 1 | 5 | ZBE7026 | 0.012 |

Light blocks ⁽¹⁾

| Description | Supply voltage V | Color of LED | Sold in lots of | Unit reference | Weight kg |
|---|------------------|--------------|-----------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz) | White | 5 | ZBVB17 | 0.004 |
| | | Green | 5 | ZBVB37 | 0.004 |
| | | Red | 5 | ZBVB47 | 0.004 |
| | | Orange | 5 | ZBVB57 | 0.004 |
| | | Blue | 5 | ZBVB67 | 0.004 |











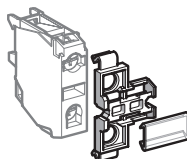
Protected LED

⁽¹⁾ For details of support drilling and of printed circuit board: see page 72

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies
Faston® connectors

To combine with heads, see pages 26 to 47

| Contact functions ⁽¹⁾ | | | | | | | |
|--|---|--|---|---|--------------------------|-------------------------|-----------|
| Faston connectors (6.35 or 2 x 2.8 mm) (Schneider Electric anti-retightening system) | | | | | | | |
| Contacts for standard applications | | | | | | | |
| Description | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg | |
|  ZBE 1023 | Single | 1 | – | 5 | ZBE1013 | 0.011 | |
| | | – | 1 | 5 | ZBE1023 | 0.011 | |
| | Double | 2 | – | 5 | ZBE2033 | 0.020 | |
| | | – | 2 | 5 | ZBE2043 | 0.020 | |
| | | 1 | 1 | 5 | ZBE2053 | 0.020 | |
| | Single with body/mounting collar | 1 | – | 1 | ZB4BZ1013 ⁽²⁾ | 0.053 | |
| | | – | 1 | 1 | ZB4BZ1023 ⁽²⁾ | 0.053 | |
| | | 2 | – | 1 | ZB4BZ1033 | 0.062 | |
| | | – | 2 | 1 | ZB4BZ1043 | 0.062 | |
| | | 1 | 1 | 1 | ZB4BZ1053 | 0.062 | |
|  ZBE 2043 | | | | | | | |
|  ZB4BZ1043 | | | | | | | |
| Contacts for specific applications | | | | | | | |
| Application | Type of contact | Description |  |  | Sold in lots of | Unit reference | Weight kg |
| Low power switching | Single | Standard | 1 | – | 5 | ZBE10163 ⁽²⁾ | 0.012 |
| | | | – | 1 | 5 | ZBE10263 ⁽²⁾ | 0.012 |
| | Dusty environments ⁽³⁾ (IP5X, 50 µm dust) | 1 | – | 5 | ZBE1016P3 ⁽²⁾ | 0.012 | |
| | | – | 1 | 5 | ZBE1026P3 ⁽²⁾ | 0.012 | |
| Staggered contacts | Single | Early make  | 1 | – | 5 | ZBE2013 ⁽²⁾ | 0.011 |
| | | Late break  | – | 1 | 5 | ZBE2023 ⁽²⁾ | 0.011 |
| | | N/C | | | | | |
| High power switching | Single | Standard ⁽⁴⁾ | 1 | – | 1 | ZBE5013 | 0.021 |
| | | | – | 1 | 1 | ZBE5023 | 0.021 |
| | | | 2 | – | 1 | ZBE5033 | 0.033 |
| | | | – | 2 | 1 | ZBE5043 | 0.033 |
| | | | 1 | 1 | 1 | ZBE5053 | 0.033 |
|  ZBE 5043 | | | | | | | |
|  ZBZ001 | | | | | | | |
| Clip-on legend holder for electrical blocks with screw clamp terminal connections ⁽⁵⁾ | | | | | | | |
| For use with | Sold in lots of | | | Unit reference | Weight kg | | |
| Identification of an XB4B control or signaling unit | 10 | | | ZBZ001 | 0.001 | | |
| Sheet of 50 blank legends | | | | | | | |
| Legend holder ZBZ001 | 10 | | | ZBY001 | 0.023 | | |

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
 (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9. Example: ZBE1013 becomes ZBE1019.
 (3) It is not possible to fit an additional contact block on the back of these contact blocks.
 (4) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
 (5) This legend holder is not compatible with high power switching contact blocks.

Harmony™ XB4 metal 22 mm push buttons Body/contact assemblies Plug-in connector

To combine with heads, see pages 26 to 47



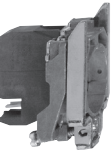
ZB4BZ009



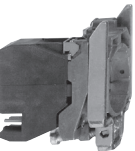
ZBE1014



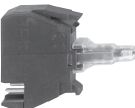
ZBE1024



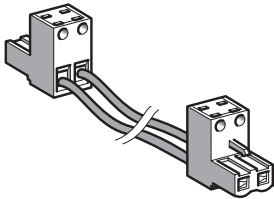
ZB4BZ1014



ZB4BZ1024



ZBVB4



APE1C2250

Body/mounting collar

| For use with | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10 | ZB4BZ009 | 0.038 |

Contact functions

Plug-in connector (1)

Contacts for standard applications

| Description | Type of contact | Symbol | | Sold in lots of | Unit reference | Weight kg |
|----------------|----------------------------------|--------|-----|-----------------|----------------|-----------|
| | | N/O | N/C | | | |
| Contact blocks | Single | 1 | – | 5 | ZBE1014 | 0.011 |
| | | – | 1 | 5 | ZBE1024 | 0.011 |
| Contact blocks | Single with body/mounting collar | 1 | – | 1 | ZB4BZ1014 | 0.050 |
| | | – | 1 | 1 | ZB4BZ1024 | 0.050 |
| | | 2 | – | 1 | ZB4BZ1034 | 0.058 |
| | | – | 2 | 1 | ZB4BZ1044 | 0.058 |
| | | 1 | 1 | 1 | ZB4BZ1054 | 0.058 |
| | | 1 | 2 | 1 | ZB4BZ1414 | 0.064 |

Light blocks

Plug-in connector

| Description | Supply voltage (V) | Color of light source | Sold in lots of | Unit reference | Weight kg |
|--|--------------------|----------------------------|-----------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz) | White | 5 | ZBVB14 | 0.016 |
| | | Green | 5 | ZBVB34 | 0.016 |
| | | Red | 5 | ZBVB44 | 0.016 |
| | | Orange | 5 | ZBVB54 | 0.016 |
| | | Blue | 5 | ZBVB64 | 0.016 |
| | | ~ 110 to 120 (50/60 Hz) | White | White | 5 |
| Green | 5 | | | ZBVG34 | 0.016 |
| Red | 5 | | | ZBVG44 | 0.016 |
| Orange | 5 | | | ZBVG54 | 0.016 |
| Blue | 5 | | | ZBVG64 | 0.016 |
| ~ 230 to 240 (50/60 Hz) | White | | | White | 5 |
| | | Green | 5 | ZBVM34 | 0.016 |
| | | Red | 5 | ZBVM44 | 0.016 |
| | | Orange | 5 | ZBVM54 | 0.016 |
| | | Blue | 5 | ZBVM64 | 0.016 |



Connecting cables and connector

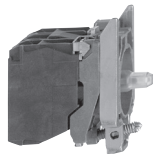
| Description | Number of connectors | Wire c.s.a. mm ² | Length mm | Sold in lots of | Unit reference | Weight kg |
|---|----------------------|-----------------------------|-----------|-----------------|----------------|-----------|
| Cables with connectors 2-pin, 5.08 mm pitch | 1 | 0.75 | 500 | 8 | APE1C2150 | 0.120 |
| | 2 | 0.75 | 500 | 8 | APE1C2250 | 0.180 |
| Spring terminal connector 2-pin, 5.08 mm pitch | – | 0.2 to 2.5 | – | 10 | APE1PRE21 | 0.003 |

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks
with integral LED

To combine with heads, see pages 29 to 43; contacts, see page 48



ZB4BW0...3

| Complete body/contact assemblies and light blocks ⁽¹⁾ | | | | | | | |
|--|----------------------------|-----------------|-----|-----------------------|-----------|-----------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight | |
| | | N/O | N/C | | | | |
| | V | | | | | kg | |
| Direct supply | | | | | | | |
| Integral LED | ~ 24 (50/60 Hz) | 1 | - | White | ZB4BW0B11 | 0.064 | |
| | | | | Green | ZB4BW0B31 | 0.064 | |
| Protected LED | | | | Red | ZB4BW0B41 | 0.064 | |
| | | | | Orange | ZB4BW0B51 | 0.064 | |
| | | | | Blue | ZB4BW0B61 | 0.064 | |
| | | | | | | | |
| | | | 1 | White | ZB4BW0B12 | 0.064 | |
| | | | | Green | ZB4BW0B32 | 0.064 | |
| | | | | Red | ZB4BW0B42 | 0.064 | |
| | | | | Orange | ZB4BW0B52 | 0.064 | |
| | | | | Blue | ZB4BW0B62 | 0.064 | |
| | | | 2 | White | ZB4BW0B13 | 0.074 | |
| | | | | Green | ZB4BW0B33 | 0.074 | |
| | | | | Red | ZB4BW0B43 | 0.074 | |
| | | | | Orange | ZB4BW0B53 | 0.074 | |
| | | | | Blue | ZB4BW0B63 | 0.074 | |
| | | | 1 | White | ZB4BW0B15 | 0.074 | |
| | | | | Green | ZB4BW0B35 | 0.074 | |
| | | | | Red | ZB4BW0B45 | 0.074 | |
| | | | | Orange | ZB4BW0B55 | 0.074 | |
| | | | | Blue | ZB4BW0B65 | 0.074 | |
| | ~ 110 to 120 (50/60 Hz) | 1 | - | White | ZB4BW0G11 | 0.064 | |
| | | | | Green | ZB4BW0G31 | 0.064 | |
| | | | | Red | ZB4BW0G41 | 0.064 | |
| | | | | Orange | ZB4BW0G51 | 0.064 | |
| | | | | Blue | ZB4BW0G61 | 0.064 | |
| | | | | 1 | White | ZB4BW0G12 | 0.064 |
| | | | | | Green | ZB4BW0G32 | 0.064 |
| | | | | | Red | ZB4BW0G42 | 0.064 |
| | | | | | Orange | ZB4BW0G52 | 0.064 |
| | | | | | Blue | ZB4BW0G62 | 0.064 |
| | | 2 | - | White | ZB4BW0G13 | 0.074 | |
| | | | | Green | ZB4BW0G33 | 0.074 | |
| | | | | Red | ZB4BW0G43 | 0.074 | |
| | | | | Orange | ZB4BW0G53 | 0.074 | |
| | | | | Blue | ZB4BW0G63 | 0.074 | |
| | | 1 | 1 | White | ZB4BW0G15 | 0.074 | |
| | | | | Green | ZB4BW0G35 | 0.074 | |
| | | | | Red | ZB4BW0G45 | 0.074 | |
| | | | | Orange | ZB4BW0G55 | 0.074 | |
| | | | | Blue | ZB4BW0G65 | 0.074 | |



Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 48.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks
with integral LED

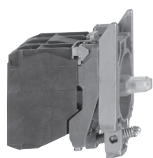
To combine with heads, see pages 29 to 43; contacts, see page 48

| Complete body/contact assemblies and light blocks ⁽¹⁾ (continued) | | | | | | |
|--|----------------------------|---|---|-----------------------|-----------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight |
| | V |  |  | | | kg |
| | | N/O | N/C | | | |
| Direct supply (continued) | | | | | | |
| Integral LED | ~ 230 to 240 (50/60 Hz) | 1 | – | White | ZB4BW0M11 | 0.064 |
| | | | | Green | ZB4BW0M31 | 0.064 |
| | | | | Red | ZB4BW0M41 | 0.064 |
| | | | | Orange | ZB4BW0M51 | 0.064 |
| | | | | Blue | ZB4BW0M61 | 0.064 |
| | | – | 1 | White | ZB4BW0M12 | 0.064 |
| | | | | Green | ZB4BW0M32 | 0.064 |
| | | | | Red | ZB4BW0M42 | 0.064 |
| | | | | Orange | ZB4BW0M52 | 0.064 |
| | | | | Blue | ZB4BW0M62 | 0.064 |
| | | 2 | – | White | ZB4BW0M13 | 0.074 |
| | | | | Green | ZB4BW0M33 | 0.074 |
| | | | | Red | ZB4BW0M43 | 0.074 |
| | | | | Orange | ZB4BW0M53 | 0.074 |
| | | | | Blue | ZB4BW0M63 | 0.074 |
| | | 1 | 1 | White | ZB4BW0M15 | 0.074 |
| | | | | Green | ZB4BW0M35 | 0.074 |
| | | | | Red | ZB4BW0M45 | 0.074 |
| | | | | Orange | ZB4BW0M55 | 0.074 |
| | | | | Blue | ZB4BW0M65 | 0.074 |

Other versions

Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 48.



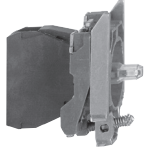
ZB4BW0M11

Protected
LED

Harmony™ XB4 metal 22 mm push buttons

Body/light assemblies for pilot lights
with integral LED

To combine with heads, see page 44; contacts, see page 48



ZB4BV●●

Protected
LED

Complete light bodies (mounting collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

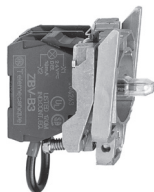
| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--------------|--------------------------------|--------------------------|-----------------|--------------|
| Integral LED | ≈ 12 (50/60 Hz) | White | ZB4BVJ1 | 0.054 |
| | | Green | ZB4BVJ3 | 0.054 |
| | | Red | ZB4BVJ4 | 0.054 |
| | | Orange | ZB4BVJ5 | 0.054 |
| | | Blue | ZB4BVJ6 | 0.054 |
| | | Blue | ZB4BVJ6 | 0.054 |
| | ≈ 24 (1) (50/60 Hz) | White | ZB4BVB1 | 0.054 |
| | | Green | ZB4BVB3 | 0.054 |
| | | Red | ZB4BVB4 | 0.054 |
| | | Orange | ZB4BVB5 | 0.054 |
| | | Blue | ZB4BVB6 | 0.054 |
| | ≈ 24 to 120 (50/60 Hz) | White | ZB4BVBG1 | 0.054 |
| | | Green | ZB4BVBG3 | 0.054 |
| | | Red | ZB4BVBG4 | 0.054 |
| | | Orange | ZB4BVBG5 | 0.054 |
| | | Blue | ZB4BVBG6 | 0.054 |
| | ≈ 110 to 120 (1) (50/60 Hz) | White | ZB4BVG1 | 0.054 |
| | | Green | ZB4BVG3 | 0.054 |
| | | Red | ZB4BVG4 | 0.054 |
| | | Orange | ZB4BVG5 | 0.054 |
| | | Blue | ZB4BVG6 | 0.054 |
| | ≈ 230 to 240 (1) (50/60 Hz) | White | ZB4BVM1 | 0.054 |
| | | Green | ZB4BVM3 | 0.054 |
| | | Red | ZB4BVM4 | 0.054 |
| Orange | | ZB4BVM5 | 0.054 | |
| Blue | | ZB4BVM6 | 0.054 | |
| Blue | | ZB4BVM6 | 0.054 | |

(1) Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 52.

Harmony™ XB4 metal 22 mm push buttons

Body/light assemblies for pilot lights
with integral LED

To combine with heads, see page 44; contacts, see page 48



ZB4BVB●156

Complete light bodies with 3-terminal “remote test” function

(mounting collar + light block with integral LED + pre-wired block for “remote test light” function)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--------------------------------------|------------------------|--------------------------|------------|--------------|
| Integral LED Protected LED | ≈ 24 (1) (50/60 Hz) | White | ZB4BVB1156 | 0.054 |
| | | Green | ZB4BVB3156 | 0.054 |
| | | Red | ZB4BVB4156 | 0.054 |
| | | Orange | ZB4BVB5156 | 0.054 |
| | | Blue | ZB4BVB6156 | 0.054 |

Complete bodies with flashing pilot light (mounting collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)




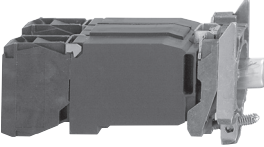
| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--------------------------------------|----------------------------|--------------------------|-----------|--------------|
| Integral LED Protected LED | ≈ 24 (50/60 Hz) | White | ZB4BV18B1 | 0.054 |
| | | Green | ZB4BV18B3 | 0.054 |
| | | Red | ZB4BV18B4 | 0.054 |
| | | Orange | ZB4BV18B5 | 0.054 |
| | | Blue | ZB4BV18B6 | 0.054 |
| | ≈ 110 to 120 (50/60 Hz) | White | ZB4BV18G1 | 0.054 |
| | | Green | ZB4BV18G3 | 0.054 |
| | | Red | ZB4BV18G4 | 0.054 |
| | | Orange | ZB4BV18G5 | 0.054 |
| | | Blue | ZB4BV18G6 | 0.054 |
| | ≈ 230 to 240 (50/60 Hz) | White | ZB4BV18M1 | 0.054 |
| | | Green | ZB4BV18M3 | 0.054 |
| | | Red | ZB4BV18M4 | 0.054 |
| | | Orange | ZB4BV18M5 | 0.054 |
| | | Blue | ZB4BV18M6 | 0.054 |

(1) For a ~ 120 or 230 V supply, use complete body ZB4BVG● or ZB4BVM● with block for “remote test light” function type ZBZM156, see pages 44 and 49.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks
with BA 9s base fitting

To combine with heads, see page 31; contacts, see page 48

| Complete body/contact assemblies and light blocks ⁽¹⁾ | | | | | | | |
|---|--|---|---|-----------------------|------------|------------|-------|
| For bulb with BA 9s base fitting (incandescent, neon or LED) | | | | | | | |
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight | |
| | |  |  | | | | |
| | V | N/O | N/C | | | kg | |
| Direct supply | | | | | | | |
|  ZB4BW06● | BA9s base fitting bulb, 2.4 W max, not included ⁽²⁾ | ≤ 250 | 1 | – | – | ZB4BW061 | 0.063 |
| | | | – | 1 | – | ZB4BW062 | 0.063 |
| | | | 2 | – | – | ZB4BW063 | 0.073 |
| | | | 1 | 1 | – | ZB4BW065 | 0.073 |
| Supply via integral transformer (1.2 VA, 6 V secondary) | | | | | | | |
|  ZB4BW05● | BA9s base fitting incandescent bulb, included | ~ 110 to 120 50/60 Hz | 1 | – | – | ZB4BW031 | 0.141 |
| | | | 1 | 1 | – | ZB4BW035 | 0.151 |
| | | ~ 230 50 Hz | 1 | – | – | ZB4BW041 | 0.141 |
| | | | 1 | 1 | – | ZB4BW045 | 0.151 |
| | | ~ 220 to 240 60 Hz | 1 | – | – | ZB4BW051 | 0.141 |
| | | | 1 | 1 | – | ZB4BW055 | 0.151 |
| | BA9s base fitting LED, included | ~ 110 to 120 50/60 Hz | 1 | 1 | White | ZB4BW03D15 | 0.151 |
| | | | | | Green | ZB4BW03D35 | 0.151 |
| | | | | | Red | ZB4BW03D45 | 0.151 |
| | | | | | Orange | ZB4BW03D55 | 0.151 |
| Blue | | | | | ZB4BW03D65 | 0.151 | |
| ~ 230 50 Hz | | 1 | 1 | White | ZB4BW04D15 | 0.151 | |
| | | | | Green | ZB4BW04D35 | 0.151 | |
| | | | | Red | ZB4BW04D45 | 0.151 | |
| | | | | Orange | ZB4BW04D55 | 0.151 | |
| | | | | Blue | ZB4BW04D65 | 0.151 | |
| | | ~ 220 to 240 60 Hz | 1 | 1 | White | ZB4BW05D15 | 0.152 |
| | | | | | Green | ZB4BW05D35 | 0.152 |
| ~ 400 50/60 Hz | 1 | 1 | White | ZB4BW05D15 | 0.152 | | |
| | | | Green | ZB4BW05D35 | 0.152 | | |
| | | | Red | ZB4BW05D45 | 0.152 | | |
| | | | Orange | ZB4BW05D55 | 0.152 | | |
| | | | Blue | ZB4BW05D65 | 0.152 | | |

Other versions Complete bodies with integral transformer incorporating Faston® connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

⁽¹⁾ Can be fitted with additional contact blocks: see page 48.
⁽²⁾ Bulb to be ordered separately: see page 68.

Harmony™ XB4 metal 22 mm push buttons

Light bodies for pilot lights
with BA 9s base fitting

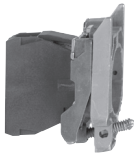
To combine with heads, see page 45; contacts, see page 48

Light blocks Screw clamp terminal connections (Schneider Electric anti-retightening system)

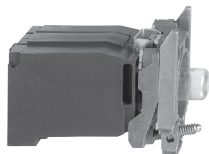
| Description | Supply voltage V | Sold in lots of | Unit reference | Weight kg |
|---|---------------------|--------------------|-------------------|--------------|
| Direct supply for BA 9s base fitting bulb, 2.4 W max., not included (1) | ≤ 250 | 5 | ZBV6 | 0.016 |

Complete light bodies (mounting collar + light block) For bulb with BA 9s base fitting (incandescent, neon or LED) Screw clamp terminal connections (Schneider Electric anti-retightening system)

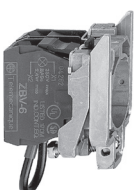
| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--|---------------------------------------|--------------------------|-----------|--------------|
| Direct supply | | | | |
| BA 9s base fitting bulb, 2.4 W max, not included (1) | ≤ 250 | – | ZB4BV6 | 0.052 |
| Supply via integral transformer (1.2 VA, 6 V secondary) | | | | |
| BA 9s base fitting incandescent bulb, included | ~ 110 to 120 -50/60 Hz | – | ZB4BV3 | 0.130 |
| | ~ 230 - 50 Hz | – | ZB4BV4 | 0.130 |
| | ~ 220 to 240 - 60 Hz | – | ZB4BV5 | 0.131 |
| | ~ 400 - 50 Hz | – | ZB4BV5 | 0.131 |
| | ~ 440 to 480 - 60 Hz | – | ZB4BV8 | 0.128 |
| | ~ 550 to 600 - 60 Hz | – | ZB4BV9 | 0.131 |
| BA 9s base fitting LED, included | ~ 110 to 120 - 50/60 Hz | White | ZB4BV3D1 | 0.134 |
| | | Green | ZB4BV3D3 | 0.134 |
| | | Red | ZB4BV3D4 | 0.134 |
| | | Orange | ZB4BV3D5 | 0.134 |
| | | Blue | ZB4BV3D6 | 0.134 |
| | | Blue | ZB4BV3D6 | 0.134 |
| | ~ 230 - 50 Hz ~ 220 to 240 - 60 Hz | White | ZB4BV4D1 | 0.134 |
| | | Green | ZB4BV4D3 | 0.134 |
| | | Red | ZB4BV4D4 | 0.134 |
| | | Orange | ZB4BV4D5 | 0.134 |
| | | Blue | ZB4BV4D6 | 0.134 |
| | | Blue | ZB4BV4D6 | 0.134 |
| ~ 400 - 50/60 Hz | White | ZB4BV5D1 | 0.134 | |
| | Green | ZB4BV5D3 | 0.134 | |
| | Red | ZB4BV5D4 | 0.134 | |
| | Orange | ZB4BV5D5 | 0.134 | |
| | Blue | ZB4BV5D6 | 0.134 | |
| | Blue | ZB4BV5D6 | 0.134 | |



ZB4BV6



ZB4BV●



ZB4BV156

Complete light bodies with 3-terminal “remote test” function (mounting collar + light block)

For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Direct supply | | | | |
|--|-------|---|----------|-------|
| BA 9s base fitting bulb, 2.4 W max, not included (1) | ≤ 250 | – | ZB4BV156 | 0.062 |

(1) Bulb to be ordered separately, see page 70.

Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 49.

Harmony™ XB4 metal 22 mm push buttons

Accessories for heads Caps



ZBA●



ZBL●



ZBA●33

Push button caps - unmarked

| For use with | Type of push | Color | Sold in lots of | Unit reference | Weight kg |
|---|--------------|--------|-----------------|----------------|-----------|
| ZB4BA0 push button heads supplied without cap | Flush | White | 10 | ZBA1 | 0.001 |
| | | Black | 10 | ZBA2 | 0.001 |
| | | Green | 10 | ZBA3 | 0.001 |
| | | Red | 10 | ZBA4 | 0.001 |
| | | Yellow | 10 | ZBA5 | 0.001 |
| | | Blue | 10 | ZBA6 | 0.001 |
| | 6 colors (1) | 1 | ZBA9 | 0.006 | |
| | Projecting | White | 10 | ZBL1 | 0.001 |
| | | Black | 10 | ZBL2 | 0.001 |
| | | Green | 10 | ZBL3 | 0.001 |
| | | Red | 10 | ZBL4 | 0.001 |
| | | Yellow | 10 | ZBL5 | 0.001 |
| | | Blue | 10 | ZBL6 | 0.001 |
| 6 colors (1) | | 1 | ZBL9 | 0.006 | |

Push button caps - marked

| For use with | Type of push | Marking | | Color of cap | Unit reference | Weight kg |
|--|--------------|-----------|-------|--------------|----------------|-----------|
| | | Text | Color | | | |
| ZB4BA0 push button heads supplied without cap (sold in lots of 10) | Flush | I (2) | White | Green | ZBA331 | 0.001 |
| | | | Black | White | ZBA131 | 0.001 |
| | | II | White | Green | ZBA336 | 0.001 |
| | | | Black | White | ZBA136 | 0.001 |
| | | III | White | Green | ZBA337 | 0.001 |
| | | | Black | White | ZBA137 | 0.001 |
| | | IV | White | Green | ZBA338 | 0.001 |
| | | | Black | White | ZBA138 | 0.001 |
| | | START (2) | White | Green | ZBA333 | 0.001 |
| | | | Black | White | ZBA133 | 0.001 |
| | | ON | White | Green | ZBA341 | 0.001 |
| | | | Black | White | ZBA141 | 0.001 |
| | | UP (2) | Black | White | ZBA343 | 0.001 |
| | | DOWN (2) | White | Black | ZBA344 | 0.001 |
| | | ⊕ (2) | White | Black | ZBA245 | 0.001 |
| | | | Black | White | ZBA145 | 0.001 |
| | | ↑ (3) | White | Black | ZBA335 | 0.001 |
| | | | Black | White | ZBA334 | 0.001 |
| | | O (2) | White | Red | ZBA432 | 0.001 |
| | | | | Black | ZBA232 | 0.001 |
| | | STOP (2) | White | Red | ZBA434 | 0.001 |
| | | | | Black | ZBA234 | 0.001 |
| | | OFF | White | Red | ZBA435 | 0.001 |
| | | | | Black | ZBA235 | 0.001 |
| | | ◇ | White | Green | ZBA346 | 0.001 |
| | | R (2) | White | Blue | ZBA639 | 0.001 |
| | | + | White | Black | ZBA2934 | 0.001 |
| | | - | White | Black | ZBA2935 | 0.001 |

(1) Set of 6 different colored caps: white, black, green, red, yellow, blue.

(2) Double injection molded marking.

(3) Can be clipped-in at 90° steps, through 360°

Harmony™ XB4 metal 22 mm push buttons

Accessories for heads
Boots, lens caps



ZBP0

Transparent boots for push buttons (1)

| Description | For use with push button types | Sold in lots of | Unit reference | Weight kg |
|--------------|---|-----------------|----------------|-----------|
| Single boots | Flush with circular head | 10 | ZBPA | 0.002 |
| | Projecting with circular head | 10 | ZBP0 | 0.002 |
| | Flush or projecting with circular head for food industry applications | 10 | ZBP0A | 0.002 |

Colored boots

| Description | Color | Sold in lots of | Unit reference | Weight kg |
|---|--------|-----------------|----------------|-----------|
| Colored boots (can be replaced without dismantling the head) | Black | 10 | ZB2BP012 | 0.003 |
| | Green | 10 | ZB2BP013 | 0.003 |
| | Red | 10 | ZB2BP014 | 0.003 |
| | Yellow | 10 | ZB2BP015 | 0.003 |
| | Blue | 10 | ZB2BP016 | 0.003 |

Lens caps

| For use with | Color | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|----------------|-----------|
| Lens caps for light sources with integral LED | | | | |
| Pilot lights | White | 10 | ZBV0113 | 0.002 |
| | Green | 10 | ZBV0133 | 0.002 |
| | Red | 10 | ZBV0143 | 0.002 |
| | Orange | 10 | ZBV0153 | 0.002 |
| | Blue | 10 | ZBV0163 | 0.002 |
| | 5 different colored grooved lenses (2) | 5 | ZBV0103S | 0.010 |
| Illuminated push buttons, with flush push | White | 10 | ZBW9113 | 0.002 |
| | Green | 10 | ZBW9133 | 0.002 |
| | Red | 10 | ZBW9143 | 0.002 |
| | Orange | 10 | ZBW9153 | 0.002 |
| | Blue | 10 | ZBW9163 | 0.002 |
| Illuminated push buttons, with projecting push | White | 10 | ZBW9313 | 0.002 |
| | Green | 10 | ZBW9333 | 0.002 |
| | Red | 10 | ZBW9343 | 0.002 |
| | Orange | 10 | ZBW9353 | 0.002 |
| | Blue | 10 | ZBW9363 | 0.002 |
| Lens caps for light sources with BA 9s base fitting | | | | |
| Pilot lights | White | 10 | ZBV011 | 0.002 |
| | Green | 10 | ZBV013 | 0.002 |
| | Red | 10 | ZBV014 | 0.002 |
| | Orange | 10 | ZBV015 | 0.002 |
| | Blue | 10 | ZBV016 | 0.002 |
| | Clear | 10 | ZBV017 | 0.002 |
| | Push buttons, illuminated, with flush push | White | 10 | ZBW911 |
| Green | | 10 | ZBW913 | 0.002 |
| Red | | 10 | ZBW914 | 0.002 |
| Orange | | 10 | ZBW915 | 0.002 |
| Blue | | 10 | ZBW916 | 0.002 |
| Clear | | 10 | ZBW917 | 0.002 |
| Push buttons, illuminated, with projecting push | White | 10 | ZBW931 | 0.002 |
| | Green | 10 | ZBW933 | 0.002 |
| | Red | 10 | ZBW934 | 0.002 |
| | Orange | 10 | ZBW935 | 0.002 |
| | Blue | 10 | ZBW936 | 0.002 |
| | Clear | 10 | ZBW937 | 0.002 |



ZBV01•3



ZBV01•

(1) Boots for multiple-headed push buttons: see page 33

(2) Clear, green, red, orange, blue.

Harmony™ XB4 metal 22 mm push buttons

8 x 27 mm legends with
30 x 40 mm legend holders



ZBZ34



ZBY•H101

30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends (1)

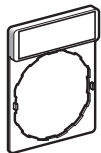
| Description | Legend Color | Marking | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------------------|---------|--------------------|-------------------|--------------|
| Without legend | – | – | 10 | ZBZ34 | 0.003 |
| With blank legend | Black or red background | – | 10 | ZBY2H101 | 0.004 |
| | White or yellow background | – | 10 | ZBY4H101 | 0.004 |



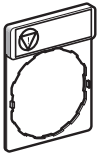
ZBZ32

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends (1)

| Description | Legend Color | Marking | Sold in lots of | Unit reference | Weight kg | | |
|---|--------------------------------|--|--------------------------------|-----------------------|--------------|---------|-------|
| Without legend | – | – | 10 | ZBZ32 | 0.001 | | |
| With blank legend (for engraving) | Black or red background | – | 10 | ZBY2101 | 0.002 | | |
| | White or yellow background | – | 10 | ZBY4101 | 0.002 | | |
| With 8 x 27 mm legend (with International marking) | Black or red background (2) | O (black background) | 1 | ZBY2146 | 0.002 | | |
| | | O (red background) | 1 | ZBY2931 | 0.002 | | |
| | | I | 1 | ZBY2147 | 0.002 | | |
| | | II | 1 | ZBY2148 | 0.002 | | |
| | | O-I | 1 | ZBY2178 | 0.002 | | |
| | | I-II | 1 | ZBY2179 | 0.002 | | |
| | | I-O-II | 1 | ZBY2186 | 0.002 | | |
| | | AUTO | 1 | ZBY2115 | 0.002 | | |
| | | STOP | 1 | ZBY2304 | 0.002 | | |
| | | Yellow background | Ⓢ | 1 | ZBY4140 (3) | 0.002 | |
| | | With 8 x 27 mm legend (with French language marking) | Black or red background (2) | ARRET (red backgr.) | 1 | ZBY2104 | 0.002 |
| | | | | ARRET (black backgr.) | 1 | ZBY0104 | 0.002 |
| | | | | ARRET GENERAL | 1 | ZBY2129 | 0.002 |
| ARRET REARMEMENT | 1 | | | ZBY2133 | 0.002 | | |
| ARRET-MARCHE | 1 | | | ZBY2166 | 0.002 | | |
| ARRIERE | 1 | | | ZBY2106 | 0.002 | | |
| AUTO CYCLE-CYCLE | 1 | | | ZBY2198 | 0.002 | | |
| AUTO CYCLE-MAIN | 1 | | | ZBY2199 | 0.002 | | |
| AUTO-MAIN | 1 | | | ZBY2164 | 0.002 | | |
| AUTO-O-MAIN | 1 | | | ZBY2185 | 0.002 | | |
| AVANT | 1 | | | ZBY2105 | 0.002 | | |
| AVANT-O-ARRIERE | 1 | | | ZBY2184 | 0.002 | | |
| C-P-C-NORMAL | 1 | | | ZBY2165 | 0.002 | | |
| CYCLE-MAIN | 1 | | | ZBY2197 | 0.002 | | |
| DECLENCHEMENT | 1 | | | ZBY2132 | 0.002 | | |
| DEFAUT (black backgr.) | 1 | | | ZBY2134 | 0.002 | | |
| DEFAUT (red backgr.) | 1 | | | ZBY2135 | 0.002 | | |
| DEPART CYCLE | 1 | | | ZBY2195 | 0.002 | | |
| DESCENTE | 1 | | | ZBY2108 | 0.002 | | |
| DROITE | 1 | | | ZBY2109 | 0.002 | | |
| ENCLENCHEMENT | 1 | | | ZBY2131 | 0.002 | | |
| EN SERVICE | 1 | | | ZBY2111 | 0.002 | | |
| FERMETURE | 1 | | | ZBY2114 | 0.002 | | |
| GAUCHE | 1 | | | ZBY2110 | 0.002 | | |
| HORS SERVICE | 1 | | | ZBY2112 | 0.002 | | |
| HORS-EN | 1 | | | ZBY2167 | 0.002 | | |
| LENT | 1 | | | ZBY2127 | 0.002 | | |
| MAIN | 1 | ZBY2116 | 0.002 | | | | |
| MARCHE | 1 | ZBY2103 | 0.002 | | | | |
| MONTEE | 1 | ZBY2107 | 0.002 | | | | |
| OUVERTURE | 1 | ZBY2113 | 0.002 | | | | |
| PHASE / PHASE | 1 | ZBY2196 | 0.002 | | | | |
| REARMEMENT (red background) | 1 | ZBY2123 | 0.002 | | | | |
| REARMEMENT (black background) | 1 | ZBY0123 | 0.002 | | | | |
| SOUS TENSION | 1 | ZBY2126 | 0.002 | | | | |
| VITE | 1 | ZBY2128 | 0.002 | | | | |
| Red background | ARRET D'URGENCE | 1 | ZBY2130 (3) | 0.002 | | | |



ZBY•101



ZBY4140



ZBY2107

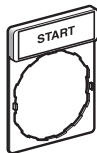
(1) For legends, see pages 64 to 66.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

(3) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo Ⓢ has been added.

Harmony™ XB4 metal 22 mm push buttons

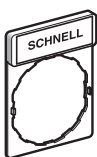
8 x 27 mm legends with
30 x 40 mm legend holders




ZBY2303

Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)

| Description | Legend Color | Marking | Reference | Weight kg | | |
|--|--------------------------------|---|--------------------------------|----------------|-------------|-------|
| With legend (with English language marking) | Black or red background (1) | AUTO-HAND | ZBY2364 | 0.002 | | |
| | | AUTO-O-HAND | ZBY2385 | 0.002 | | |
| | | CLOSE | ZBY2314 | 0.002 | | |
| | | DOWN | ZBY2308 | 0.002 | | |
| | | FAST | ZBY2328 | 0.002 | | |
| | | FORWARD | ZBY2305 | 0.002 | | |
| | | HAND | ZBY2316 | 0.002 | | |
| | | HAND-OFF-AUTO | ZBY2387 | 0.002 | | |
| | | INCH | ZBY2321 | 0.002 | | |
| | | LEFT | ZBY2310 | 0.002 | | |
| | | OFF | ZBY2312 | 0.002 | | |
| | | OFF-ON | ZBY2367 | 0.002 | | |
| | | ON | ZBY2311 | 0.002 | | |
| | | OPEN | ZBY2313 | 0.002 | | |
| | | POWER ON | ZBY2326 | 0.002 | | |
| | | RESET (red background) | ZBY2323 | 0.002 | | |
| | | RESET (black background) | ZBY2322 | 0.002 | | |
| | | REVERSE | ZBY2306 | 0.002 | | |
| | | RIGHT | ZBY2309 | 0.002 | | |
| | | RUN | ZBY2334 | 0.002 | | |
| | | SLOW | ZBY2327 | 0.002 | | |
| | | START | ZBY2303 | 0.002 | | |
| | | STOP-START | ZBY2366 | 0.002 | | |
| | | UP | ZBY2307 | 0.002 | | |
| | | | Red background | EMERGENCY STOP | ZBY2330 (2) | 0.002 |
| | | With legend (with German language marking) | Black or red background (1) | AB | ZBY2208 | 0.002 |
| AUF | ZBY2207 | | | 0.002 | | |
| AUS | ZBY2204 | | | 0.002 | | |
| AUS-EIN | ZBY2266 | | | 0.002 | | |
| AUS-IN BETRIEB | ZBY2267 | | | 0.002 | | |
| AUS-RÜCKSTELLUNG | ZBY2233 | | | 0.002 | | |
| AUSSCHALTEN | ZBY2232 | | | 0.002 | | |
| AUTO-HAND | ZBY2364 | | | 0.002 | | |
| AUTO-O-HAND | ZBY2385 | | | 0.002 | | |
| AUTOZYKL-HAND | ZBY2299 | | | 0.002 | | |
| AUTOZYKL- 1 ZYKL | ZBY2298 | | | 0.002 | | |
| C-P-C-NORMAL | ZBY2265 | | | 0.002 | | |
| EIN | ZBY2203 | | | 0.002 | | |
| EINSCHALTEN | ZBY2231 | | | 0.002 | | |
| HAND | ZBY2316 | | | 0.002 | | |
| LANGSAM | ZBY2227 | | | 0.002 | | |
| LINKS | ZBY2210 | | | 0.002 | | |
| NOT-AUS (red background) | ZBY2230 | | | 0.002 | | |
| ÖFFNEN | ZBY2213 | | | 0.002 | | |
| RECHTS | ZBY2209 | | | 0.002 | | |
| RÜCKSTELLUNG | ZBY2223 | | | 0.002 | | |
| SCHLIESSEN | ZBY2214 | | | 0.002 | | |
| SCHNELL | ZBY2228 | | | 0.002 | | |
| SPANNUNG EIN | ZBY2226 | | | 0.002 | | |
| STEUERUNG AUS | ZBY2212 | | | 0.002 | | |
| STEUERUNG EIN | ZBY2211 | | | 0.002 | | |
| STÖRUNG (black background) | ZBY2234 | | | 0.002 | | |
| STÖRUNG (red background) | ZBY2235 | | | 0.002 | | |
| VOR | ZBY2205 | | | 0.002 | | |
| VOR-O-ZURÜCK | ZBY2284 | | | 0.002 | | |
| ZURÜCK | ZBY2206 | | | 0.002 | | |
| ZYKLUS-HAND | ZBY2297 | | | 0.002 | | |
| ZYKLUSSTART | ZBY2295 | | | 0.002 | | |
| | Red background | NOT-HALT | ZBY2229 (2) | 0.002 | | |
| | Yellow background | NOT-HALT | ZBY22420001 (2) | 0.002 | | |




ZBY2228


(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Harmony™ XB4 metal 22 mm push buttons 8 x 27 mm legends

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34)

| Language | Color of background | Marking | Reference | Weight kg | | |
|-------------------------------|---------------------|----------------------|---|--------------------------|----------|-------|
| Without | White or yellow | – | ZBY0102 | 0.001 | | |
| International | Black or red (1) | O (black background) | ZBY02146 | 0.001 | | |
| | | O (red background) | ZBY02931 | 0.001 | | |
| | | I | ZBY02147 | 0.001 | | |
| | | II | ZBY02148 | 0.001 | | |
| | | O-I | ZBY02178 | 0.001 | | |
| | | I-II | ZBY02179 | 0.001 | | |
| | | I-O-II | ZBY02186 | 0.001 | | |
| | | AUTO | ZBY02115 | 0.001 | | |
| | | STOP | ZBY02304 | 0.001 | | |
| | | Red |  | ZBY0140 (2) | 0.001 | |
| | | French | Black or red (1) | ARRET (red background) | ZBY02104 | 0.001 |
| | | | | ARRET (black background) | ZBY00104 | 0.001 |
| | | | | ARRET GENERAL | ZBY02129 | 0.001 |
| ARRET REARMEMENT | ZBY02133 | | | 0.001 | | |
| ARRET-MARCHE | ZBY02166 | | | 0.001 | | |
| ARRIERE | ZBY02106 | | | 0.001 | | |
| AUTO CYCLE-CYCLE | ZBY02198 | | | 0.001 | | |
| AUTO CYCLE-MAIN | ZBY02199 | | | 0.001 | | |
| AUTO-MAIN | ZBY02164 | | | 0.001 | | |
| AUTO-O-MAIN | ZBY02185 | | | 0.001 | | |
| AVANT | ZBY02105 | | | 0.001 | | |
| AVANT-O-ARRIERE | ZBY02184 | | | 0.001 | | |
| C-P-C-NORMAL | ZBY02165 | | | 0.001 | | |
| CYCLE-MAIN | ZBY02197 | | | 0.001 | | |
| DECLENCHEMENT | ZBY02132 | | | 0.001 | | |
| DEFAUT (black background) | ZBY02134 | | | 0.001 | | |
| DEFAUT (red background) | ZBY02135 | | | 0.001 | | |
| DEPART CYCLE | ZBY02195 | | | 0.001 | | |
| DESCENTE | ZBY02108 | | | 0.001 | | |
| DROITE | ZBY02109 | | | 0.001 | | |
| ENCLENCHEMENT | ZBY02131 | | | 0.001 | | |
| EN SERVICE | ZBY02111 | | | 0.001 | | |
| FERMETURE | ZBY02114 | | | 0.001 | | |
| GAUCHE | ZBY02110 | | | 0.001 | | |
| HORS SERVICE | ZBY02112 | | | 0.001 | | |
| HORS-EN | ZBY02167 | | | 0.001 | | |
| LENT | ZBY02127 | | | 0.001 | | |
| MAIN | ZBY02116 | | | 0.001 | | |
| MARCHE | ZBY02103 | | | 0.001 | | |
| MONTEE | ZBY02107 | | | 0.001 | | |
| OUVERTURE | ZBY02113 | | | 0.001 | | |
| PHASE / PHASE | ZBY02196 | | | 0.001 | | |
| REARMEMENT (red background) | ZBY02123 | | | 0.001 | | |
| REARMEMENT (black background) | ZBY00123 | 0.001 | | | | |
| SOUS TENSION | ZBY02126 | 0.001 | | | | |
| VITE | ZBY02128 | 0.001 | | | | |
| Red | ARRET D'URGENCE | ZBY02130 | 0.001 | | | |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.



ZBY02178



ZBY0140



ZBY0104

Harmony™ XB4 metal 22 mm push buttons 8 x 27 mm legends


8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34) (continued)

| Language | Color of background | Marking | Reference | Weight kg | | |
|------------|---------------------|----------------------------|--------------|--------------|------------------|-------|
| English | Black or red (1) | AUTO-HAND | ZBY02364 | 0.001 | | |
| | | AUTO-O-HAND | ZBY02385 | 0.001 | | |
| | | CLOSE | ZBY02314 | 0.001 | | |
| | | DOWN | ZBY02308 | 0.001 | | |
| | | EMERGENCY STOP | ZBY02330 | 0.001 | | |
| | | FAST | ZBY02328 | 0.001 | | |
| | | FORWARD | ZBY02305 | 0.001 | | |
| | | HAND | ZBY02316 | 0.001 | | |
| | | HAND-OFF-AUTO | ZBY02387 | 0.001 | | |
| | | INCH | ZBY02321 | 0.001 | | |
| | | LEFT | ZBY02310 | 0.001 | | |
| | | OFF | ZBY02312 | 0.001 | | |
| | | OFF-ON | ZBY02367 | 0.001 | | |
| | | ON | ZBY02311 | 0.001 | | |
| | | OPEN | ZBY02313 | 0.001 | | |
| | | POWER ON | ZBY02326 | 0.001 | | |
| | | RESET (red background) | ZBY02323 | 0.001 | | |
| | | RESET (black background) | ZBY02322 | 0.001 | | |
| | | REVERSE | ZBY02306 | 0.001 | | |
| | | RIGHT | ZBY02309 | 0.001 | | |
| | | RUN | ZBY02334 | 0.001 | | |
| | | SLOW | ZBY02327 | 0.001 | | |
| | | START | ZBY02303 | 0.001 | | |
| STOP-START | ZBY02366 | 0.001 | | | | |
| UP | ZBY02307 | 0.001 | | | | |
| | Red | EMERGENCY STOP | ZBY02330 (2) | 0.001 | | |
| German | Black or red (1) | AB | ZBY02208 | 0.001 | | |
| | | AUF | ZBY02207 | 0.001 | | |
| | | AUS | ZBY02204 | 0.001 | | |
| | | AUS-EIN | ZBY02266 | 0.001 | | |
| | | AUS-IN BETRIEB | ZBY02267 | 0.001 | | |
| | | AUS-RÜCKSTELLUNG | ZBY02233 | 0.001 | | |
| | | AUSSCHALTEN | ZBY02232 | 0.001 | | |
| | | AUTO-HAND | ZBY02364 | 0.001 | | |
| | | AUTO-O-HAND | ZBY02385 | 0.001 | | |
| | | AUTOZYKL-HAND | ZBY02299 | 0.001 | | |
| | | AUTOZYKL- 1 ZYKL | ZBY02298 | 0.001 | | |
| | | C-P-C-NORMAL | ZBY02265 | 0.001 | | |
| | | EIN | ZBY02203 | 0.001 | | |
| | | EINSCHALTEN | ZBY02231 | 0.001 | | |
| | | HAND | ZBY02316 | 0.001 | | |
| | | LANGSAM | ZBY02227 | 0.001 | | |
| | | LINKS | ZBY02210 | 0.001 | | |
| | | NOT-AUS (red background) | ZBY02230 | 0.001 | | |
| | | ÖFFNEN | ZBY02213 | 0.001 | | |
| | | RECHTS | ZBY02209 | 0.001 | | |
| | | RÜCKSTELLUNG | ZBY02223 | 0.001 | | |
| | | SCHLIESSEN | ZBY02214 | 0.001 | | |
| | | SCHNELL | ZBY02228 | 0.001 | | |
| | | SPANNUNG EIN | ZBY02226 | 0.001 | | |
| | | STEUERUNG AUS | ZBY02212 | 0.001 | | |
| | | STEUERUNG EIN | ZBY02211 | 0.001 | | |
| | | STÖRUNG (black background) | ZBY02234 | 0.001 | | |
| | | STÖRUNG (red background) | ZBY02235 | 0.001 | | |
| | | VOR | ZBY02205 | 0.001 | | |
| | | VOR-O-ZURÜCK | ZBY02284 | 0.001 | | |
| | | ZURÜCK | ZBY02206 | 0.001 | | |
| | | ZYKLUS-HAND | ZBY02297 | 0.001 | | |
| | | ZYKLUSSTART | ZBY02295 | 0.001 | | |
| | | | Red | NOT-HALT | ZBY02229 (2) | 0.001 |
| | | | Yellow | NOT-HALT | ZBY022420001 (2) | 0.001 |

Sheets of peel-off legends (with backing board and protective transparent cover)

| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|----------------------------------|---|--------------------|-------------------|--------------|
| Sheet of 76 legends 8 x 27 mm | 30 x 40 mm legend holder ZBZ32 and ZBZ34 | 10 | ZBY4100 | 0.043 |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

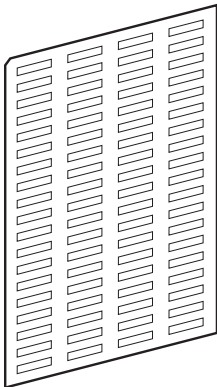
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

START

ZBY02303

SCHNELL

ZBY02228



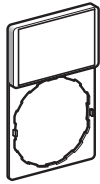
ZBY4100

Harmony™ XB4 metal 22 mm push buttons

Legend holders for 18 x 27 mm legends
18 x 27 mm legends for engraving or printing



ZBZ33



ZBY610●

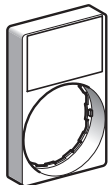
Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

| Description | Color of background | Sold in lots of | Unit reference | Weight kg |
|-------------------|---------------------|-----------------|----------------|-----------|
| Without legend | – | 10 | ZBZ33 | 0.001 |
| With blank legend | Black or red | 10 | ZBY6101 | 0.002 |
| | White or yellow | 10 | ZBY6102 | 0.002 |
| | Yellow | 10 | ZBY6140 (1) | 0.002 |

30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends



ZBZ35

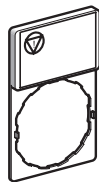


ZBY6H10●

| Description | Color of background | Sold in lots of | Unit reference | Weight kg |
|-------------------|---------------------|-----------------|----------------|-----------|
| Without legend | – | 10 | ZBZ35 | 0.003 |
| With blank legend | Black or red | 10 | ZBY6H101 | 0.004 |
| | White or yellow | 10 | ZBY6H102 | 0.004 |

18 x 27 mm legends for engraving (for 30 x 50 mm legend-holders)

| Color | Language | Marking | Sold in lots of | Unit reference | Weight kg |
|----------------------------|---------------|-----------------|-----------------|----------------|-----------|
| Black or red background | – | Without | 10 | ZBY0501 | 0.001 |
| White or yellow background | – | Without | 10 | ZBY0502 | 0.001 |
| Red background | International | | 10 | ZBY5140 (1) | 0.001 |
| | French | ARRET D'URGENCE | 10 | ZBY55130 (1) | 0.001 |
| | English | EMERGENCY STOP | 10 | ZBY55330 (1) | 0.001 |



ZBY5140

Sheets of peel-off legends 18 x 27 mm (with backing board and protective transparent cover)

| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|--------------------------------|--|-----------------|----------------|-----------|
| Sheet of 40 legends 18 x 27 mm | 30 x 50 mm legend holder ZBZ33 and ZBZ35 | 10 | ZBY5100 | 0.044 |



ZBY42101



ZBY62101

Nameplates, 30 x 40 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY42101 |
| White | Red | ZBY44101 |
| Black | Yellow | ZBY41101 |
| Black | White | ZBY45101 |

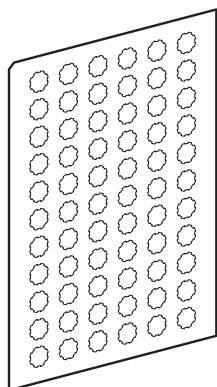
Nameplates, 30 x 50 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY62101 |
| White | Red | ZBY64101 |
| Black | Yellow | ZBY61101 |
| Black | White | ZBY65101 |

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB4 metal 22 mm push buttons

Legends, for insertion, for printing, pre-printed, labelling software, circular legends



ZBY1101

| Legends for XB4B push buttons, illuminated push buttons and pilot lights | | | | | |
|---|---------------|----------|-----------------|----------------|-----------|
| Description | Language | Marking | Sold in lots of | Unit reference | Weight kg |
| Sheets of 66 circular peel-off, transparent, self-adhesive legends | – | Without | 10 | ZBY1101 | 0.017 |
| Strips of 66 circular peel-off, transparent, self-adhesive legends | International | O | 10 | ZBY1146 | 0.017 |
| | | I | 10 | ZBY1147 | 0.017 |
| | | II | 10 | ZBY1148 | 0.017 |
| | | III | 10 | ZBY1149 | 0.017 |
| | | STOP | 10 | ZBY1304 | 0.017 |
| | | † | 10 | ZBY1912 | 0.017 |
| | French | ARRET | 10 | ZBY1104 | 0.017 |
| | | ARRIERE | 10 | ZBY1106 | 0.017 |
| | | AUTO | 10 | ZBY1115 | 0.017 |
| | | AVANT | 10 | ZBY1105 | 0.017 |
| | | DESCENTE | 10 | ZBY1108 | 0.017 |
| | | MAIN | 10 | ZBY1116 | 0.017 |
| | | MARCHE | 10 | ZBY1103 | 0.017 |
| | | MONTEE | 10 | ZBY1107 | 0.017 |
| | English | HAND | 10 | ZBY1316 | 0.017 |
| | | OFF | 10 | ZBY1312 | 0.017 |
| | | ON | 10 | ZBY1311 | 0.017 |
| | | START | 10 | ZBY1303 | 0.017 |
| | German | AB | 10 | ZBY1208 | 0.017 |
| AUF | | 10 | ZBY1207 | 0.017 | |
| AUS | | 10 | ZBY1204 | 0.017 | |
| EIN | | 10 | ZBY1203 | 0.017 | |
| ZU | | 10 | ZBY1214 | 0.017 | |


Circular, yellow legends for mushroom head push buttons

Used for “Emergency stop” function

| Diameter mm | Conforming to standards | Marking on yellow background | Reference | Weight kg |
|-------------|--------------------------------------|------------------------------|-------------|-----------|
| 60 | EN/IEC 60204-1 and EN/ISO 13850:2006 | – | ZBY9140 (1) | 0.004 |
| | | ARRET D'URGENCE | ZBY9130 | 0.004 |
| | | EMERGENCY STOP | ZBY9330 | 0.004 |
| | | NOT-HALT | ZBY9230 | 0.004 |
| | | PARADA DE EMERGENCIA | ZBY9430 | 0.004 |
| | | ARRESTO DE EMERGENZA | ZBY9630 | 0.004 |
| | | – | ZBY8140 | 0.008 |
| 90 | EN/IEC 60204-1 and EN/ISO 13850:2006 | ARRET D'URGENCE | ZBY8130 | 0.008 |
| | | EMERGENCY STOP | ZBY8330 | 0.008 |
| | | NOT-HALT | ZBY8230 | 0.008 |
| | | PARADA DE EMERGENCIA | ZBY8430 | 0.008 |
| | | ARRESTO DE EMERGENZA | ZBY8630 | 0.008 |

Used for “Emergency switching off” function

| | | | | |
|----|----------------|---------------------------|---------|-------|
| 60 | EN/IEC 60204-1 | – | ZBY9101 | 0.004 |
| | | COUPURE D'URGENCE | ZBY9160 | 0.004 |
| | | EMERGENCY SWITCHING OFF | ZBY9360 | 0.004 |
| | | NOT-AUS | ZBY9260 | 0.004 |
| | | DESCONEXION DE EMERGENCIA | ZBY9460 | 0.004 |
| | | INTERRUZIONE DI EMERGENZA | ZBY9660 | 0.004 |
| 90 | EN/IEC 60204-1 | – | ZBY8101 | 0.008 |
| | | COUPURE D'URGENCE | ZBY8160 | 0.008 |
| | | EMERGENCY SWITCHING OFF | ZBY8360 | 0.008 |
| | | NOT-AUS | ZBY8260 | 0.008 |
| | | DESCONEXION DE EMERGENCIA | ZBY8460 | 0.008 |
| | | INTERRUZIONE DI EMERGENZA | ZBY8660 | 0.008 |

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.



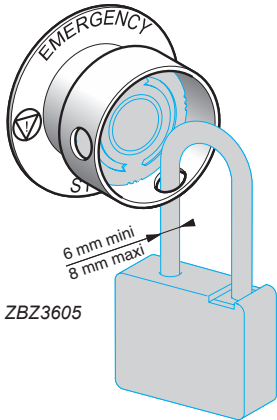
ZBY9330



ZBY9360

Harmony™ XB4 metal 22 mm push buttons

Accessories for push buttons



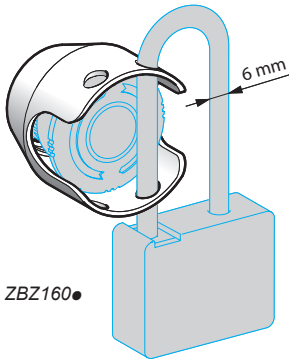
ZBZ3605



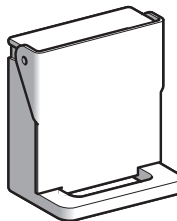
ZBY9330T



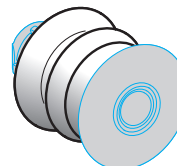
ZBY9360T



ZBZ160●



ZB4BZ64



ZBZ●8

Accessories for mushroom head push buttons

Used for "Emergency stop" (1) or "Emergency switching off" function (2)

| Description | For use with | Color | Reference | Weight kg |
|--|--|--------|----------------|-----------|
| Padlocking kit (3) (4) (padlockable) | Emergency stop (1) and Emergency switching off function (2), only with the following Ø 40 trigger action push buttons: XB4BS844●, XB4BS9445, ZB4BS844, ZB4BS944. | Yellow | ZBZ3605 | 0.045 |

| Description | Marking | Color | Reference | Weight kg |
|---|-------------------------|--------|-----------------|-----------|
| Ø 60 mm legend for padlocking device ZBZ3605 For Emergency stop function (1) | – | Yellow | ZBY9140T | 0.004 |
| | ARRET D'URGENCE | Yellow | ZBY9130T | 0.004 |
| | EMERGENCY STOP | Yellow | ZBY9330T | 0.004 |
| Ø 60 mm legend for padlocking device ZBZ3605 For Emergency switching off function (2) | NOT-HALT | Yellow | ZBY9230T | 0.004 |
| | – | Yellow | ZBY9101T | 0.004 |
| | COUPURE D'URGENCE | Yellow | ZBY9160T | 0.004 |
| Metal guards Padlockable (4) | EMERGENCY SWITCHING OFF | Yellow | ZBY9360T | 0.004 |
| | NOT-AUS | Yellow | ZBY9260T | 0.004 |

| | | | | |
|---------------------------------|---|-----------------|----------------|-------|
| Metal guards Padlockable (4) | Emergency stop function (1), only with the following Ø 40 trigger action push buttons; XB4BT845, XB4BS844●, XB4BS9445, ZB4BT84, ZB4BS844, ZB4BS944. | Chromium plated | ZBZ1600 | 0.046 |
| | | Black | ZBZ1602 | 0.046 |
| | | Red | ZBZ1604 | 0.046 |
| | | Blue | ZBZ1606 | 0.046 |

Other accessories

| Description | For use with | Color | Reference | Weight kg |
|--------------------------|------------------------------------|--------|----------------|-----------|
| Plastic guard | Selector switches and key switches | Black | ZBZ2102 | 0.005 |
| Padlockable flaps | Push buttons | Black | ZB4BZ62 | 0.076 |
| | | Red | ZB4BZ64 | 0.076 |
| | | Yellow | ZB4BZ65 | 0.076 |
| | | Blue | ZB4BZ66 | 0.076 |

| Description | Application | Material | Color | Sold in lots of | Unit reference | Weight kg |
|---|---|----------|-------|-----------------|----------------|-----------|
| Bellows seals for harsh environments (IP 69K) (5) | Environments subject to humidity, dust, high-pressure cleaning etc... | Silicone | Red | 2 | ZBZ48 | 0.009 |
| | | | Black | 2 | ZBZ28 | 0.009 |
| | | | EPDM | 2 | ZBZ58 | 0.009 |

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.

(2) Ensures conformity with standard EN/IEC 60204-1.

(3) Standard circular legends are not compatible with this product. Use special legends ZBY9●●●T.

(4) No isolation function is possible when this guard is fitted.

(5) Only when mounted on control stations. Use special legends ZBY9●●●T.

Harmony™ XB4 metal 22 mm push buttons

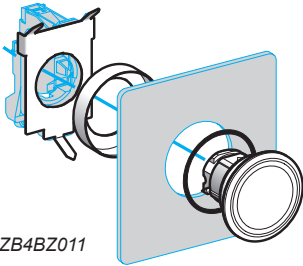
Accessories for push buttons



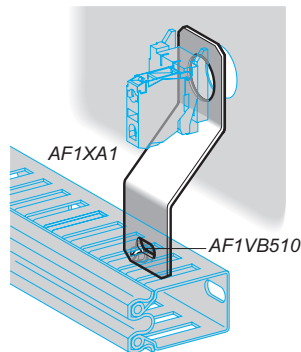
ZB5SZ3

Other accessories (continued)

| Description | For use with | Color | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|-----------------|----------------|-----------|
| Metal circular blanking plug (1) | Ø 22 control and signaling units | Chromium plated | 10 | ZB4SZ3 | 0.023 |
| | | Black | 10 | ZB4SZ37 | 0.023 |
| Black plastic circular blanking plug (with mounting nut) | Ø 22 control and signaling units | Black | 10 | ZB5SZ3 | 0.009 |
| Liquid spray protective washer to be fitted under the head | Ø 22 control and signaling units | Chromium plated | 50 | ZB4BZ007 | 0.010 |
| | | Black | 50 | ZB4BZ0077 | 0.010 |
| Flush mounting kit | Push button ZB4B● with head mounted flush with bezel | Chromium plated | | ZB4BZ011 | 0.007 |
| | | Black | | ZB4BZ0117 | 0.007 |



ZB4BZ011



| Description | Application | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|----------------|-----------|
| Cable ducting support | Mounting beneath head | 10 | AF1XA1 | 0.030 |
| M5 x 10 screw, with hexagonal slotted head | For mounting cable ducting | 100 | AF1VB510 | 0.003 |
| Support | For XB4B push buttons, switches and pilot lights | 1 | DX1AP52 | 0.160 |

(1) Body/mounting collar ZB4BZ009 required for mounting must be ordered separately, see page 51.

Harmony™ XB4 metal 22 mm push buttons

Accessories for illuminated push buttons
Bulbs



DL1CJ0●●●



DL1CE●●●



DL1CF●●●



XBFX13



ZBZ8

Bulbs with BA 9s base fitting and associated accessories

| Description | Specifications | Color | Sold in lots of | Reference unit | Weight kg |
|--------------------------|---|--------|-----------------|----------------|-----------|
| LEDs | ≈ 24 V | White | 1 | DL1CJ0241 | 0.002 |
| | | Green | 1 | DL1CJ0243 | 0.002 |
| | | Red | 1 | DL1CJ0244 | 0.002 |
| | | Orange | 1 | DL1CJ0245 | 0.002 |
| | | Blue | 1 | DL1CJ0246 | 0.002 |
| | ≈ 48 V | Green | 1 | DL1CJ0483 | 0.002 |
| | | Red | 1 | DL1CJ0484 | 0.002 |
| | | Orange | 1 | DL1CJ0485 | 0.002 |
| | 6 V - 1.2 W | White | 1 | DL1CD0061 | 0.002 |
| | | Green | 1 | DL1CD0063 | 0.002 |
| Red | | 1 | DL1CD0064 | 0.002 | |
| Orange | | 1 | DL1CD0065 | 0.002 | |
| Blue | | 1 | DL1CD0066 | 0.002 | |
| Incandescent bulbs | 6 V - 1.2 W | – | 10 | DL1CB006 | 0.002 |
| | 24 V - 2 W | – | 10 | DL1CE024 | 0.002 |
| | 120 to 130 V 2.4 W | – | 10 | DL1CE130 | 0.002 |
| Neon bulbs | 120 to 130 V | – | 10 | DL1CF110 | 0.002 |
| | 230 to 240 V | – | 10 | DL1CF220 | 0.002 |
| Bulb extractor | – | – | 1 | XBFX13 | 0.005 |
| Lens cap tightening tool | Illuminated push buttons, with flush push | – | 1 | ZBZ8 | 0.009 |

Harmony™ XB4 metal 22 mm push buttons

Accessories for push buttons

Keys

Replacement keys

| Description | Key number | Reference | Weight kg |
|--|------------|-----------|--------------|
| For latching mushroom head push buttons and selector switches | | | |
| Sets of 2 keys | 455 | ZBG455 | 0.013 |
| | 421E | ZBG421E | 0.014 |
| | 458A | ZBG458A | 0.014 |
| | 520E | ZBG520E | 0.014 |
| | 3131A | ZBG3131A | 0.014 |
| | 4A185 | ZBDA185 | 0.014 |
| | LU1 | ZBDLU1 | 0.014 |
| | LU2 | ZBDLU2 | 0.014 |
| | LU3 | ZBDLU3 | 0.014 |
| | LU4 | ZBDLU4 | 0.014 |
| | LU5 | ZBDLU5 | 0.014 |
| | LU6 | ZBDLU6 | 0.014 |
| | LU7 | ZBDLU7 | 0.014 |
| | LU8 | ZBDLU8 | 0.014 |
| | LU9 | ZBDLU9 | 0.014 |
| | LU10 | ZBDLU10 | 0.014 |
| | LU11 | ZBDLU11 | 0.014 |
| | LU12 | ZBDLU12 | 0.014 |
| | LU13 | ZBDLU13 | 0.014 |
| | LU14 | ZBDLU14 | 0.014 |
| | 8D1 | ZBD8D1 | 0.014 |

For booted selector switches

| | | | |
|---|-------|-----------|---|
| Sets of 2 keys, one of which supplied booted (rubber boot) | 455 | ZBG455P | – |
| | 421E | ZBG421EP | – |
| | 458A | ZBG458AP | – |
| | 520E | ZBG520EP | – |
| | 3131A | ZBG3131AP | – |



ZBG455P

Accessory for key switches (1)

| Description | Function | Reference | Weight kg |
|---------------------------------|---|-----------|--------------|
| Keyhole cover (rubber cover) | Protection of lock barrel when no key inserted in lock | ZBGP | 0.005 |

Boot for standard handle

| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|-----------------------------|--------------|--------------------|-------------------|--------------|
| Boot for standard handle | ZB4BD●● | 5 | ZBDD2 | 0.005 |

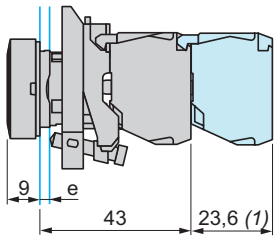
(1) Not compatible with products with key TEC10.

Harmony™ XB4 metal 22 mm push buttons

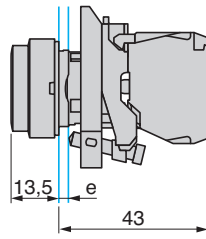
Push buttons, switches and pilot lights:
complete units, XB4B

Push buttons, spring return

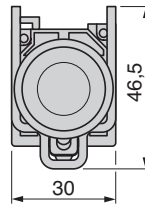
XB4BA●●



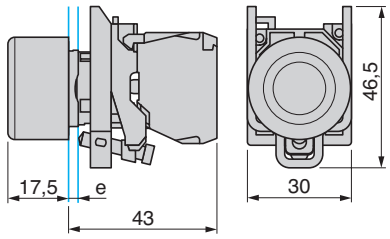
XB4BL●●



Common face view



XB4BP●●

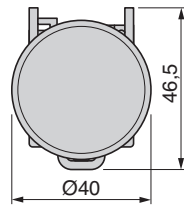
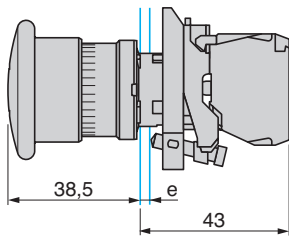


e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head push buttons, spring return

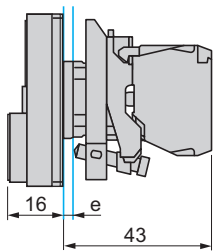
XB4BC21



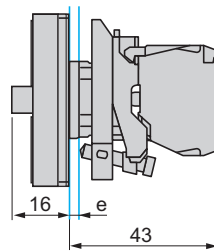
e: clamping thickness: 1 to 6 mm

Multiple-headed push buttons (double or triple), spring return

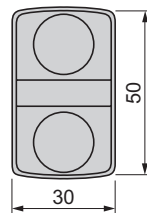
XB4BL73415, XB4BW73731●5



XB4BA731327, XB4BA711237



Common face view

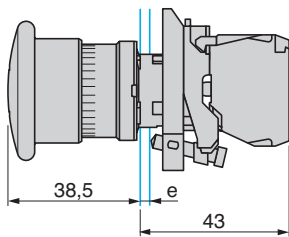


e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head push buttons, trigger action and mechanical latching

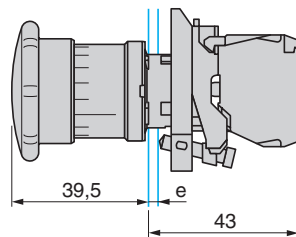
Push-pull

XB4BT845



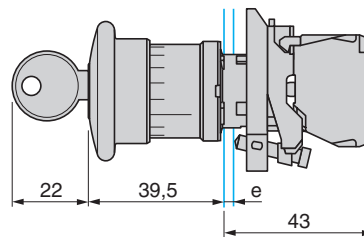
Turn to release

XB4BS84441, BS8444, BS8445

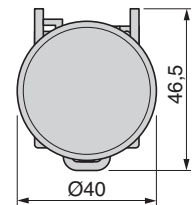


Key release

XB4BS9445



Common face view



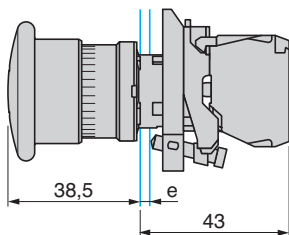
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head push buttons, mechanical latching

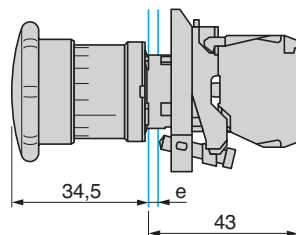
Push-pull

XB4BT42



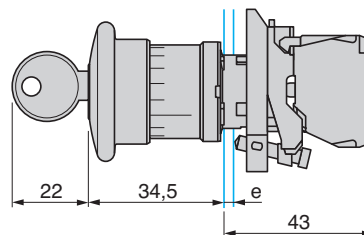
Turn to release

XB4BS542

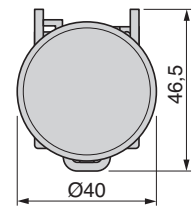


Key release

XB4BS142



Common face view



e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

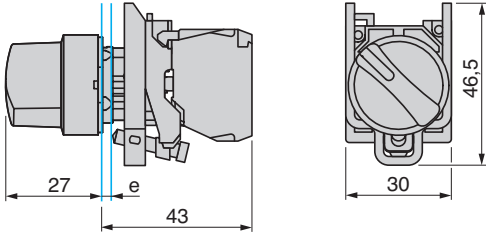
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB4B

Selector switches

Standard handle operator

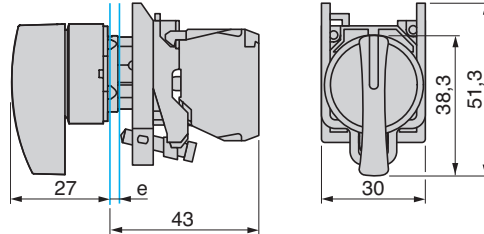
XB4BD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

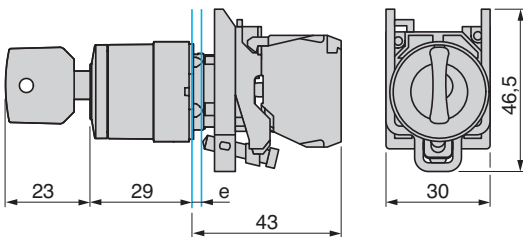
XB4BJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB4BG●●



e: clamping thickness: 1 to 6 mm

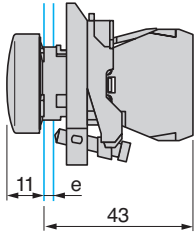
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB4B

Pilot lights

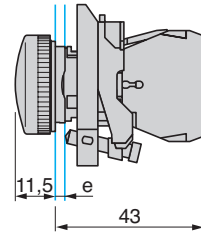
Integral LED

XB4BVB●, BVG●, BVM●



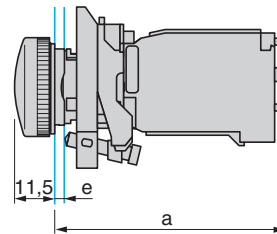
Direct supply

XB4BV6●

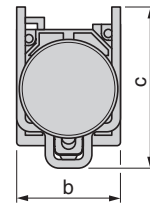


Via integral transformer

XB4BV3●, BV4●



Common face view



| | a | b | c |
|----------|------|----|------|
| XB4BV●● | 66 | 30 | 46.5 |
| XB4BV5B● | 89.6 | 40 | 46.5 |

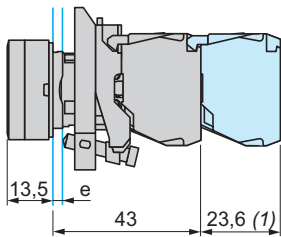
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated push buttons, spring return

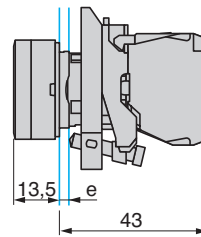
Integral LED

XB4BWB3●●5



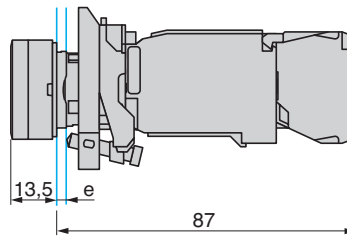
Direct supply

XB4BW3●65

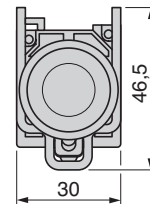


Via integral transformer

XB4BW3●●5



Common face view



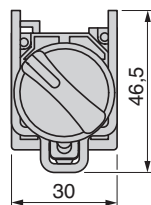
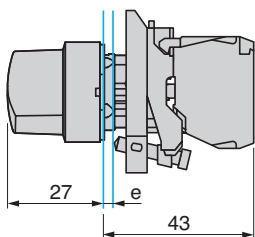
e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact

e: clamping thickness: 1 to 6 mm

Illuminated selector switches

Integral LED

XB4BK12●●5

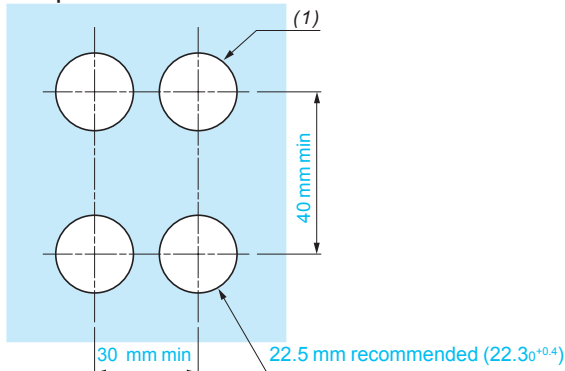


e: clamping thickness: 1 to 6 mm

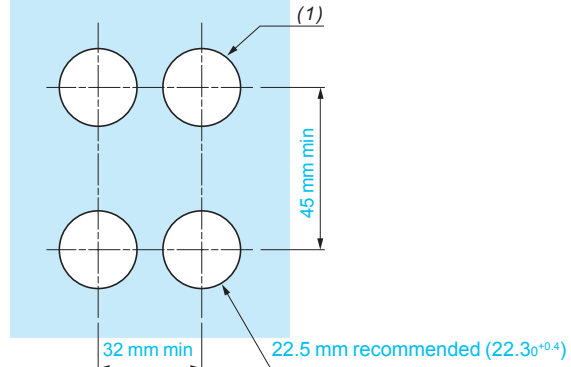
e: clamping thickness: 1 to 6 mm

Panel cut-out for push buttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors
or on printed circuit board



Connection by Faston® connectors



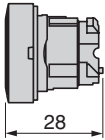
(1) Diameter on finished panel or support.

Harmony™ XB4 metal 22 mm push buttons

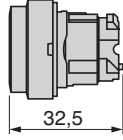
Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

Heads for spring return push buttons

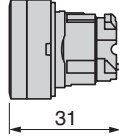
ZB4BA●,
ZB4BA●●●ZB4BA●8



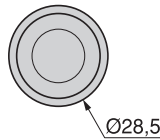
ZB4BL●, ZB4BL●●●



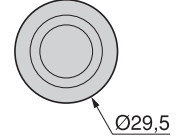
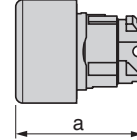
ZB4BA●4, ZB4BA●6



Common face view



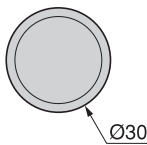
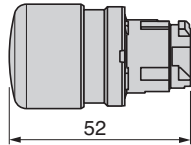
ZB4BP●●, ZB4BP●S, ZB4BP●83, ZB4BP●



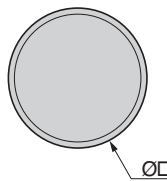
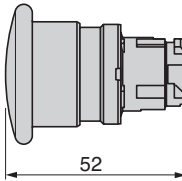
| | |
|-------|------|
| ZB4 | a |
| BP●● | 36.5 |
| BP●S | 33 |
| BP●83 | 32 |
| BP● | 35 |

Mushroom heads for spring return push buttons

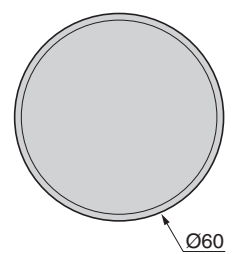
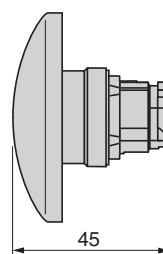
ZB4BC●4



ZB4BC●, ZB4BR●



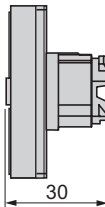
ZB4BR●16



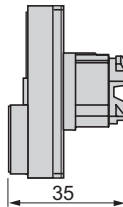
| ZB4 | Dia. (mm) |
|-----|-----------|
| BC● | 40 |
| BR● | 60 |

Heads for double-headed, spring return push buttons

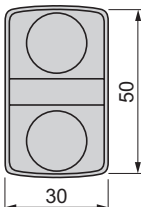
ZB4BA712●,
ZB4BA734●,
ZB4BA79



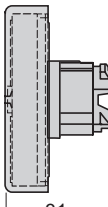
ZB4BL734●



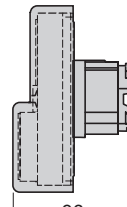
Common face view



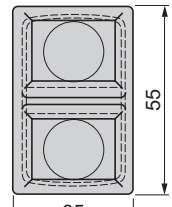
ZB4BA712●,
ZB4BA734●,
ZB4BA79
+ boot ZBA708



ZB4BL734●
+ boot ZBA710

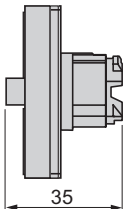


Common face view

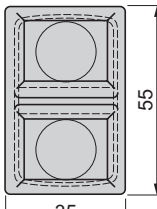
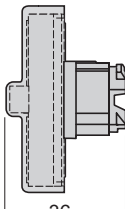
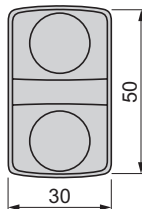


Heads for triple-headed, spring return push buttons

ZB4BA7313●, ZB4BA711●●,
ZB4BA72124, ZB4BA791



ZB4BA7313●,
ZB4BA711●●,
ZB4BA72124,
ZB4BA791
+ boot ZBA709



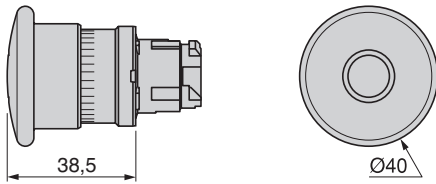
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

Mushroom heads for Emergency stop, trigger action and mechanical latching push buttons
Mushroom heads for Emergency switching off, mechanical latching push buttons

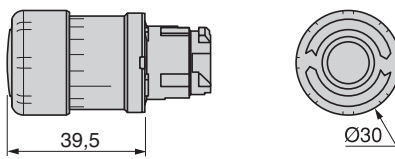
Push-pull

ZB4BT84, ZB4BT4

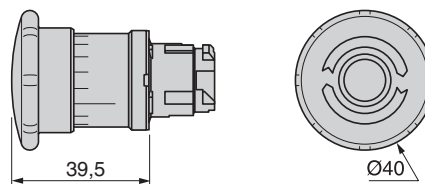


Turn to release

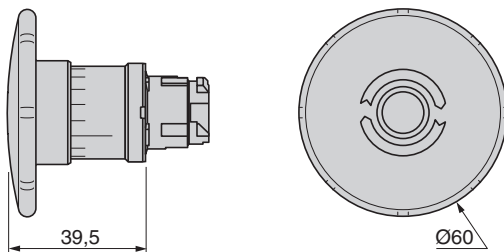
ZB4BS834, ZB4BS44



ZB4BS844, ZB4BS54

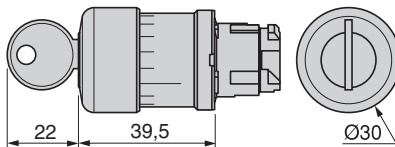


ZB4BS864, ZB4BS64

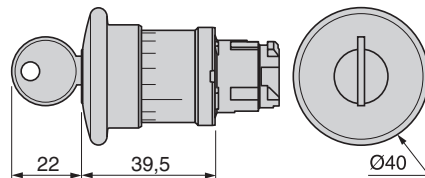


Key release

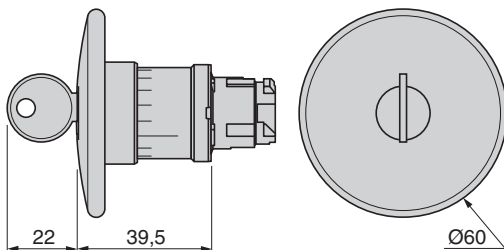
ZB4BS934, ZB4BS74



ZB4BS944, ZB4BS14



ZB4BS964, ZB4BS24



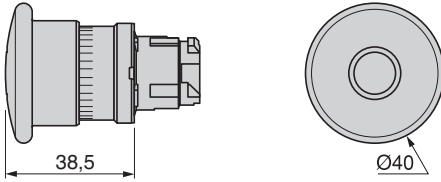
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

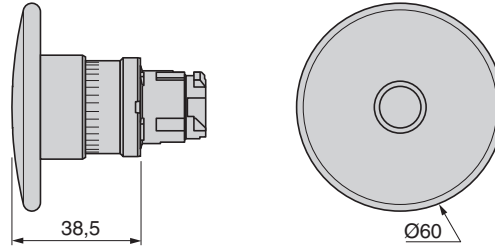
Mushroom heads for latching push buttons (1)

Push-pull

ZB4BT2

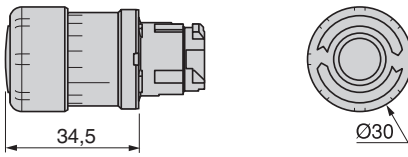


ZB4BX2

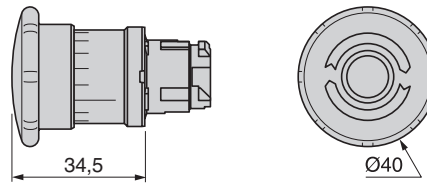


Turn to release

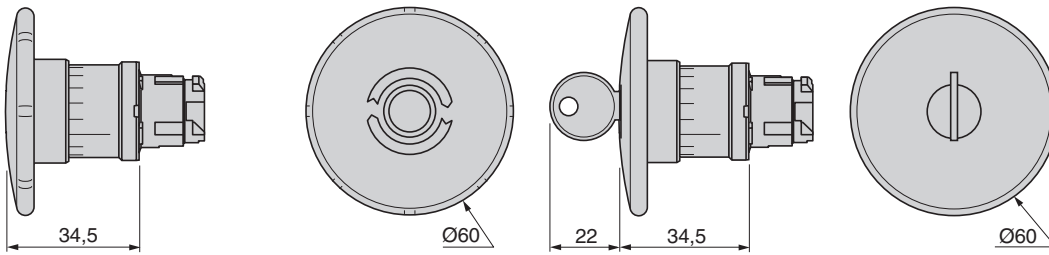
ZB4BS42



ZB4BS52, ZB4BS55

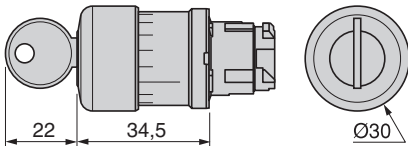


ZB4BS62

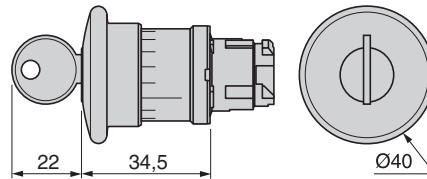


Key release

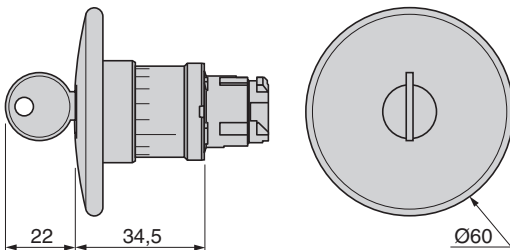
ZB4BS72



ZB4BS12



ZB4BS22



(1) Red mushroom heads for Emergency stop and Emergency switching off, latching push buttons: see page 76.

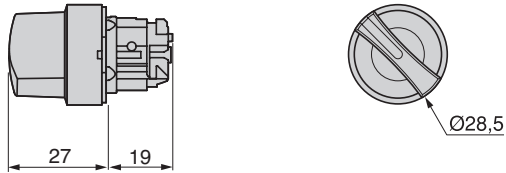
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

Heads for selector switches

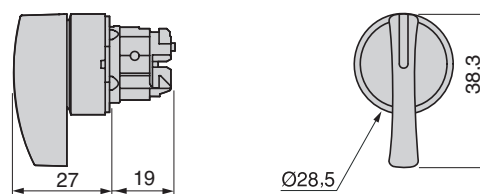
Standard handle operator

ZB4BD●, ZB4BD0●M



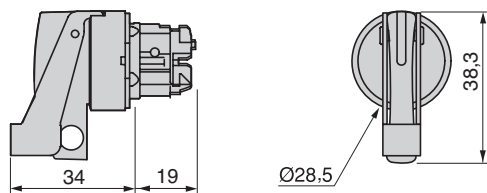
Long handle operator

ZB4BJ●, ZB4BD0●M



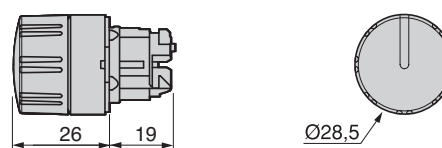
Padlockable long handle operator (6.35 mm shank max.)

ZB4BJ●9●



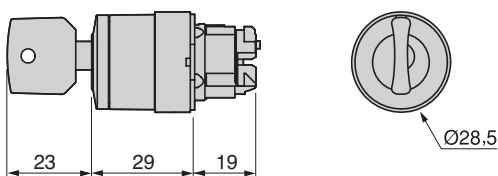
Black knurled knob

ZB4BD●9



Key switches

ZB4BG●, ZB4BG0●, ZB4BG0●M



Heads for toggle switches

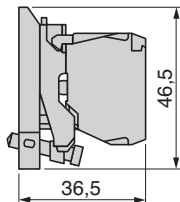
ZB4BD●8



Bodies for push buttons and switches

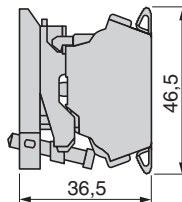
Screw clamp terminal connections

ZB4BZ10●, ZB4BZ141



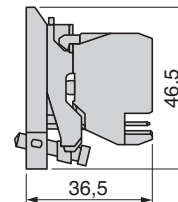
Spring terminal connections

ZB4BZ10●5



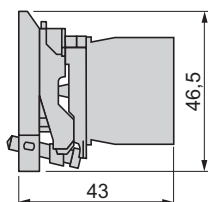
Plug-in connector

ZB4BZ10●4, ZB4BZ1414



High power switching with screw clamp terminal connections

ZBE50● block + ZB4BZ009 body



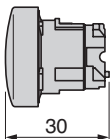
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B and ZBV

Heads for pilot lights, with light source

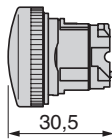
Integral LED

ZB4BV0●3, ZB4BV0●3S

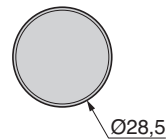


Incandescent, neon or LED

ZB4BV0●, ZB4BV0●S



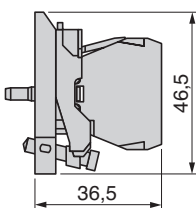
Common face view



Bodies for pilot lights, screw clamp terminal connections

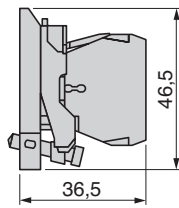
Integral LED

ZB4BV●●



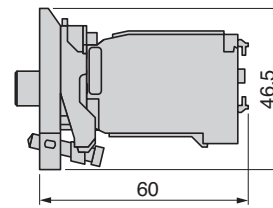
Direct supply, for BA 9s bulb

ZB4BV6



Via integral transformer, for BA 9s bulb

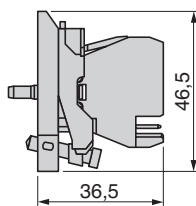
ZB4BV●, ZB4BV●D●



Light block + body/mounting collar for pilot lights, plug-in connector

Integral LED

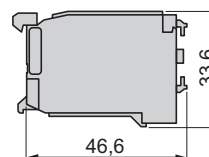
ZBV●●4 light block + ZB4BZ009 body/mounting collar



Transformer blocks

For 24 V light blocks with integral LED

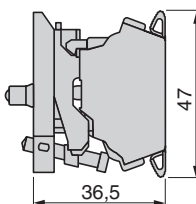
ZBV 5B, ZBV 8B, ZBV 9B



Light block + body/mounting collar for pilot lights, spring terminal connections

Integral LED

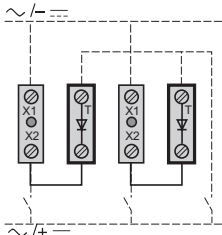
ZBV●●5 light block + ZB4BZ009 body/mounting collar



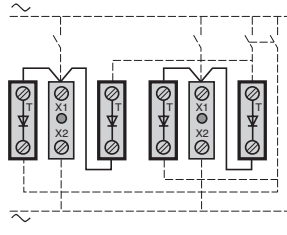
Connections

Blocks for "remote test light" function

ZBZG156



ZBZM156



Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB4B

Heads for spring return illuminated push buttons, for light source types

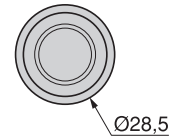
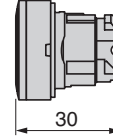
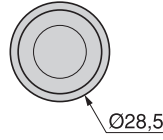
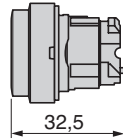
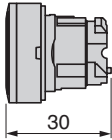
LED

ZB4BW3●3, ZB4BW3●3S
ZB4BW5●3, ZB4BA●8

ZB4BW1●3, ZB4BL●8

Common face view

ZB4BW9●3

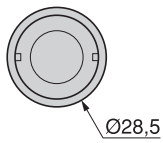
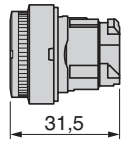
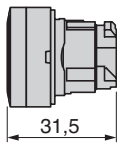


Incandescent or neon

ZB4BW3●3, ZB4BW3●S

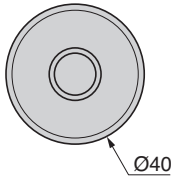
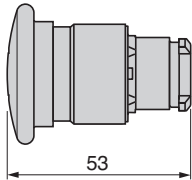
ZB4BW1●

Common face view



Heads for 40 mm mushroom head illuminated push buttons with LED

ZB4BW4●3, ZB4BW6●3

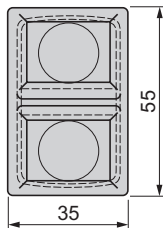
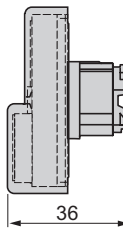
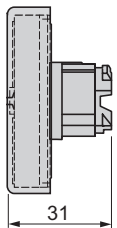


Heads for double-headed push buttons + pilot light

ZB4BW7A374●,
ZB4BW7A17●●,
ZB4BW7A9

ZB4BW7L374●

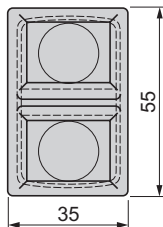
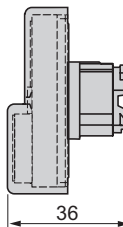
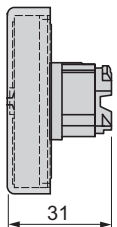
Common face view



ZB4BW7A374●,
ZB4BW7A17●●,
ZB4BW7A9
+ boot ZBA 708

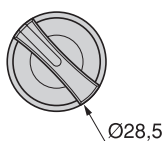
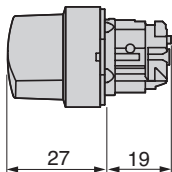
ZB4BW7L374●
+ boot ZBA 710

Common face view



Heads for illuminated selector switches with standard handle

ZB4BK1●●●3



Harmony™ XB4 metal 22 mm push buttons

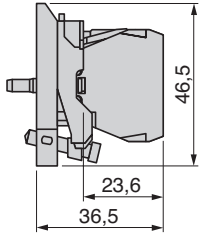
Push buttons, switches and pilot lights:
complete units, XB4B

Bodies for illuminated push buttons and switches

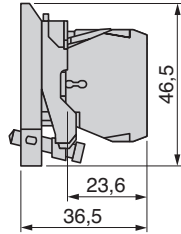
Screw clamp terminal connections

Integral LED

ZB4BW0●●●

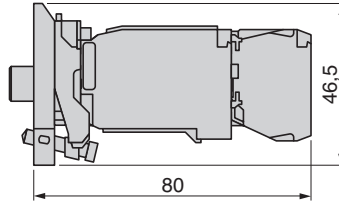


ZB4BW06●



Via integral transformer, BA 9s bulb

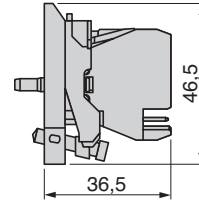
ZB4BW0●●, BW0●D●●



Plug-in connector

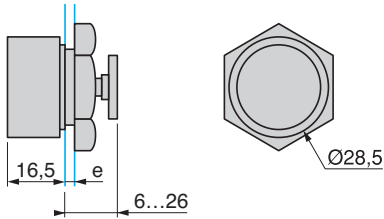
Integral LED

ZB4BW0●●●4

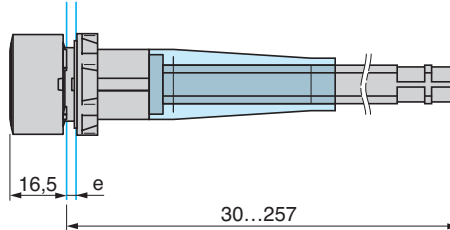


Manual overload reset buttons

XB4BA8●●



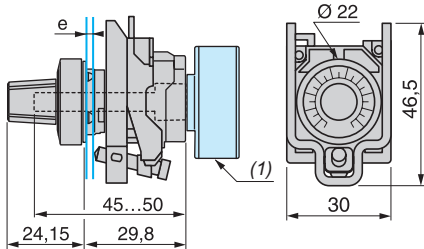
XB4BA9●●



e: panel thickness 1 to 6 mm

Heads + mounting base for potentiometer

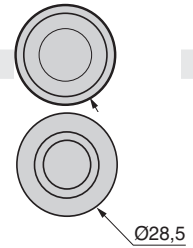
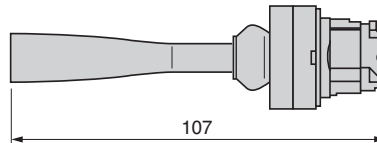
ZB4BD9●2



(1) Potentiometer not included.

Wobble stick head

ZB4BB●

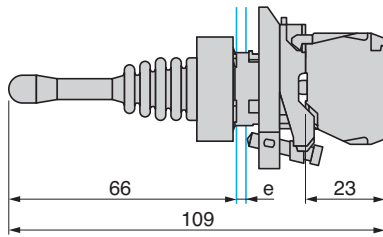


Harmony™ XB4 metal 22 mm push buttons

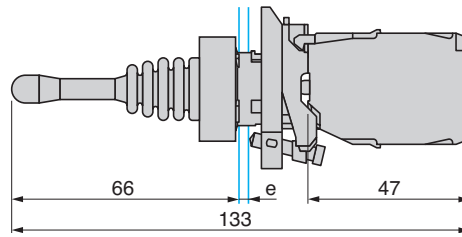
Push buttons, switches and pilot lights:
complete units, XB4B

Joystick controllers

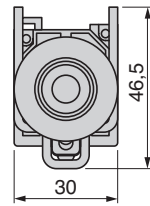
XD4 PA●2



XD4 PA●4



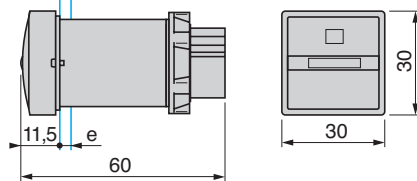
Common face view



e: panel thickness 1 to 6 mm

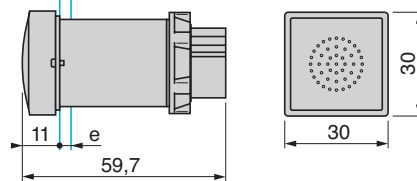
Hour counters

XB5 DS●



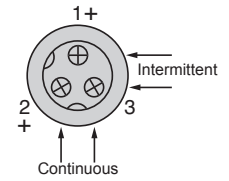
Annunciators

XB5 KS●



Cabling

XB5 KS●



e: panel thickness 1 to 6 mm

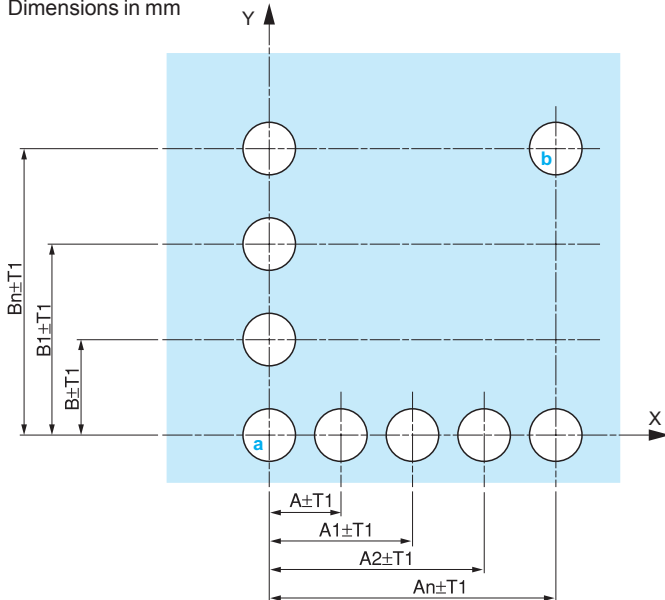
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights:
for printed circuit board connection

Push buttons, switches and pilot lights for printed circuit board connection

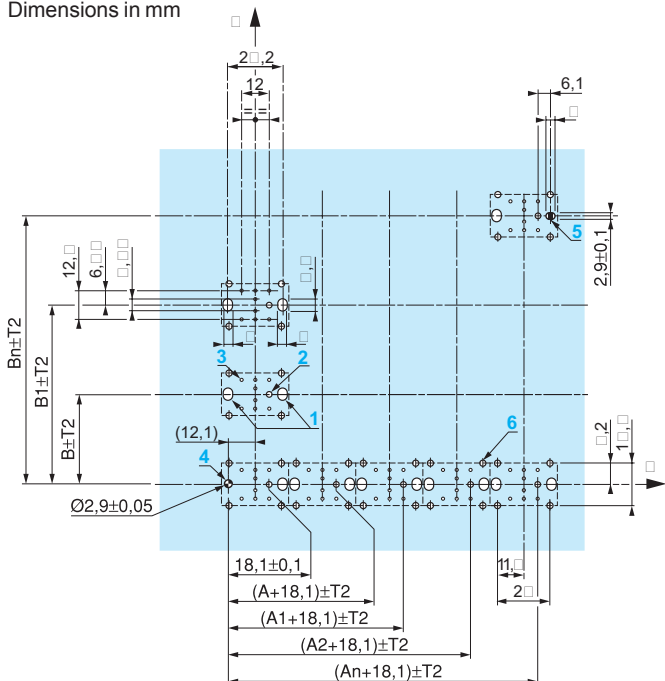
Panel cut-outs (viewed from installer's side)

Dimensions in mm



Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



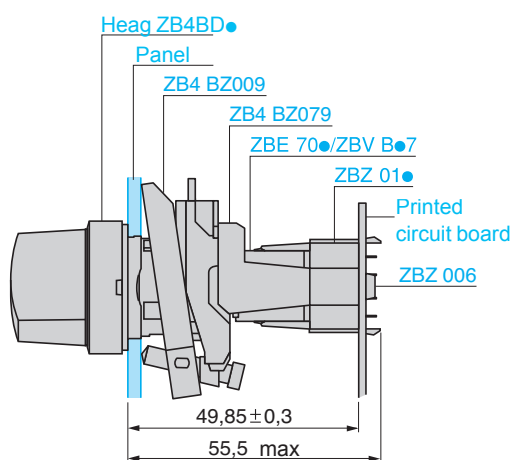
General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm: $T1 + T2 = 0.3$ mm max.

Installation information:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter: $22.4 \text{ mm} \pm 0.1$ mm.
- Orientation of body/mounting collar ZB4BZ009: $\pm 2^\circ 30'$ (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m. max.
- Allow for one ZB4BZ079 mounting collar/pillar and its mounting screws:
 - every 90 mm horizontally (X), and 120 mm vertically (Y).
 - with each selector switch head (ZB4BD●, ZB4BJ●, ZB4BG●).

The mounting centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



Mounting of adapter (socket) ZBZ01●:

- 1** 2 elongated holes for ZBZ006 screw access.
- 2** 1 hole $2.4 \text{ mm} \pm 0.05$ for centering adapter ZBZ01●
- 3** 8 x 1.2 mm holes.
- 4** 1 hole $2.9 \text{ mm} \pm 0.05$, for aligning the printed circuit board (with cut-out marked **a**).
- 5** 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6** 4 holes 2.4 mm for clipping in adapter ZBZ01●.

Dimensions $An + 18.1$ relate to the $2.4 \text{ mm} \pm 0.05$ holes for centering adapter ZBZ01●.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

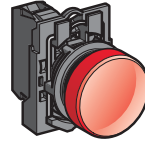
Description

The 22 mm product range of plastic (double insulated) control and signaling units is comprised of:

Complete units, XB5A

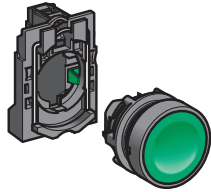


Push buttons and switches

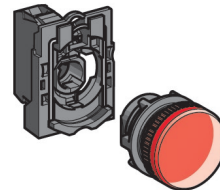


Pilot lights

Sub-assemblies, ZB5A

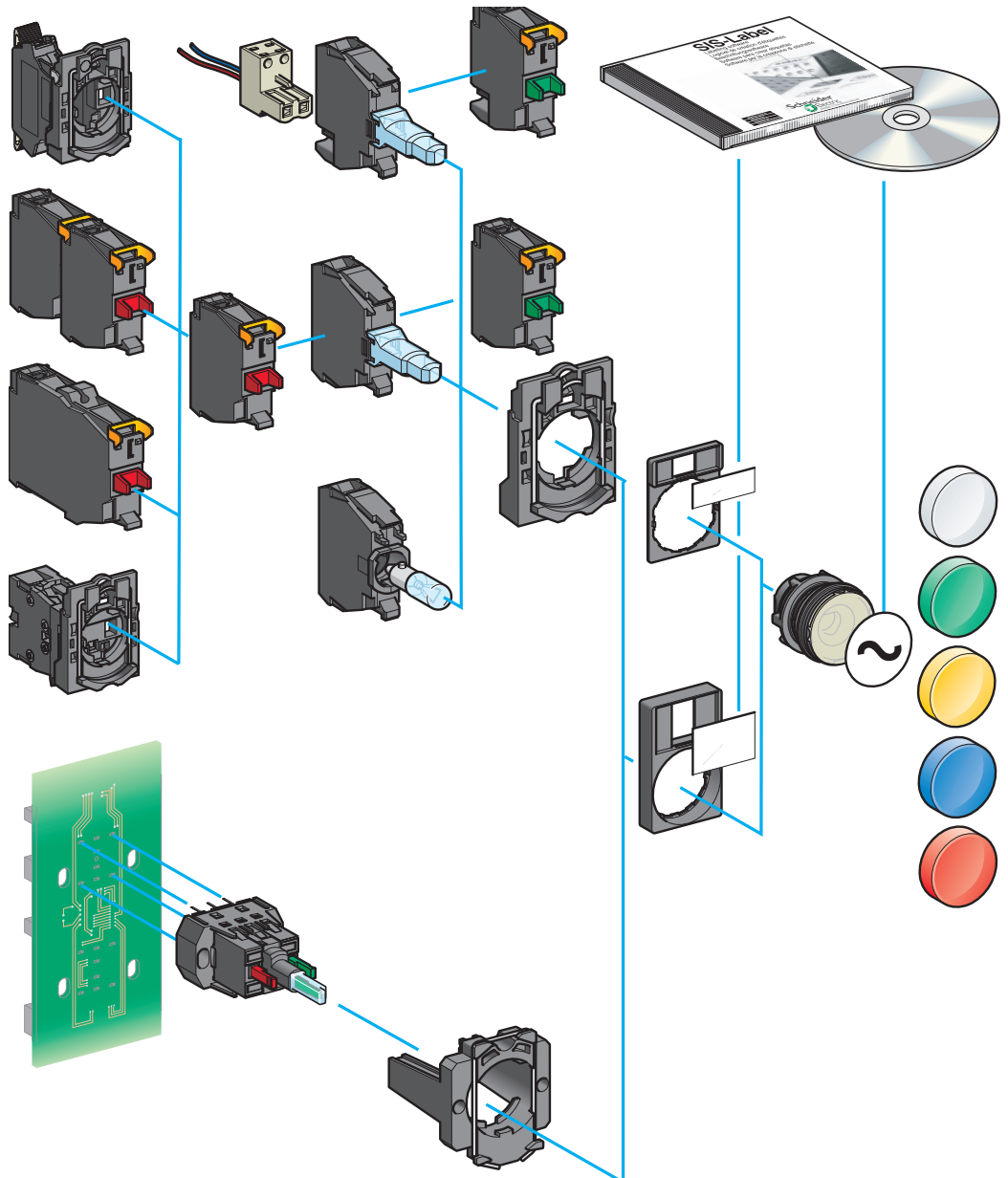


Push buttons and switches:
body + head sub-assemblies



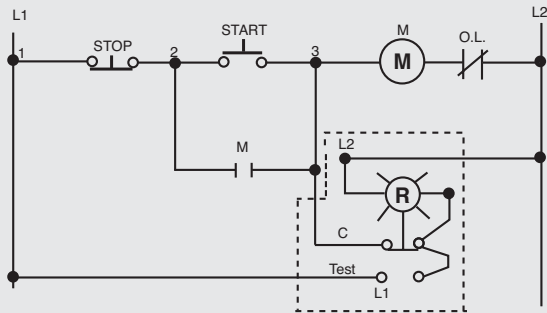
Pilot lights:
body + head sub-assemblies

ZB component parts and accessories

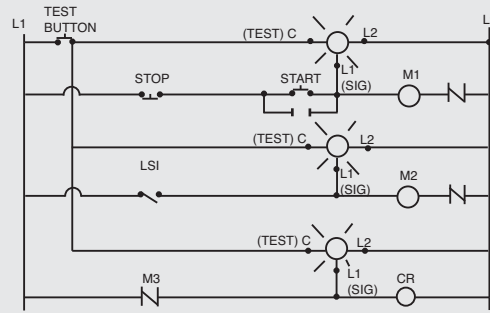


Schematic library

Typical wiring diagrams



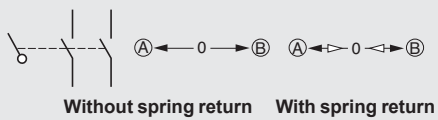
Push-To-Test Pilot Light



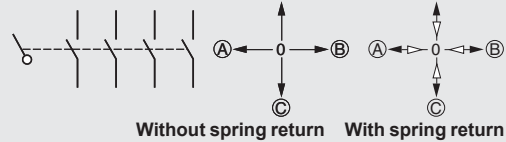
Remote Test Pilot Light

Joystick controller functions

2 direction



4 direction



Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB5A

Complete units

Contact functions

Push buttons, spring return



Flush push, unmarked
XB5AA●1/AA42
see page 98



Flush push, with marking
XB5AA3311/AA33●1
see page 102



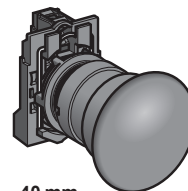
Projecting push, with marking
XB5AL4322
see page 102



Booted flush push
XB5AP●1/AP42
see page 101

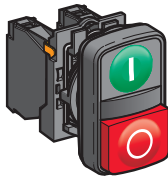


Projecting push, unmarked
XB5AL42
see page 100

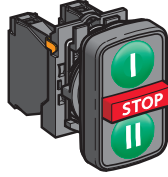


40 mm
Mushroom head
XB5AC21
see page 108

Multiple-headed push buttons, spring return

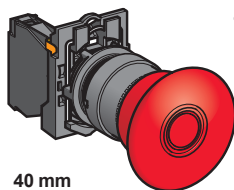


Double-headed
XB5AL73415
see page 106

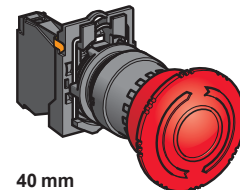


Triple-headed
XB5AA731327/XB5AA711237
see page 107

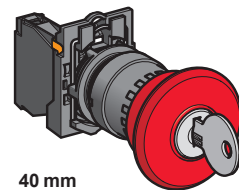
**Emergency Stop or
Emergency switching off
mushroom head push
buttons, 40 mm**



40 mm



40 mm



40 mm

**Emergency stop trigger
action and mechanical
latching**

Push-pull (EN/ISO 13850: 2006)
XB5AT845
see page 110

Turn to release (EN/ISO 13850: 2006)
XB5AS8●4
see page 110

Key release (EN/ISO 13850: 2006)
XB5AS9445
see page 110

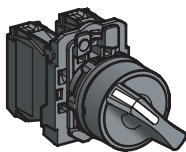
**Emergency switching off
mechanical latching**

Push-pull (IEC 60364-5-53)
XB5AT42
see page 111

Turn to release (IEC 60364-5-53)
XB5AS542
see page 111

Key release (IEC 60364-5-53)
XB5AS142
see page 111

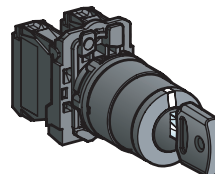
**Selector switches
and key switches**



Standard handle, black
XB5AD●●
see page 113



Long handle, black
XB5AJ●●
see page 113



Key switch
XB5AG●●
see page 114

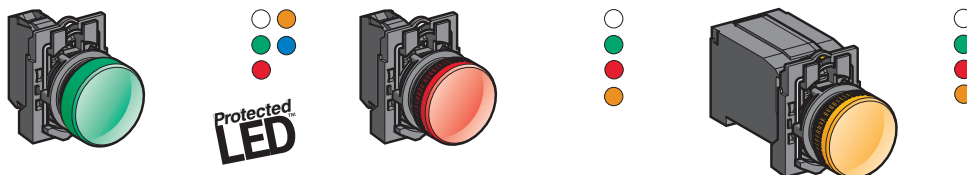
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB5A

Complete units (continued)

Signaling functions

Pilot lights



Integral LED

XB5AVB●/AVG●/AVM●
see page 118

For bulb with BA 9s base fitting
Direct supply

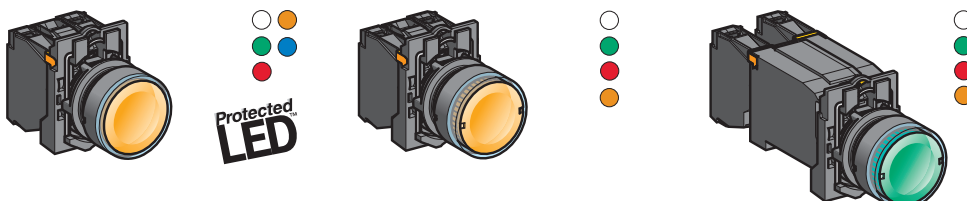
XB5AV6●
see page 119

Via integral transformer

XB5AV3●/AV4●
see page 119

Combined functions (contact + signaling)

Illuminated push buttons, spring return, flush push



Integral LED

XB5AW3●B5/AW3●G5/AW3●M5
see page 103

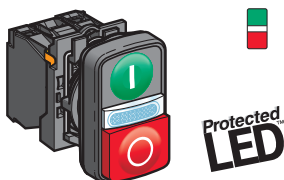
For bulb with BA 9s base fitting
Direct supply

XB5AW3●65
see page 99

Via integral transformer

XB5AW3●35/AW3●45
see page 105

Double-headed push buttons, spring return, + pilot light block



Integral LED

XB5AW73731●5
see page 106

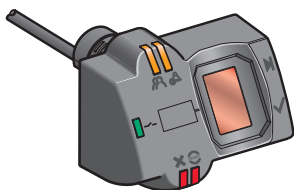
Illuminated selector switches, standard handle



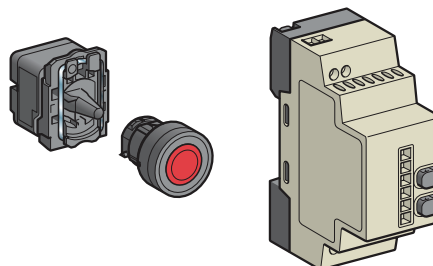
Integral LED

XB5AK12●●5, XB5AK13●●5
see page 116

Fingerprint reader biometric switches



Wireless, batteryless push buttons



Bistable or monostable type, 24 Vdc

XB5S●B●●●●
see page 167

Wireless, batteryless push buttons
24 Vdc or 24 to 240 Vac/Vdc

XB5R●●●●
see page 183

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

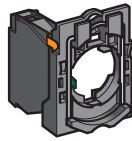
Non-illuminated units for user assembly

For push buttons,
spring return, unmarked

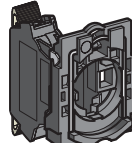
Body sub-assemblies



Screw clamp terminals
ZB5AZ10●/AZ141
page 122



Faston®
ZB5AZ10●3
page 126



Spring clamp
terminals
ZBE 10●5
ZB5AZ10●5
page 124

For push buttons,
spring return, with marking

For multiple-headed push
buttons, spring return

For “push-turn to release”
push buttons

Contact functions

Head sub-assemblies



Flush push without
cap/with set of 6 caps
ZB5AA0/AA9
page 98

Flush push
ZB5AA●
page 98

Flush push for
insertion of legend
ZB5AA●8
page 98

Flush push, cap
mounted/not mounted
ZB5CA0/CA●
page 98



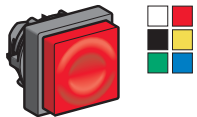
Projecting
ZB5AL●
page 100



Recessed push
ZB5AA●
page 99



Booted flush push,
for insertion of legend
ZB5AP●●/AP●S
page 100



Projecting or
recessed push
ZB5CA●/CL●
page 99



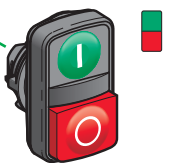
Flush push
ZB5AA●3●/AA●4●
page 102



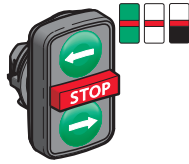
Projecting push
ZB5AL●
page 102



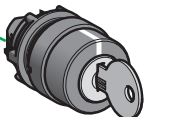
Flush push
ZB5CA●3●/ CA●9●
page 102



Double-headed
ZB5AA7●●●/AA79
ZB5AL734●
page 106



Triple-headed
ZB5AA7313●, ZB5AA711●●
ZB5AA72124, ZB5AA791
page 107

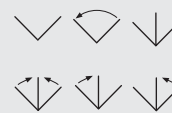


Key switches
ZB5AFD●
page 112



Knurled knob (1)
ZB5AF
page 112

(1) Knob positions

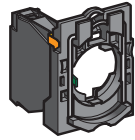


Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

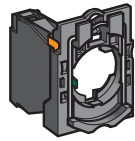
**Non-illuminated units
for user assembly**
(continued)

For mushroom head push buttons



Screw clamp terminals
ZB5AZ10●/AZ141
page 122

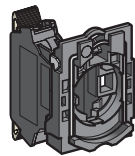
For Emergency Stop or
Emergency switching off
mushroom head push buttons



Faston®
ZB5AZ10●3
page 126

Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching



Spring clamp terminals
ZBE 10●5
ZB5AZ10●5
page 124

Emergency stop trigger
action and mechanical
latching

Emergency switching off
mechanical latching

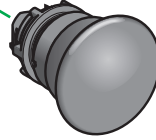
For selector switches
and key switches

For toggle switches

Contact functions (continued)

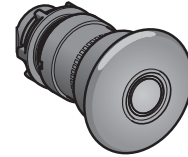
Body sub-assemblies

Head sub-assemblies



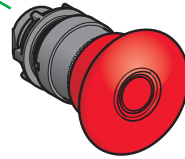
Ø 30
Ø 40
Ø 60

Spring
ZB5AC●/AR●
see page 108



Ø 30
Ø 40
Ø 60

Latching
ZB5A●2/AS●2/AS55
see page 109



Ø 30
Ø 40
Ø 60

Push-pull (EN/ISO 13850: 2006)
ZB5AT84
see page 110

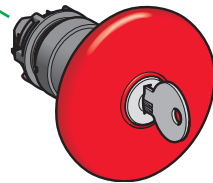


Ø 30
Ø 40
Ø 60

Turn to release (EN/ISO 13850: 2006)
ZB5AS8●4
see page 110

Push-pull (IEC 60364-5-53)
ZB5AT●/AX●
see page 111

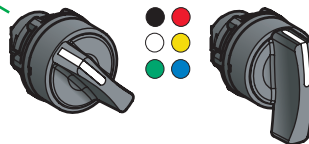
Turn to release (IEC 60364-5-53)
ZB5AS44/AS54/AS64
see page 111



Ø 30
Ø 40
Ø 60

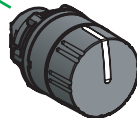
Key release (EN/ISO 13850: 2006)
ZB5AS9●4/AS944D, see page 110

Key release (IEC 60364-5-53)
ZB5AS●4/AS14D, see page 111

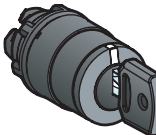


Standard handle (1)
ZB5AD●
page 113

Long black handle (1)
ZB5AJ●
page 113

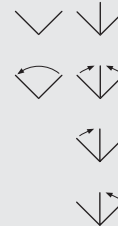


Knurled black knob (1)
ZB5AD●9
page 115

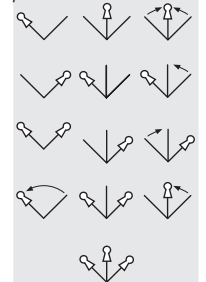


Key switch (2)
ZB5AG●●
page 115

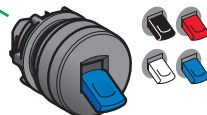
(1) Switch handle
and knob
positions



(2) Key switch positions
Key withdrawal
positions



(3) Lever positions



2-position lever (3)
ZB5AD●8
see page 115

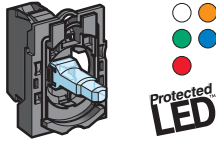
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

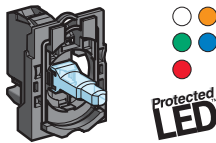
Pilot lights for user assembly

Signaling functions

Body sub-assemblies with integral LED

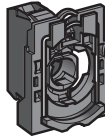


Connection: screw clamp terminals
ZB5AVB/AVG/AVM
see page 130

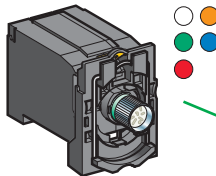


Connection: plug-in connector
Please consult your Regional
Sales Office

Body sub-assemblies for BA 9s bulb

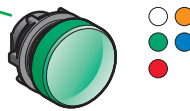


Direct supply
Connection: screw clamp terminals
ZB5AV6, page 133



Via integral transformer
Connection: screw clamp terminals
ZB5AV●/AV3D●/AV5D●
page 133

Head sub-assemblies



With lens fitted (insertion of legend)
ZB5AV0●3/AV0●3E, see page 118



With lens fitted
ZB5CV0●3, see page 118



With 5 lens caps (not fitted) for insertion of legend
ZB5AV003/AV0●3●, see page 118



With 5 separate lens caps, not fitted
ZB5CV003, see page 118

Head sub-assemblies

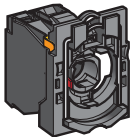


With lens fitted
ZB5AV0●, see page 119

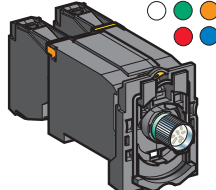
Illuminated push buttons for user assembly

Combined functions (contact + signaling)

Body sub-assemblies for BA 9s bulb

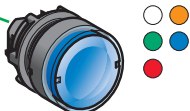


Direct supply
Connection: screw clamp terminals
ZB5AW06●, page 132

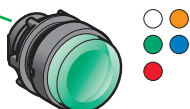


Via integral transformer
Connection: screw clamp terminals
ZB5AW03/4/5/3D/4D/5D
see page 122

Head sub-assemblies



Flush
ZB5AW3●/AW3●S, see page 104



Projecting
ZB5AW1●/AW1●S, see page 104

For illuminated push buttons,
spring return

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

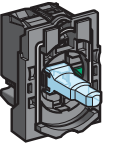
Illuminated push buttons for user assembly

For illuminated push buttons, spring return

Body sub-assemblies with integral LED

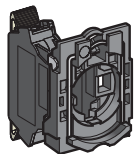


Connection: screw clamp terminals
ZB5AW0B/AW0G/AW0M
see page 104



Connection: plug-in connector

Please consult your Regional Sales Office



Connection: spring clamp terminals
ZBV ●●5
see page 124

For double-headed push buttons, spring return, with pilot light

For illuminated, mushroom head push buttons, latching

For illuminated mushroom head push buttons

- Emergency Stop with trigger action and mechanical latching
- or
- Emergency switching off with mechanical latching only

Combined functions (contact + signaling) (continued)

Head sub-assemblies



Flush push
Flush push with illuminated ring
ZB5AW3●3/AW3●3S/AW9●3
see page 104



Flush push
for insertion of legend
ZB5AA●8
see page 104



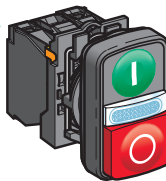
Booted flush push
ZB5AW5●3
see page 104



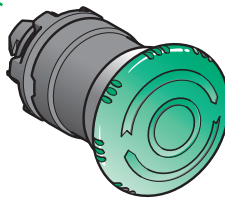
Projecting push
ZB5AW1●3/AW1●3S
see page 104



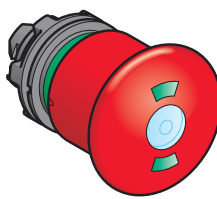
Flush or projecting push
Flush or projecting push for insertion of legend
ZB5CW3●3/CW1●3
see page 104



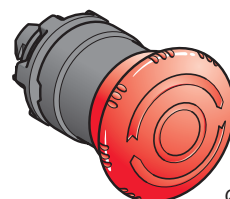
Double-headed (flush/flush push) + central pilot light
Double-headed (flush/projecting push) + central pilot light
ZB5AW7A17●●, ZB5AW7A374●, ZB5AW7A9, see page 106
ZB5AW7L374●, see page 106



Turn to release
ZB5AW7●3, see page 109



Push-pull with mechanical state indicator (EN/ISO 13850:2006)
ZB5AT8643M
see page 110



Turn to release (IEC 60364-5-53)
ZB5AW743
see page 111

(1) Handle positions



Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

| Environment | | | |
|---|-------------------------------------|----|---|
| Protective treatment | Standard version | | "TH" treatment |
| Ambient air temperature around the device | Storage | °C | - 40 to + 70 |
| | Operation | °C | - 25 to + 70: LED and neon bulb versions - 25 to + 55: incandescent bulb version |
| Electric shock protection | Conforming to IEC 61140 | | Class II |
| Degree of protection | Conforming to IEC 60529 | | IP 66 IP 69 K (Selector switches and multiple-headed push buttons) IP 54 (Emergency stop illuminated, trigger action and mechanical latching push buttons with mechanical state indicator) |
| | Conforming to NEMA | | NEMA type 4X and 13, unless otherwise stated |
| Resistance to high pressure washer | | Pa | 70 x 10 ⁵ (70 bar); distance: 0.1 m Temperature: 55 °C |
| Mechanical shock protection | Conforming to IEC 50102 | | Non-illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06 |
| Conforming to standards | | | EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC60204-1 and EN/ISO 13850: 2006 (Emergency stop trigger action and mechanical latching push buttons, see page 110) IEC60364-5-53 (Emergency switching off mechanical latching push buttons, see page 110) EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching push buttons with mechanical state indicator, see page 110) JIS C4520, UL 508, CSA C22-2 no. 14 |
| Product certifications | UL Listed, CSA | | Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5PA/ZD5PA: A600; R300 Special contact blocks: □ ZBE201: A300; Q300 □ ZBE202: A600; Q600 Single contacts for high power switching: □ ZBE501 and ZBE 502: A300; P300 |
| | UL Recognized, CSA | | Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300 |
| | BV, RINA, LROS, DNV, GL | | Standard single contacts and double contacts with screw clamp or spring terminals: |
| Terminal referencing | Conforming to EN 50005 and EN 50013 | | |

Specifications of contact or combined contact and signaling functions (see page 96)

| Mechanical specifications | | | |
|--|---|----|--|
| Contact operation | N/C or N/O | | Slow break |
| Positive operation | Conforming to EN/IEC 60947-5-1 appendix K | | All functions incorporating a N/C contact have positive opening operation |
| Operating travel (to change the electrical state) | Push button | mm | Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3 |
| Operating force | Push button | N | Changing N/C state: 3.5 Changing N/O state: 3.8 |
| | Additional contact only (extra to change state) | N | Single N/C contact: 2 Single N/O contact: 2.3 |
| | | N | Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6 |
| Emergency stop or Emergency switching off with N/C + N/O | | N | Standard push-pull: 45 Trigger action push-pull: 50 |
| | | N | Standard turn to release and key release: 40 Trigger action turn to release and key release: 44 |

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of contact or combined contact and signaling functions (continued) (see page 96)

Mechanical specifications (continued)

| | | | |
|---|---|----------------------|--|
| Operating torque (to change the electrical state) | Selector switches | N.m | N/O contact: 0.14 |
| | Additional contact only | N.m | N/O contact: 0.05 |
| Mechanical durability (in millions of operating cycles) | Push button | Spring return | 5 |
| | | Multiple-headed | 1 |
| | | Push-push to release | 0.5 |
| | Selector switch | Non-illuminated | 1 |
| | | Illuminated | 0.5 |
| | Toggle switch | | 0.5 |
| | Emergency stop or Emergency switching off push button | | 0.3 with 4 contacts 0.3 with 2 contacts (Emergency stop with mechanical state indicator) |
| | Joystick controller | | 1 |
| Standard contact block only | | 5 | |
| Low power switching contact block only (dust protected) | | 0.5 | |
| Vibration resistance | Conforming to IEC 60068-2-6 | | Frequency: 2 to 500 Hz: 5 gn |
| Mechanical shock resistance | Conforming to IEC 60068-2-27 | | All functions except mushroom head push buttons, spring return: <input type="checkbox"/> half sine wave acceleration 11 ms: 50 gn <input type="checkbox"/> half sine wave acceleration 18 ms: 30 gn Spring return mushroom head push button: <input type="checkbox"/> half sine wave acceleration 11 ms: 15 gn |

Electrical specifications

| | | | |
|--|--------------------------------|-----------------------|---|
| Cabling capacity | Conforming to IEC 60947-1 | mm² | Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Phillips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end |
| Contact material | Silver alloy (Ag / Ni) | | Standard single and double blocks with screw clamp or spring terminals Blocks for plug-in connector Standard blocks for printed circuit board connection |
| | Gold flashed (Ag / Ni / Au) | | Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection |
| Short-circuit protection | Conforming to EN/IEC 60947-5-1 | A | Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1) |
| Rated thermal current | Conforming to EN/IEC 60947-5-1 | A | Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6 |
| Rated insulation voltage | Conforming to EN/IEC 60947-1 | V | Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston® connectors Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to IEC 60947-1 | kV | Standard single and double blocks with screw clamp or spring terminals: Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching: Uimp = 4 |

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of contact or combined contact and signaling functions (continued) (see page 96)

Electrical specifications (continued)

| | | | |
|--|---|---|--|
| Rated operational specifications Conforming to EN/IEC 60947-5-1 | a.c. supply: utilization category AC-15 | | Standard single and double blocks with screw clamp or spring terminals A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A Special contact blocks: □ ZBE201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A Contact blocks for high power switching: □ ZBE50●: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A |
| | d.c. supply: utilization category DC-13 | | Standard single and double blocks with screw clamp or spring terminals Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A Joystick controllers XD5PA/ZD5PA: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Special contact blocks: □ ZBE201: Q300; Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE202: Q600; Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A Contact blocks for high power switching: □ ZBE50●: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A |
| Specifications of special contact blocks | Low power switching | | VA P max: 12 A I max: 0.1 V U max: 24 |
| | High power switching conforming to EN/IEC 60947-5-1 | 100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour | VA P max: 240 A I max: 10 V U: 24 ~ |
| Electrical durability Conforming to EN/IEC 60947-5-1 appendix C Operating rate 3600 operating cycles/hour Load factor: 0.5 | a.c. supply for 1 million operating cycles utilization category AC-15 | V 24 120 230 A 4 3 2 | Standard single blocks with screw clamp terminals or spring terminals: |
| | | V 24 120 230 A 3 1.5 1 | Standard double blocks with screw clamp terminals and blocks for plug-in connector: |
| | d.c. supply for 1 million operating cycles utilization category DC-13 | V 24 110 A 0.5 0.2 | Standard single blocks with screw clamp terminals or spring terminals: |
| | | V 24 110 A 0.4 0.15 | Standard double blocks with screw clamp terminals and blocks for plug-in connector: |
| Electrical reliability Failure rate Conforming to EN/IEC 60947-5-4 | In clean environment | | Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$ Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$ |
| | In dusty environment | | Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$ |

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

Specifications of illuminated units (pilot lights)

Mechanical specifications

| | | | |
|---------------------------|------------------------------|--|--|
| Vibration resistance | Conforming to IEC 60068-2-6 | | Frequency: 12 to 500 Hz: 5 gn |
| Electric shock resistance | Conforming to IEC 60068-2-27 | | Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn |

Electrical specifications

| | | | |
|---------------------------------|------------------------------|-----------------|---|
| Cabling capacity | Conforming to EN/IEC 60947-1 | mm ² | Screw clamp and spring terminals Min: 1 x 0.2 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end |
| Rated insulation voltage | Conforming to EN/IEC 60947-1 | V | Direct supply pilot light blocks (BA 9s bulb): U _i = 250 degree of pollution 3 Pilot light blocks with integral LED: U _i = 250 degree of pollution 3 Pilot light blocks with transformer: U _i = 600 degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV | Direct supply pilot light blocks (BA 9s bulb): U _{imp} = 4 Pilot light blocks with integral LED: U _{imp} = 4 Pilot light blocks with transformer: U _{imp} = 6 |

Specific specifications of single light blocks with integral LED

| | | | |
|--|---|-----|--|
| Voltage limits | For rated voltage | V | 12 V: 10 to 15 ~; 10.2 to 13.8 ~ 24 V: 19.2 to 15 ~; 21.6 to 13.8 ~ 24 to 120 V: 19.2 to 132 ~; 21.6 to 132 ~ 48 to 120 V: 40 to 132 ~ 230/240 V: 195 to 264 ~ |
| Current consumption | Applicable to all colors | mA | Blocks with ~ 12 V supply: 18 Blocks with ~ 24 V supply: 18 Blocks with ~ 120 V supply: 14 Blocks with ~ 240 V supply: 14 |
| Service life | At rated voltage and at an ambient temperature of 25 °C | H | 100 000 |
| Surge withstand | Conforming to IEC 61000-4-5 | kV | 1 |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 2 |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3 | V/m | 10 |
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8: in free air, in insulating parts 6: on contact, on metal parts |
| Direct parallel connection across inductive load e.g.: contactor coil or solenoid | Maximum power of load | VA | For high power applications (≥ 30 VA), a ZBZV LED suppressor must be connected across the light block terminals (see page 123) |
| Electromagnetic emission | Conforming to IEC 55011 | | Class B |

Specific specifications

Mounting nut

| | | | |
|------------------------|--|-----|-------------|
| Head tightening torque | | N.m | 2.2 (± 0.2) |
|------------------------|--|-----|-------------|

Hour counters and annunciators

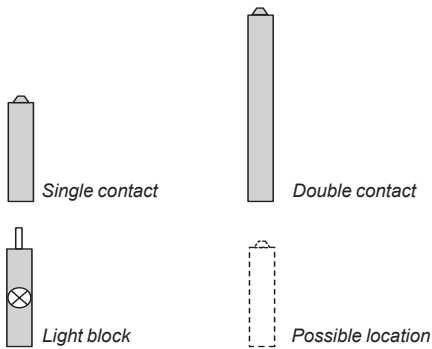
| | | | |
|---------------------|------------------------------|----|---|
| Voltage limits | Hour counter and annunciator | V | ± 10% of the nominal voltage |
| Current consumption | Hour counter | mA | XB5DSB: 7 to 15 XB5DSG: 8 XB5DSM: 8 |
| | Annunciator | mA | 5 |

Harmony™ XB5 plastic 22 mm push buttons

Contact mounting - Contact sequence

Maximum recommended configurations guaranteeing achievement of catalog specifications

| Unit type (complete units XB5B, heads ZB5 B) | Push buttons, spring return XB5AA●, ZB5AA●8, (except ZB5AA●8) XB5AC●, ZB5AC●, XB5AL●, ZB5AL●, XB5AP●, ZB5AP●, ZB5AR● Triple-headed push buttons XB5AA731327, XB5AA711137, ZB5AA7313●, ZB5AA7111●, ZB5AA72124, ZB5AA791 | Double-headed push buttons XB5AL73415, ZB5AA712●, ZB5A●734●, ZB5AA79 | Illuminated push buttons, spring return XB5AW●, ZB5AW●, ZB5AA●8 Double-headed push buttons + pilot light block XB5AW73731●5, ZB5AW7A17●●, ZB5AW7●374●, ZB5AW7A9 | |
|---|---|--|--|-----------------------|
| Solution using single contacts | | | | |
| Solution using single and double contacts | | | | |
| Maximum recommended configurations | Single contacts Double contacts + Single contacts Light block | 9 3 + 3 - | 6 2 + 2 - | 6 2 + 2 1 |



Possible configurations for high power switching contacts (1) (2)

High power switching contact blocks with screw clamp terminal connections :
ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505
High power switching contact blocks with connection by Faston® connectors
ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

| | | |
|-------|-------|---|
| | | |
| 1 N/O | 1 N/C | 1 N/O + N/C 1 N/O + N/O 1 N/C + N/C |

(1) The configurations are not upgradable and cannot be combined with other types of contact and signaling functions.

(2) High power switching contacts are not compatible with Harmony triple-headed push buttons.











| Emergency stop or Emergency switching off XB5AT●, ZB5AT●, XB5AS●, ZB5AS● | | Selector switches XB5AD●, ZB5AD●, ■ Standard handle XB5AJ●, ZB5AJ●, ■ Long handle ZB5AD●9, ■ Key switch XB5AG●, ZB5AG● | | | Illuminated selector switches with standard handle XB5AK●, ZB5AK● Illuminated Emergency Stop ZB5AT8643M, ZB5AW743 | | Toggle switches ZB5AD●8 Push buttons, push-turn to release, knurled operator ZB5AF●, or lockable ZB5FAD● | |
|--|---|---|---|---|--|---|---|--|
| | | | | | | | | |
| | | | | | | | | |
| 4 | 4 | 5 | 4 | 6 | 4 | 6 | | |
| 2 | 1 | 2 | 1 | 2 | 2 | 3 | | |
| + | + | + | + | + | + | + | | |
| 0 | 2 | 1 | 2 | 2 | 0 | 0 | | |
| - | - | - | - | - | 1 | - | | |

Sequence of contacts fitted to selector switch bodies

| Unit type | | | Selector switches | | | | | | | | | | | | | | |
|---------------------------|----------|--------|-------------------|--|-----|------------|------|--|----------|--|-----|----------|--|--|-------|--|--|
| | | | 2-position | | | 3-position | | | | | | | | | | | |
| | | | 315° | | 45° | | 315° | | 0° | | 45° | | | | | | |
| Push | Position | Top | | | | | | | | | | | | | | | |
| | | Bottom | | | | | | | | | | | | | | | |
| | | | Location | | | Location | | | Location | | | Location | | | | | |
| | | | State | | | State | | | State | | | State | | | | | |
| Contacts | | | N/O | | | N/O | | | N/O | | | N/O | | | | | |
| | | | N/C | | | N/C | | | N/C | | | N/C | | | | | |
| L left, C center, R right | | | L C R | | | L C R | | | L C R | | | L C R | | | | | |
| □ open, ■ closed | | | □ □ □ | | | ■ ■ ■ | | | ■ ■ □ | | | □ □ □ | | | □ ■ ■ | | |

Harmony™ XB5 plastic 22 mm push buttons Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

| Push buttons with flush push ⁽¹⁾ | | | | | | |
|---|---|---|---|---------------|---------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of push | Type of contact | | Color of push | Reference | Weight |
| | |  N/O |  N/C | | | |
| Complete units | | | | | | |
|  | Flush | 1 | - | White | XB5AA11 (ZB5AZ101 + ZB5AA1) | 0.037 |
| | | | | Black | XB5AA21 (ZB5AZ101 + ZB5AA2) | 0.037 |
| | | | | Green | XB5AA31 (ZB5AZ101 + ZB5AA3) | 0.037 |
| | | | | Yellow | XB5AA51 (ZB5AZ101 + ZB5AA5) | 0.037 |
| | | | | Blue | XB5AA61 (ZB5AZ101 + ZB5AA6) | 0.037 |
| | | | | Red | XB5AA42 (ZB5AZ102 + ZB5AA4) | 0.037 |
| | | - | 1 | | | |
| Heads only, circular | | | | | | |
|  | Without cap ⁽²⁾ | | | | ZB5AA0 | 0.022 |
|  | Flush, with set of 6 colored caps | | | | 6 colors ⁽³⁾ ZB5AA9 | 0.027 |
|  | Flush | | White | | ZB5AA1 | 0.018 |
| | | | Black | | ZB5AA2 | 0.018 |
| | | | Green | | ZB5AA3 | 0.018 |
| | | | Red | | ZB5AA4 | 0.018 |
| | | | Yellow | | ZB5AA5 | 0.018 |
| | | | Blue | | ZB5AA6 | 0.018 |
|  | Flush with transparent cap for insertion of legend ⁽⁴⁾ | | Grey | | ZB5AA8 | 0.018 |
| | | | White | | ZB5AA18 | 0.018 |
| | | | Green | | ZB5AA38 | 0.018 |
| | | | Red | | ZB5AA48 | 0.018 |
| | | | Yellow | | ZB5AA58 | 0.018 |
| | | | Blue | | ZB5AA68 | 0.018 |
|  | Flush (high bezel) | | White | | ZB5AA14 | 0.020 |
| | | | Black | | ZB5AA24 | 0.020 |
| | | | Green | | ZB5AA34 | 0.020 |
| | | | Red | | ZB5AA44 | 0.020 |
| | | | Yellow | | ZB5AA54 | 0.020 |
| | | | Blue | | ZB5AA64 | 0.020 |
| Heads only, square | | | | | | |
|  | Without cap ⁽²⁾ | | | | ZB5CA0 | 0.022 |
|  | Flush | | White | | ZB5CA1 | 0.019 |
| | | | Black | | ZB5CA2 | 0.019 |
| | | | Green | | ZB5CA3 | 0.019 |
| | | | Red | | ZB5CA4 | 0.019 |
| | | | Yellow | | ZB5CA5 | 0.019 |
| | | | Blue | | ZB5CA6 | 0.019 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) Colored cap to be ordered separately: see page 134.

(3) Head supplied with 6 different colored caps (white, black, green, red, yellow, blue) not fitted.

(4) For legend ordering information, see page 138.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic



22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138



ZB5AA16

| Push buttons with recessed push ⁽¹⁾ | | | | |
|---|-----------------------|--------|----------------|-----------|
| High guard | | | | |
| Shape of head | Type of push | Color | Reference | Weight kg |
| Heads only, circular | | | | |
|  | Recessed (high guard) | White | ZB5AA16 | 0.020 |
| | | Black | ZB5AA26 | 0.020 |
| | | Green | ZB5AA36 | 0.020 |
| | | Red | ZB5AA46 | 0.020 |
| | | Yellow | ZB5AA56 | 0.020 |
| | | Blue | ZB5AA66 | 0.020 |
| Heads only, square | | | | |
|  | Recessed (high guard) | White | ZB5CA16 | 0.012 |
| | | Black | ZB5CA26 | 0.012 |
| | | Green | ZB5CA36 | 0.012 |
| | | Red | ZB5CA46 | 0.012 |
| | | Yellow | ZB5CA56 | 0.012 |
| | | Blue | ZB5CA66 | 0.012 |



ZB5CA16






⁽¹⁾ Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic

22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

| Push buttons with projecting push ⁽¹⁾ | | | | | | |
|---|--------------|---|---|---------------|---------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of push | Type of contact | | Color of push | Reference | Weight |
| | |  |  | | | |
| | | N/O | N/C | | | kg |
| Complete units | | | | | | |
|  | Projecting | – | 1 | Red | XB5AL42 (ZB5AZ102 + ZB5AL4) | 0.038 |
| Heads only, circular | | | | | | |
|  | Projecting | | | White | ZB5AL1 | 0.019 |
| | | | | Black | ZB5AL2 | 0.019 |
| | | | | Green | ZB5AL3 | 0.019 |
| | | | | Red | ZB5AL4 | 0.019 |
| | | | | Yellow | ZB5AL5 | 0.019 |
| | | | | Blue | ZB5AL6 | 0.019 |
| Heads only, square | | | | | | |
|  | Projecting | | | White | ZB5CL1 | 0.021 |
| | | | | Black | ZB5CL2 | 0.021 |
| | | | | Green | ZB5CL3 | 0.021 |
| | | | | Red | ZB5CL4 | 0.021 |
| | | | | Yellow | ZB5CL5 | 0.021 |
| | | | | Blue | ZB5CL6 | 0.021 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.



XB5AL42



ZB5AL3



ZB5CL1

Harmony™ XB5 plastic

22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see page 138



XB5AP51



ZB5AP48



ZB5APA3



ZB5AP4



ZB5AP2S



ZB5AP183

Push buttons with booted head (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of push | Type of contact | | Color of push | Reference | Weight |
|-----------------------|---|-----------------|-----|---------------|---------------------------------------|--------|
| | | N/O | N/C | | | |
| Complete units | | | | | | |
| | Booted, clear silicone (color of push unobscured) | 1 | - | Black | XB5AP21 (ZB5AZ101 + ZB5AP2) | 0.039 |
| | | | | Green | XB5AP31 (ZB5AZ101 + ZB5AP3) | 0.039 |
| | | | | Yellow | XB5AP51 (ZB5AZ101 + ZB5AP5) | 0.039 |
| | | | | Blue | XB5AP61 (ZB5AZ101 + ZB5AP6) | 0.039 |
| | | - | 1 | Red | XB5AP42 (ZB5AZ102 + ZB5AP4) | 0.039 |

Silicone booted heads only, with increased protection (IP 69K)

| | | | | | |
|--|------------|---|--------|----------------|-------|
| | Flush | Clear boot (2) For insertion of protected legend within head (3) | White | ZB5AP18 | 0.023 |
| | | | Green | ZB5AP38 | 0.023 |
| | | | Red | ZB5AP48 | 0.023 |
| | | | Yellow | ZB5AP58 | 0.023 |
| | | | Blue | ZB5AP68 | 0.023 |
| | Flush | Clear boot (2) | White | ZB5APA1 | 0.023 |
| | | | Black | ZB5APA2 | 0.023 |
| | | | Green | ZB5APA3 | 0.023 |
| | | | Red | ZB5APA4 | 0.023 |
| | | | Yellow | ZB5APA5 | 0.023 |
| | | | Blue | ZB5APA6 | 0.023 |
| | Projecting | Clear boot (2) | White | ZB5AP1 | 0.014 |
| | | | Black | ZB5AP2 | 0.014 |
| | | | Green | ZB5AP3 | 0.014 |
| | | | Red | ZB5AP4 | 0.014 |
| | | | Yellow | ZB5AP5 | 0.014 |
| | | | Blue | ZB5AP6 | 0.014 |

Silicone booted heads only, standard for with legend holder (IP 66)

| | | | | | |
|--|-------|---|--------|-----------------|-------|
| | Flush | Colored boot (4) | White | ZB5AP1S | 0.021 |
| | | | Black | ZB5AP2S | 0.021 |
| | | | Green | ZB5AP3S | 0.021 |
| | | | Red | ZB5AP4S | 0.021 |
| | | | Yellow | ZB5AP5S | 0.021 |
| | | | Blue | ZB5AP6S | 0.021 |
| | Flush | Clear membrane (4) For insertion of protected legend within head (3) | White | ZB5AP183 | 0.010 |
| | | | Green | ZB5AP383 | 0.010 |
| | | | Red | ZB5AP483 | 0.010 |
| | | | Yellow | ZB5AP583 | 0.010 |
| | | | Blue | ZB5AP683 | 0.010 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.

(3) To order a legend for insertion within the head, see page 143.

(4) Replacement of silicone protection element without dismantling head, see page 136.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons Spring return push buttons, with marking

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138



XB5AA432



ZB5AA331















ZB5AA432



ZB5CA432



ZB5AL232

| Push buttons with flush or projecting push ⁽¹⁾ | | | | | | | |
|---|----------------|--|--|---|---------------|---|------------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Shape of head | Type of push | Type of contact | | Marking Text (color) | Color of push | Reference | Weight kg |
| | |  N/O |  N/C | | | | |
| Complete units | | | | | | | |
|  | Flush | 1 | – | "I" (white) | Green | XB5AA3311 (ZB5AZ101 + ZB5AA331) | 0.037 |
|  | Flush | – | 1 | "O" (white) | Red | XB5AA4322 (ZB5AZ102 + ZB5AA432) | 0.037 |
|  | Projecting | – | 1 | "O" (white) | Red | XB5AL4322 (ZB5AZ102 + ZB5AL432) | 0.037 |
|  | Flush (2) | 1 | – | ↑ (black) | White | XB5AA3341 (ZB5AZ101 + ZB5AA334) | 0.037 |
|  | Flush (2) | 1 | – | ↓ (white) | Black | XB5AA3351 (ZB5AZ101 + ZB5AA335) | 0.037 |
| Heads only, circular | | | | | | | |
|  | Flush | | | "I" (white) | Green | ZB5AA331 | 0.018 |
| | | | | "I" (black) | White | ZB5AA131 | 0.018 |
| | | | | "II" (white) | Green | ZB5AA336 | 0.018 |
| | | | | "II" (black) | White | ZB5AA136 | 0.018 |
| | | | | "START" (white) | Green | ZB5AA333 | 0.018 |
| | | | | "START" (black) | White | ZB5AA133 | 0.018 |
| | | | | "ON" (white) | Green | ZB5AA341 | 0.018 |
| | | | | "ON" (black) | White | ZB5AA141 | 0.018 |
| | | | |  (white) | Black | ZB5AA245 | 0.018 |
| | | | |  (black) | White | ZB5AA145 | 0.018 |
| | | | | "O" (white) | Red | ZB5AA432 | 0.018 |
| | | | | | Black | ZB5AA232 | 0.018 |
| | | | | "STOP" (white) | Red | ZB5AA434 | 0.018 |
| | | | | | Black | ZB5AA234 | 0.018 |
| | | | | "OFF" (white) | Red | ZB5AA435 | 0.018 |
| | | | | | Black | ZB5AA235 | 0.018 |
| | | | | UP (black) | White | ZB5AA343 | 0.018 |
| | | | | Down (white) | Black | ZB5AA344 | 0.018 |
| | | | | ↑ (black) (2) | White | ZB5AA334 | 0.018 |
| | | | | ↓ (white) (2) | Black | ZB5AA335 | 0.018 |
| Heads only, square | | | | | | | |
|  | Flush (2) | | | "I" (white) | Green | ZB5CA331 | 0.019 |
| | | | | "O" (white) | Red | ZB5CA432 | 0.019 |
| | | | | "+" (white) | Black | ZB5CA2934 | 0.019 |
| | | | | ↑ (white) | Black | ZB5CA2912 | 0.019 |
| | | | | "R" (white) | Blue | ZB5CA6939 | 0.019 |
| Heads only, circular | | | | | | | |
|  | Projecting (2) | | | "O" (white) | Red | ZB5AL432 | 0.019 |
| | | | | | Black | ZB5AL232 | 0.019 |
| | | | | "STOP" (white) | Red | ZB5AL434 | 0.019 |
| | | | | | Black | ZB5AL234 | 0.019 |
| | | | | "OFF" (white) | Red | ZB5AL435 | 0.019 |
| | | | | | Black | ZB5AL235 | 0.019 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.





(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return,
with integral LED

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

| Illuminated push buttons with flush push ⁽¹⁾ | | | | | | | | |
|---|---|---|---|----------------|--------------------------|--|--|--|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Description | Type of contact | | Supply voltage | Color of push | Reference | Weight | |
| | |  |  | V | | | kg | |
| | | N/O | N/C | | | | | |
| Complete units - With plain lens | | | | | | | | |
|  |  Protected LED | Integral LED | 1 | 1 | ~ 24 50/60 Hz | White | XB5AW31B5 (ZB5AW0B15 + ZB5AW313) | 0.056 |
| | | | | | | Green | XB5AW33B5 (ZB5AW0B35 + ZB5AW333) | 0.056 |
| | | | | | | Red | XB5AW34B5 (ZB5AW0B45 + ZB5AW343) | 0.056 |
| | | | | | | Orange | XB5AW35B5 (ZB5AW0B55 + ZB5AW353) | 0.056 |
| | | | | | | Blue | XB5AW36B5 (ZB5AW0B65 + ZB5AW363) | 0.056 |
| | | | | | | ~ 110 to 120 50/60 Hz | White | XB5AW31G5 (ZB5AW0G15 + ZB5AW313) |
| | | | | | Green | XB5AW33G5 (ZB5AW0G35 + ZB5AW333) | 0.056 | |
| | | | | | Red | XB5AW34G5 (ZB5AW0G45 + ZB5AW343) | 0.056 | |
| | | | | | Orange | XB5AW35G5 (ZB5AW0G55 + ZB5AW353) | 0.056 | |
| | | | | | Blue | XB5AW36G5 (ZB5AW0G65 + ZB5AW363) | 0.056 | |
| | | | | | ~ 230 to 240 50/60 Hz | White | XB5AW31M5 (ZB5AW0M15 + ZB5AW313) | 0.056 |
| | | | | | Green | XB5AW33M5 (ZB5AW0M35 + ZB5AW333) | 0.056 | |
| Red | XB5AW34M5 (ZB5AW0M45 + ZB5AW343) | 0.056 | | | | | | |
| Orange | XB5AW35M5 (ZB5AW0M55 + ZB5AW353) | 0.056 | | | | | | |
| Blue | XB5AW36M5 (ZB5AW0M65 + ZB5AW363) | 0.056 | | | | | | |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.








Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return,
with integral LED




Assembly of other products using combined sub-assemblies, see page 128; accessories, see page 138



Illuminated push buttons with flush push (1)

| Shape of head | Type of push | Color | Reference | Weight (kg) |
|--|-----------------------------------|--------|-----------|-------------|
| Heads only, circular (2) - With plain lens | | | | |
|  Protected LED | Flush | White | ZB5AW313 | 0.017 |
| | | Green | ZB5AW333 | 0.017 |
| | | Red | ZB5AW343 | 0.017 |
| | | Orange | ZB5AW353 | 0.017 |
| | | Blue | ZB5AW363 | 0.017 |
|  Protected LED | Flush with illuminated ring | White | ZB5AW913 | 0.016 |
| | | Green | ZB5AW933 | 0.016 |
| | | Red | ZB5AW943 | 0.016 |
| | | Orange | ZB5AW953 | 0.016 |
| | | Blue | ZB5AW963 | 0.016 |
|  Protected LED | Flush with clear boot | White | ZB5AW513 | 0.019 |
| | | Green | ZB5AW533 | 0.019 |
| | | Red | ZB5AW543 | 0.019 |
| | | Orange | ZB5AW553 | 0.019 |
| | | Blue | ZB5AW563 | 0.019 |
|  Protected LED | Flush for insertion of legend (3) | White | ZB5AA18 | 0.018 |
| | | Green | ZB5AA38 | 0.018 |
| | | Red | ZB5AA48 | 0.018 |
| | | Orange | ZB5AA58 | 0.018 |
| | | Blue | ZB5AA68 | 0.018 |
| Heads only, circular (2) - With grooved lens (4) | | | | |
|  Protected LED | Flush | White | ZB5AW313S | 0.017 |
| | | Green | ZB5AW333S | 0.017 |
| | | Red | ZB5AW343S | 0.017 |
| | | Orange | ZB5AW353S | 0.017 |
| | | Blue | ZB5AW363S | 0.017 |
| Heads only, square (2) | | | | |
|  Protected LED | Flush (legend can be inserted) | White | ZB5CW313 | 0.023 |
| | | Green | ZB5CW333 | 0.023 |
| | | Red | ZB5CW343 | 0.023 |
| | | Orange | ZB5CW353 | 0.023 |
| | | Blue | ZB5CW363 | 0.023 |
|  Protected LED | Flush (high guard) | White | ZB5CW3136 | 0.014 |
| | | Green | ZB5CW3336 | 0.014 |
| | | Red | ZB5CW3436 | 0.014 |
| | | Orange | ZB5CW3536 | 0.014 |
| | | Blue | ZB5CW3636 | 0.014 |

Illuminated push buttons with projecting push (1)

| Shape of head | Type of push | Color | Reference | Weight (kg) |
|--|-------------------------------------|--------|-----------|-------------|
| Heads only, circular (2) - With plain lens | | | | |
|  Protected LED | Projecting | White | ZB5AW113 | 0.018 |
| | | Green | ZB5AW133 | 0.018 |
| | | Red | ZB5AW143 | 0.018 |
| | | Orange | ZB5AW153 | 0.018 |
| | | Blue | ZB5AW163 | 0.018 |
| Heads only, circular (2) - With grooved lens (4) | | | | |
|  Protected LED | Projecting | White | ZB5AW113S | 0.017 |
| | | Green | ZB5AW133S | 0.017 |
| | | Red | ZB5AW143S | 0.017 |
| | | Orange | ZB5AW153S | 0.017 |
| | | Blue | ZB5AW163S | 0.017 |
| Heads only, square (2) | | | | |
|  Protected LED | Projecting (legend can be inserted) | White | ZB5CW113 | 0.024 |
| | | Green | ZB5CW133 | 0.024 |
| | | Red | ZB5CW143 | 0.024 |
| | | Orange | ZB5CW153 | 0.024 |
| | | Blue | ZB5CW163 | 0.024 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) Only for use with bodies comprised of a light source with integral LED.

(3) For legend ordering information, see page 138.

(4) For use in bright ambient light conditions (outdoors in sunlight, for example).







Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return,
with BA 9s base fitting

Assembly of other products using combined sub-assemblies, see page 128; accessories, see page 138

| Illuminated push buttons with flush push ⁽¹⁾ | | | | | | | | | | | | |
|--|--|---|---|---|--|--|-----------------|-------|----|--------|----------------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | | | | | |
| Shape of head | Description | Type of contact | | Supply voltage | Color of push | Reference | Weight | | | | | |
| | |  N/O |  N/C | | | | | V | kg | | | |
| Complete units - With plain lens | | | | | | | | | | | | |
|  XB5AW3465 | Direct supply for bulb with BA 9s base fitting, 2.4 W max, (bulb not included) | 1 | 1 | ≤ 250 | White | XB5AW3165 (ZB5AW065 + ZB5AW31) | 0.057 | | | | | |
| | | | | | Green | XB5AW3365 (ZB5AW065 + ZB5AW33) | 0.057 | | | | | |
| | | | | | Red | XB5AW3465 (ZB5AW065 + ZB5AW34) | 0.057 | | | | | |
| | | | | | Orange | XB5AW3565 (ZB5AW065 + ZB5AW35) | 0.057 | | | | | |
| | Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting, (bulb included) | 1 | 1 | ~ 110 to 120 50/60 Hz | White | XB5AW3135 (ZB5AW035 + ZB5AW31) | 0.128 | | | | | |
| | | | | | Green | XB5AW3335 (ZB5AW035 + ZB5AW33) | 0.128 | | | | | |
| | | | | | Red | XB5AW3435 (ZB5AW035 + ZB5AW34) | 0.128 | | | | | |
| | | | | | Orange | XB5AW3535 (ZB5AW035 + ZB5AW35) | 0.128 | | | | | |
| | | | | ~ 230 50 Hz ~ 220 to 240 60 Hz | White | XB5AW3145 (ZB5AW045 + ZB5AW31) | 0.129 | | | | | |
| | | | | | Green | XB5AW3345 (ZB5AW045 + ZB5AW33) | 0.129 | | | | | |
| | | | | | Red | XB5AW3445 (ZB5AW045 + ZB5AW34) | 0.129 | | | | | |
| | | | | | Orange | XB5AW3545 (ZB5AW045 + ZB5AW35) | 0.129 | | | | | |
|  XB5AW3335 | Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting, (bulb included) | 1 | 1 | ~ 110 to 120 50/60 Hz | White | XB5AW3135 (ZB5AW035 + ZB5AW31) | 0.128 | | | | | |
| | | | | | Green | XB5AW3335 (ZB5AW035 + ZB5AW33) | 0.128 | | | | | |
| | | | | | Red | XB5AW3435 (ZB5AW035 + ZB5AW34) | 0.128 | | | | | |
| | | | | | Orange | XB5AW3535 (ZB5AW035 + ZB5AW35) | 0.128 | | | | | |
| | | | | ~ 230 50 Hz ~ 220 to 240 60 Hz | White | XB5AW3145 (ZB5AW045 + ZB5AW31) | 0.129 | | | | | |
| | | | | | Green | XB5AW3345 (ZB5AW045 + ZB5AW33) | 0.129 | | | | | |
| | | | | | Red | XB5AW3445 (ZB5AW045 + ZB5AW34) | 0.129 | | | | | |
| | | | | | Orange | XB5AW3545 (ZB5AW045 + ZB5AW35) | 0.129 | | | | | |
| | | | | | Heads only ⁽²⁾ - With plain lens | Flush | - | - | - | White | ZB5AW31 | 0.018 |
| | | | | | | | | | | Green | ZB5AW33 | 0.018 |
| | | | | | | | | | | Red | ZB5AW34 | 0.018 |
| | | | | | | | | | | Orange | ZB5AW35 | 0.018 |
| Blue | ZB5AW36 | 0.018 | | | | | | | | | | |
| | Clear | ZB5AW37 | 0.018 | | | | | | | | | |
| | Heads only ⁽²⁾ - With grooved lens ⁽³⁾ | Flush | - | - | - | White | ZB5AW31S | 0.018 | | | | |
| | | | | | | Green | ZB5AW33S | 0.018 | | | | |
| Red | | | | | | ZB5AW34S | 0.018 | | | | | |
| Orange | | | | | | ZB5AW35S | 0.018 | | | | | |
| Blue | | | | | | ZB5AW36S | 0.018 | | | | | |
| Clear | | | | | | ZB5AW37S | 0.018 | | | | | |
| Illuminated push buttons with projecting push ⁽¹⁾ | | | | | | | | | | | | |
| Heads only ⁽²⁾ - With plain lens | | | | | | | | | | | | |
|  | Projecting | - | - | - | White | ZB5AW11 | 0.017 | | | | | |
| | | | | | Green | ZB5AW13 | 0.017 | | | | | |
| | | | | | Red | ZB5AW14 | 0.017 | | | | | |
| | | | | | Orange | ZB5AW15 | 0.017 | | | | | |
| | | | | | Blue | ZB5AW16 | 0.017 | | | | | |
| | | | | | Clear | ZB5AW17 | 0.017 | | | | | |
| Heads only ⁽²⁾ - With grooved lens ⁽³⁾ | | | | | | | | | | | | |
|  | Projecting | - | - | - | White | ZB5AW11S | 0.018 | | | | | |
| | | | | | Green | ZB5AW13S | 0.018 | | | | | |
| | | | | | Red | ZB5AW14S | 0.018 | | | | | |
| | | | | | Orange | ZB5AW15S | 0.018 | | | | | |
| | | | | | Blue | ZB5AW16S | 0.018 | | | | | |
| | | | | | Clear | ZB5AW17S | 0.018 | | | | | |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) Only for use with bodies comprised of a light source with BA9s base fitting bulb (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Multiple head push buttons, spring return

User assembly of other units, using body-contacts assemblies, see page 122; combined sub-assemblies, see page 128



| Double-headed push buttons (1) | | | | | | |
|--|---|-----------------|-----|--|-------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Description | Type of contact | | Color and marking of caps (2) | Reference | Weight |
| | | | | | | kg |
| | | N/O | N/C | | | |
| Complete units | | | | | | |
| | 2 pushes (1 flush black + 1 projecting red) | 1 | 1 | White "I" on green background White "0" on red background | ZB5AL73415 | 0.053 |
| Heads only | | | | | | |
| | 2 flush black pushes | | | White background + black background, unmarked | ZB5AA7120 | 0.023 |
| | | | | Black "I" on white background White "0" on black background | ZB5AA7121 | 0.023 |
| | | | | Green background + red background, unmarked | ZB5AA7340 | 0.023 |
| | | | | White "I" on green background White "0" on red background | ZB5AA7341 | 0.023 |
| | | | | Without cap (3) | ZB5AA79 | 0.023 |
| | 1 flush black push 1 projecting red push | | | Green background + red background, unmarked | ZB5AL7340 | 0.023 |
| | | | | White "I" on green background White "0" on red background | ZB5AL7341 | 0.023 |

| Double-headed push buttons + 1 white central pilot light block (1) | | | | | | |
|--|--|-----------------|-----|--|---------------------|---------------------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Description | Type of contact | | Color and marking of caps (2) | Pilot light voltage | Weight |
| | | | | | V | kg |
| | | N/O | N/C | | | |
| Complete units | | | | | | |
| | 1 flush black push 1 projecting red push 1 white central pilot light block | 1 | 1 | White "I" on green background White "0" on red background | 24 | ZB5AW73731B5 0.066 |
| | | | | | 120 | ZB5AW73731G5 0.066 |
| | | | | | 240 | ZB5AW73731M5 0.066 |
| Heads only (5) | | | | | | |
| | 2 flush black pushes 1 clear central pilot light (4) | | | White background + black background, unmarked | | ZB5AW7A1720 0.023 |
| | | | | Black "I" on white background White "0" on black background | | ZB5AW7A1721 0.023 |
| | | | | Green background + red background, unmarked | | ZB5AW7A3740 0.023 |
| | | | | White "I" on green background White "0" on red background | | ZB5AW7A3741 0.023 |
| | | | | Black "+" on white background White "0" on black background | | ZB5AW7A1724 0.023 |
| | | | | Black "+" on white background Black "-" on white background | | ZB5AW7A1715 0.023 |
| | | | | Without cap (3) | | ZB5AW7A9 0.023 |
| | 1 flush black push 1 projecting red push 1 clear central pilot light (4) | | | Green background + red background, unmarked | | ZB5AW7L3740 0.023 |
| | | | | White "I" on green background White "0" on red background | | ZB5AW7L3741 0.023 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
 (2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
 (3) Caps to be ordered separately: see page 107.
 (4) Color of centrally positioned pilot light determined by the color of the LED incorporated in the body sub-assembly.
 (5) Only for use with bodies comprised of a light source with integral LED.
 Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
 For light module ordering information, see pages 123, 124 and 125.




Harmony™ XB5 plastic 22 mm push buttons

Multiple head push buttons, spring return


User assembly of other units, using body-contacts assemblies, see page 122; combined sub-assemblies, see page 128

Triple-headed push buttons (1) (2)


Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Description | Type of contact | Color and marking of caps (3) | Reference | Weight |
|---------------|-------------|---|-------------------------------|-----------|-----------|
| | |  N/O | | | |
| | |  N/C | | | |
| | |  N/O | | | |
| | | | | | kg |

Complete units

| | | | | | | | |
|---|--|---|---|---|---|--------------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | 1 | 1 | 1 | White "I" on green background White "II" on green background | XB5AA731327 | 0.063 |
| | | | | | Black "→" on white background White "←" on black background | XB5AA711237 | 0.063 |

Heads only

| | | | | | | | |
|---|--|--|--|--|---|-------------------|-------|
|  | 2 flush black pushes + 1 central projecting red push marked "Stop" in white | | | | White "I" on green background White "II" on green background | ZB5AA73132 | 0.023 |
| | | | | | White "←" on green background White "→" on green background | ZB5AA73133 | 0.023 |
| | | | | | White "↑" on green background White "↓" on green background | ZB5AA73134 | 0.023 |
| | | | | | White "+" on green background White "-" on green background | ZB5AA73135 | 0.023 |
| | | | | | Black "+" on white background Black "-" on white background | ZB5AA71115 | 0.023 |
| | | | | | Black "→" on white background White "←" on black background | ZB5AA71123 | 0.023 |
| | | | | | Black "↑" on white background White "↓" on black background | ZB5AA71124 | 0.023 |
| | | | | | White "↑" on black background White "↓" on black background | ZB5AA72124 | 0.023 |
| | | | | | Without cap (4) | ZB5AA791 | 0.023 |

Specific accessories for multiple-headed push buttons

| Description | Background color | Marking | Sold in lots of | Reference | Weight | |
|--|--------------------------------------|------------|-----------------|----------------|----------------|-------|
| Caps only for clip-on mounting on double or triple-headed push buttons (5) | White | Unmarked | 10 | ZBA71 | 0.010 | |
| | | "I" black | 10 | ZBA7131 | 0.010 | |
| | | "↑" black | 10 | ZBA7134 | 0.010 | |
| | | "+" black | 10 | ZBA7138 | 0.010 | |
| | Black | Unmarked | 10 | ZBA72 | 0.010 | |
| | | "O" white | 10 | ZBA7232 | 0.010 | |
| | | "+" white | 10 | ZBA7233 | 0.010 | |
| | | "↓" white | 10 | ZBA7235 | 0.010 | |
| | | | "I" white | 10 | ZBA7237 | 0.010 |
| | Green | Unmarked | 10 | ZBA73 | 0.010 | |
| | | "I" white | 10 | ZBA7331 | 0.010 | |
| | | "+" white | 10 | ZBA7333 | 0.010 | |
| "↑" white | | 10 | ZBA7335 | 0.010 | | |
| | | "II" white | 10 | ZBA7336 | 0.010 | |
| Red | Unmarked | 10 | ZBA74 | 0.010 | | |
| | "O" white | 10 | ZBA7432 | 0.010 | | |
| Yellow | Unmarked | 10 | ZBA75 | 0.010 | | |
| | Unmarked | 10 | ZBA76 | 0.010 | | |
| Clear silicone boots (6) | For 2 flush pushes | – | 10 | ZBA708 | 0.055 | |
| | For 3 pushes | – | 10 | ZBA709 | 0.055 | |
| | For 1 flush push + 1 projecting push | – | 10 | ZBA710 | 0.055 | |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) Not compatible with high power switching contacts and contacts for printed circuit board.

(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

(4) Caps to be ordered separately: see accessories on this page.

(5) Can be clipped-in at 90° steps, through 360°.

(6) Can be replaced without dismantling the head.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.



XB5AA731327



ZB5AA73133



ZB5AA71124



ZBA7235



ZBA7331










ZBA7432



ZBA709

Harmony™ XB5 plastic 22 mm push buttons Mushroom head push buttons, spring return

User assembly of other units, using body/contacts assemblies, see page 122; accessories, see page 138

| Mushroom head push buttons ⁽¹⁾ ⁽²⁾ | | | | | | | |
|---|---------------|---|---|------------------------------------|--------|---------------------------------------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Shape of head | Type of push | Type of contact | | Push Dia. (mm) | Color | Reference | Weight |
| | |  |  | | | | |
| | | N/O | N/C | | | | kg |
| Complete units | | | | | | | |
|  | Mushroom head | 1 | - | 40 | Black | XB5AC21 (ZB5AZ101 + ZB5AC2) | 0.062 |
| | | | | | | | |
| Heads only | | | | | | | |
|  | Mushroom head | | | 30 | Black | ZB5AC24 | 0.027 |
| | | | | | Green | ZB5AC34 | 0.027 |
| | | | | | Red | ZB5AC44 | 0.027 |
| | | | | | Yellow | ZB5AC54 | 0.027 |
| | | | | | Blue | ZB5AC64 | 0.027 |
|  | | | | 40 | Black | ZB5AC2 | 0.046 |
| | | | | | Green | ZB5AC3 | 0.046 |
| | | | | | Red | ZB5AC4 | 0.046 |
| | | | | | Yellow | ZB5AC5 | 0.046 |
| | | | | | Blue | ZB5AC6 | 0.046 |
|  | | | | 60 | Black | ZB5AR2 | 0.065 |
| | | | | | Green | ZB5AR3 | 0.065 |
| | | | | | Red | ZB5AR4 | 0.065 |
| | | | | | Yellow | ZB5AR5 | 0.065 |
| | | | | | Blue | ZB5AR6 | 0.065 |
|  | | | | 60 ⁽³⁾ Hemispherical | Black | ZB5AR216 | 0.048 |
| | | | | | Green | ZB5AR316 | 0.048 |
| | | | | | Red | ZB5AR416 | 0.048 |
| | | | | | Yellow | ZB5AR516 | 0.048 |
| | | | | | Blue | ZB5AR616 | 0.048 |

XB5AC21

ZB5AC24

ZB5AC2

ZB5AR4

ZB5AR216

(1) These push buttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.

(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head: 6.








Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons




Mushroom head push buttons, latching

User assembly of other units, using body/contacts assemblies, see page 122; accessories, see page 138

Mushroom head push buttons (1) (2)

| Shape of head | Type of reset | Push | | Reference | Weight kg |
|--|---|-----------|--------|-------------|-----------|
| | | Dia. (mm) | Color | | |
|  ZB5AT2 |  Push-pull | 30 | Black | ZB5AT24 | 0.044 |
| | | 40 | Black | ZB5AT2 | 0.049 |
| | | 60 | Black | ZB5AX2 | 0.067 |
|  ZB5AS62 |  Turn to release | 30 | Black | ZB5AS42 | 0.040 |
| | | 40 | Black | ZB5AS52 | 0.044 |
| | | 40 | Yellow | ZB5AS55 | 0.044 |
| | | 60 | Black | ZB5AS62 | 0.064 |
|  ZB5AS72 |  Key release (key no. 455) (2 keys included with head) (3)  (5) | 30 | Black | ZB5AS72 | 0.040 |
| | | 40 | Black | ZB5AS12 (4) | 0.044 |
| | | 60 | Black | ZB5AS22 | 0.064 |

Illuminated mushroom head push buttons (2)

| Shape of head | Type of reset | Push | | Reference | Weight kg |
|---|---|-----------|--------|-----------|-----------|
| | | Dia. (mm) | Color | | |
|  ZB5AW733 |  Turn to release  | 40 | White | ZB5AW713 | 0.022 |
| | | | Green | ZB5AW733 | 0.022 |
| | | | Orange | ZB5AW753 | 0.022 |
| | | | Blue | ZB5AW763 | 0.022 |

(1) These push buttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.


(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(3) For specific keys with other numbers, please consult your Regional Sales Office.

(4) Other key numbers:

- key no. 421E: add suffix 12 to the reference.
- key no. 458A: add suffix 10 to the reference.
- key no. 520E: add suffix 14 to the reference.
- key no. 3131A: add suffix 20 to the reference.

Example: To order a 40 mm black mushroom head for a latching push button, with release by key no. 421E, the reference becomes: ZB5AS1212.

(5) The symbol  indicates key withdrawal position(s).

(6) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons Emergency stop devices

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see pages 143 and 144

Mushroom head Emergency stop trigger action and mechanical latching push buttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

| Emergency stop trigger action and mechanical latching push buttons ⁽¹⁾ ⁽²⁾ | | | | | | |
|--|---------------|-----------------|-----|-----------|-------|-----------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Shape of head | Type of reset | Type of contact | | Push | | Reference |
| | | N/O | N/C | Dia. (mm) | Color | |
| | | | | | | Weight |
| | | | | | | kg |



XB5AT845



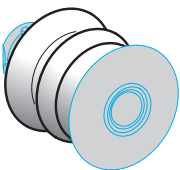
XB5AS8445



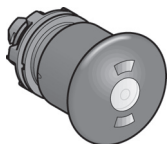
XB5AS9445



ZB5AS844



ZBZ•8



ZB5AT8643M

| Complete units | | | | | | | |
|----------------|----------------------------------|---|---|----|-----|---|-------|
| | Push-pull | 1 | 1 | 40 | Red | XB5AT845 (ZB5AZ105 + ZB5AT84) | 0.076 |
| | Turn to release | 1 | 1 | 40 | Red | XB5AS8445 (ZB5AZ105 + ZB5AS844) | 0.072 |
| | | – | 2 | 40 | Red | XB5AS8444 (ZB5AZ104 + ZB5AS844) | 0.072 |
| | Key release (key no. 455) (3) | 1 | 1 | 40 | Red | XB5AS9445 (ZB5AZ105 + ZB5AS944) | 0.112 |

| Heads only | | | | | | |
|---------------|---|-----------|-------|---------------------|--------|--|
| Shape of head | Type of reset | Push | | Reference | Weight | |
| | | Dia. (mm) | Color | | | |
| | Push-pull | 30 | Red | ZB5AT844 | 0.050 | |
| | | 40 | Red | ZB5AT84 | 0.050 | |
| | | 60 | Red | ZB5AX84 | 0.050 | |
| | Turn to release | 30 | Red | ZB5AS834 | 0.042 | |
| | | 40 | Red | ZB5AS844 | 0.046 | |
| | Key release (key no. 455) 2 keys included with head (5) (3) | 30 | Red | ZB5AS934 | 0.068 | |
| | | 40 | Red | ZB5AS944 (4) | 0.071 | |
| | | 60 | Red | ZB5AS964 | 0.092 | |
| | | 40 | Red | ZB5AS944D | 0.071 | |

| Bellows for harsh environments (IP 69K) | | | | | |
|--|----------|--------|-----------------|----------------|--------|
| For use in | Material | Color | Sold in lots of | Unit reference | Weight |
| Environments subject to humidity, dust, high pressure cleaning, etc. | Silicone | Red | 2 | ZBZ48 | 0.009 |
| | EPDM | Black | 2 | ZBZ28 | 0.009 |
| | | Yellow | 2 | ZBZ58 | 0.009 |

| Illuminated Emergency stop trigger action and mechanical latching push buttons with mechanical state indicator ⁽¹⁾ | | | | | |
|---|---------------|-----------|-------|-------------------|--------|
| For elevator inspection box applications | | | | | |
| Heads only ⁽⁷⁾ | | | | | |
| Shape of head | Type of reset | Push | | Reference | Weight |
| | | Dia. (mm) | Color | | |
| | Push-pull (6) | 40 | Red | ZB5AT8643M | 0.034 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol indicates key withdrawal position(s).

(4) Other key numbers:

- key no. 421E: add suffix **12** to the reference.
- key no. 458A: add suffix **10** to the reference.
- key no. 520E: add suffix **14** to the reference.
- key no. 3131A: add suffix **20** to the reference.
- key no. 4A185: add suffix **D** to the reference.

Example: To order a 40 mm red mushroom head for a trigger action and mechanical latching Emergency stop push button, with release by key no. 421E, the reference becomes: **ZB5AS94412**.

(5) For specific keys with other numbers, please consult your Regional Sales Office.

(6) Cannot be used with metal guards ZBZ160•.

(7) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.



For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons Emergency switching off devices

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see pages 143 and 144

Mushroom head switching off mechanical latching push buttons conform to standards IEC60364-5-53 and EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.





Emergency switching off, mechanical latching push buttons ^{(1) (2)} Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of reset | Type of contact | | Push | | Reference | Weight kg |
|---------------|---------------|---|---|-----------|-------|-----------|--------------|
| | |  N/O |  N/C | Dia. (mm) | Color | | |

Complete units







XB5AS542

| | | | | | | | |
|---|---|---|---|----|-----|---|-------|
|  | Push-pull | – | 1 | 40 | Red | XB5AT42 (ZB5AZ102 + ZB5AT4) | 0.065 |
|  | Turn to release | – | 1 | 40 | Red | XB5AS542 (ZB5AZ102 + ZB5AS54) | 0.060 |
|  | Key release (key no. 455)  (3) | – | 1 | 40 | Red | XB5AS142 (ZB5AZ102 + ZB5AS14) | 0.075 |

Heads only



ZB5AT4

| | | | | | | | |
|---|--|-----------------------------|--|----|-----|-------------------------------|-------|
|  | Push-pull | | | 30 | Red | ZB5AT44 | 0.049 |
| | | | | 40 | Red | ZB5AT4 | 0.049 |
| | | | | 60 | Red | ZB5AX4 | 0.067 |
|  | Turn to release | | | 30 | Red | ZB5AS44 | 0.040 |
| | | | | 40 | Red | ZB5AS54 | 0.044 |
| | | | | 60 | Red | ZB5AS64 | 0.064 |
|  | Key release (key no. 455) 2 keys included with head ⁽⁵⁾  (3) | | | 30 | Red | ZB5AS74 | 0.040 |
| | | | | 40 | Red | ZB5AS14 ⁽⁴⁾ | 0.044 |
| | | | | 60 | Red | ZB5AS24 | 0.060 |
| | | Key release (key no. 4A185) | | 40 | Red | ZB5AS14D | 0.044 |




ZB5AS64

ZB5AS24

Illuminated Emergency switching off, mechanical latching push buttons ⁽¹⁾ Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Type of reset | Push Dia. (mm) | Color | Reference | Weight kg |
|---------------|---------------|-------------------|-------|-----------|--------------|
|---------------|---------------|-------------------|-------|-----------|--------------|


Heads only ⁽⁶⁾

| | | | | | |
|---|-----------------|----|-----|-----------------|-------|
|  | Turn to release | 40 | Red | ZB5AW743 | 0.022 |
|---|-----------------|----|-----|-----------------|-------|



⁽¹⁾ Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

⁽²⁾ It is recommended that a legend or yellow background is used.

⁽³⁾ The symbol  indicates key withdrawal position(s).

⁽⁴⁾ Other key numbers:

- key no. 421E: add suffix **12** to the reference.
- key no. 458A: add suffix **10** to the reference.
- key no. 520E: add suffix **14** to the reference.
- key no. 3131A: add suffix **20** to the reference.

Example: To order a 40 mm red mushroom head for a mechanical latching Emergency switching off push button, with release by key no. 421E, the reference becomes: **ZB5AS1412**.

⁽⁵⁾ For specific keys with other numbers, please consult your Regional Sales Office.

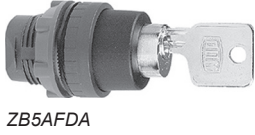
⁽⁶⁾ Only for use with bodies comprised of a light source with integral LED.


Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

For light module ordering information, see pages 123, 124 and 125.


Harmony™ XB5 plastic 22 mm push buttons Push buttons, push-turn to release

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138



| Push buttons with key-operated push (1) | | | | | |
|---|----------------------|-------------------|-------------------|------------------|-----------|
| Shape of head | Type of push | Locking | Key withdrawal | Reference | Weight kg |
| Heads only | | | | | |
|  | Key no. 4A185 | Both positions | Both positions | ZB5AFDA | 0.050 |
| | | Actuated position | Actuated position | ZB5AFDB | 0.050 |
| | | Rest position | Rest position | ZB5AFDC | 0.050 |
| | | Actuated position | Both positions | ZB5AFDD | 0.050 |
| | Key LU1 | Both positions | Both positions | ZB5AFDE01 | 0.050 |
| | Key LU2 | Both positions | Both positions | ZB5AFDE02 | 0.050 |
| | Key LU3 | Both positions | Both positions | ZB5AFDE03 | 0.050 |
| | Key LU4 | Both positions | Both positions | ZB5AFDE04 | 0.050 |
| | Key LU5 | Both positions | Both positions | ZB5AFDE05 | 0.050 |
| | Key LU6 | Both positions | Both positions | ZB5AFDE06 | 0.050 |
| | Key LU7 | Both positions | Both positions | ZB5AFDE07 | 0.050 |
| | Key LU8 | Both positions | Both positions | ZB5AFDE08 | 0.050 |
| | Key LU9 | Both positions | Both positions | ZB5AFDE09 | 0.050 |
| | Key LU10 | Both positions | Both positions | ZB5AFDE10 | 0.050 |
| | Key LU11 | Both positions | Both positions | ZB5AFDE11 | 0.050 |
| | Key LU12 | Both positions | Both positions | ZB5AFDE12 | 0.050 |
| | Key LU13 | Both positions | Both positions | ZB5AFDE13 | 0.050 |
| | Key LU14 | Both positions | Both positions | ZB5AFDE14 | 0.050 |
| | Key LU15 | Both positions | Both positions | ZB5AFDE15 | 0.050 |



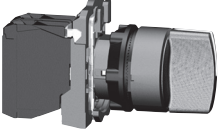












| Push buttons with knurled push (1) | | | | |
|---|--------------------------------|-------------------------------|-----------------|-----------|
| Shape of head | Type of push | Marking | Reference | Weight kg |
| Heads only | | | | |
|  | Knurled without cap (2) | – | ZB5AF | 0.027 |
| | Knurled with marked cap | † (white on black background) | ZB5AF351 | 0.030 |

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
 (2) Colored caps to be ordered separately: see page 134.
 Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

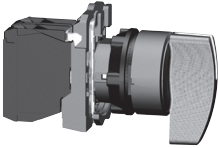










Selector switches with standard handle,
Selector switches with long handle

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

| Selector switches with standard handle ⁽¹⁾ | | | | | | | | |
|---|---|---|------------------------|---------------------|-----------------------------------|--|---------------------------------------|---|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference | Weight kg | |
| | | N/O | N/C | Number | Type | | | |
| Complete units | | | | | | | | |
|  | Standard handle, black | 1 | - | 2-position 90° | Stay put |  | XB5AD21 (ZB5AZ101 + ZB5AD2) | 0.043 |
| | | | | | Spring return from right to left |  | XB5AD41 (ZB5AZ101 + ZB5AD4) | 0.046 |
| | | 1 | 1 | 3-position ± 45° | Stay put |  | XB5AD25 (ZB5AZ105 + ZB5AD2) | 0.043 |
| | | | | | Spring return to center |  | XB5AD53 (ZB5AZ103 + ZB5AD5) | 0.043 |
| | |  | Standard handle, black | 1 | - | 2-position 90° | Stay put |  |
| Spring return from right to left |  | | | | | | ZB5AD4 | 0.020 |
| 1 | 1 | | | 3-position ± 45° | Stay put |  | ZB5AD3 | 0.017 |
| | | | | | Spring return to center |  | ZB5AD5 | 0.017 |
| | | | | | Spring return from left to center |  | ZB5AD7 | 0.017 |
| Spring return from right to center |  | ZB5AD8 | 0.017 | | | | | |
| Heads only with other colored handles | | | | | | | | |
|  | Standard handle, white | add suffix 01 to the reference, example: ZB5AD201 | | | | | | |
| | Standard handle, green | add suffix 03 to the reference, example: ZB5AD203 | | | | | | |
| | Standard handle, red | add suffix 04 to the reference, example: ZB5AD204 | | | | | | |
| | Standard handle, yellow | add suffix 05 to the reference, example: ZB5AD205 | | | | | | |
| | Standard handle, blue | add suffix 06 to the reference, example: ZB5AD206 | | | | | | |

XB5AD33

ZB5AD2

| Selector switches with long handle ⁽¹⁾ | | | | | | | | |
|---|--------------------|------------------------------------|---|---------------------|-----------------------------------|---|---------------------------------------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference | Weight kg | |
| | | N/O | N/C | Number | Type | | | |
| Complete units | | | | | | | | |
|  | Long handle, black | 1 | - | 2-position 90° | Stay put |  | XB5AJ21 (ZB5AZ101 + ZB5AJ2) | 0.043 |
| | | | | | Spring return to center |  | XB5AJ53 (ZB5AZ103 + ZB5AJ5) | 0.043 |
| | | 2 | - | 3-position ± 45° | Stay put |  | XB5AJ33 (ZB5AZ103 + ZB5AJ3) | 0.043 |
|  | Long handle, black | 1 | - | 2-position 90° | Stay put |  | ZB5AJ2 | 0.017 |
| | | | | | Spring return from right to left |  | ZB5AJ4 | 0.020 |
| | | 1 | 1 | 3-position ± 45° | Stay put |  | ZB5AJ3 | 0.017 |
| | | | | | Spring return to center |  | ZB5AJ5 | 0.017 |
| | | | | | Spring return from left to center |  | ZB5AJ7 | 0.017 |
| | | Spring return from right to center |  | ZB5AJ8 | 0.017 | | | |

ZB5AJ3







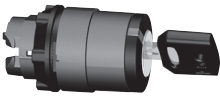















ZB5AJ

⁽¹⁾ Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Key switches with key no. 455, 8D1, 421E, 458A, 520E or 3131A

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

| Key switches (1) | | | | | | | | |
|---|---|-----------------|-------|---------------------|---|---|---------------------------------------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Type of operator | Type of contact | | Positions | | Reference | Weight | |
| | | N/O | N/C | Number | Type (2) | | | |
| Complete units | | | | | | | | |
|  | Key switch with key no. 455 | 1 | - | 2-position 90° | Stay put |  | XB5AG21 (ZB5AZ101 + ZB5AG2) | 0.831 |
| | | | | | |  | XB5AG41 (ZB5AZ101 + ZB5AG4) | 0.831 |
| | | 2 | - | 3-position ± 45° | Stay put |  | XB5AG61 (ZB5AZ101 + ZB5AG6) | 0.870 |
| | | | | | |  | XB5AG03 (ZB5AZ103 + ZB5AG0) | 0.831 |
| | | | | |  | XB5AG33 (ZB5AZ103 + ZB5AG3) | 0.831 | |
| Heads only | | | | | | | | |
|  | Key switch with key no. 455 (3) (4) | | | 2-position 90° | Stay put |  | ZB5AG2 | 0.057 |
| | | | | | |  | ZB5AG02 | 0.057 |
|  | | | | 3-position ± 45° | Stay put |  | ZB5AG4 | 0.057 |
| | | | | | |  | ZB5AG6 | 0.061 |
| | | | | | |  | ZB5AG0 | 0.057 |
| | | | | | |  | ZB5AG3 | 0.057 |
| | | | | | |  | ZB5AG5 | 0.057 |
| | | | | | |  | ZB5AG9 | 0.057 |
| | | | | | |  | ZB5AG09 | 0.057 |
| | | | | | |  | ZB5AG1 | 0.057 |
| | | | | | |  | ZB5AG7 | 0.057 |
| | | | | | |  | ZB5AG8 | 0.057 |
| |  | ZB5AG05 | 0.057 | | | | | |
| | | | | |  | ZB5AG08 | 0.057 | |

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) The symbol  indicates key withdrawal position(s).

(3) Other key numbers:

- key no. 421E: add suffix 12 to the reference.
- key no. 458A: add suffix 10 to the reference.
- key no. 520E: add suffix 14 to the reference.
- key no. 3131A: add suffix 20 to the reference.

Example: For a switch head with key no. 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes: **ZB5AG212**.

(4) For specific keys with other numbers, please consult your Regional Sales Office.





















Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.









Harmony™ XB5 plastic 22 mm push buttons

Key switches with key no. 8D1

Selector switches with knurled knob - Toggle switches







Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

| Key switches (continued) (1) | | | | | | | | |
|---|-----------------------------|---|------------------------------------|---|-----------|---|---------|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | |
| Shape of head | Type of operator | Positions (2) | | Reference | Weight kg | | | |
| | | Number | Type | | | | | |
|  | Key switch with key no. 8D1 | 2-position 90° | Stay put |  | ZB5AG2D | 0.057 | | |
| | | | |  | ZB5AG02D | 0.057 | | |
| | | | |  | ZB5AG4D | 0.057 | | |
| | | | Spring return from right to left |  | ZB5AG6D | 0.061 | | |
| | | | | 3-position ± 45° | Stay put |  | ZB5AG0D | 0.057 |
| | | | | | |  | ZB5AG3D | 0.057 |
| | |  | ZB5AG5D | | | 0.057 | | |
| | | Spring return from left to center | Stay put |  | ZB5AG9D | 0.057 | | |
| | | | |  | ZB5AG09D | 0.057 | | |
| | | | |  | ZB5AG03D | 0.057 | | |
| | | | Spring return from right to center |  | ZB5AG04D | 0.057 | | |
| | | | |  | ZB5AG06D | 0.057 | | |
| | | | |  | ZB5AG1D | 0.057 | | |
| | | Spring return to center | Stay put |  | ZB5AG07D | 0.057 | | |
| | | | |  | ZB5AG8D | 0.057 | | |
| | | | |  | ZB5AG08D | 0.057 | | |
| | | | Spring return from right to center |  | ZB5AG05D | 0.057 | | |
| | | | |  | ZB5AG05D | 0.057 | | |
|  | ZB5AG7D | | | 0.057 | | | | |

| Selector switches with knurled knob (1) | | | | | | |
|---|--------------------|---------------------|----------|---|-----------|-------|
| Shape of head | Type of operator | Positions | | Reference | Weight kg | |
| | | Number | Type | | | |
|  | Black knurled knob | 2-position 90° | Stay put |  | ZB5AD29 | 0.020 |
| | | | |  | ZB5AD49 | 0.024 |
| | | 3-position ± 45° | Stay put |  | ZB5AD39 | 0.020 |
| | | | |  | ZB5AD59 | 0.020 |
| | | | |  | ZB5AD79 | 0.020 |
| | | | |  | ZB5AD89 | 0.020 |
| | | | |  | ZB5AD89 | 0.020 |



ZB5AD39

| Toggle switches (1) | | | | | | |
|---|------------------|-------------------|----------|---|-----------|-------|
| Shape of head | Type of operator | Positions | | Reference | Weight kg | |
| | | Number | Type | | | |
|  | Black lever | 2-position 90° | Stay put |  | ZB5AD28 | 0.023 |
| | | | |  | ZB5AD48 | 0.023 |
| | White lever | 2-position 90° | Stay put |  | ZB5AD2801 | 0.023 |
| | Red lever | 2-position 90° | Stay put |  | ZB5AD2804 | 0.023 |
| | Blue lever | 2-position 90° | Stay put |  | ZB5AD2806 | 0.023 |



ZB5AD28

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

(2) The symbol  indicates key withdrawal position(s).



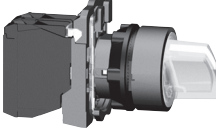


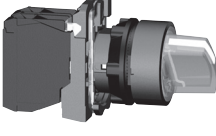
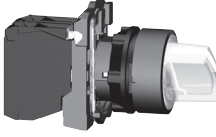
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 126; accessories, see page 138

| Illuminated selector switches with standard handle, with integral LED ⁽¹⁾ | | | | | | | | | | | | | | | |
|--|---|---|---|----------------|---|---|--------|--|-------|--|--|-----------------|--------|--|-------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | | | | | | | | | |
| Shape of head | Type of operator | Type of contact | Positions Number Type | Supply voltage | Color of handle | Reference | Weight | | | | | | | | |
| | |  |  | | | | | | | | | | | | |
| | | N/O | N/C | V | | | kg | | | | | | | | |
| Complete units | | | | | | | | | | | | | | | |
|  XB5AK123●5 |  | Standard handle | 1 | 1 | 2-position Stay put  90° | ≈ 24 (50/60 Hz) | Green | XB5AK123B5 (ZB5AW0B35 + ZB5AK1233) | 0.516 | | | | | | |
| | | | | | | | Red | XB5AK124B5 (ZB5AW0B45 + ZB5AK1243) | 0.516 | | | | | | |
| | | | | | | | Orange | XB5AK125B5 (ZB5AW0B55 + ZB5AK1253) | 0.516 | | | | | | |
| | | | | | | ~ 110 to 120 (50/60 Hz) | Green | XB5AK123G5 (ZB5AW0G35 + ZB5AK1233) | 0.516 | | | | | | |
| | | | | | | | Red | XB5AK124G5 (ZB5AW0G45 + ZB5AK1243) | 0.516 | | | | | | |
| | | | | | | | Orange | XB5AK125G5 (ZB5AW0G55 + ZB5AK1253) | 0.516 | | | | | | |
| | | | | | | ~ 230 to 240 (50/60 Hz) | Green | XB5AK123M5 (ZB5AW0M35 + ZB5AK1233) | 0.516 | | | | | | |
| | | | | | | | Red | XB5AK124M5 (ZB5AW0M45 + ZB5AK1243) | 0.516 | | | | | | |
| | | | | | | | Orange | XB5AK125M5 (ZB5AW0M55 + ZB5AK1253) | 0.516 | | | | | | |
| | | | | | |  XB5AK124●5 | | | | | | ≈ 24 (50/60 Hz) | Green | XB5AK133B5 (ZB5AW0B35 + ZB5AK1333) | 0.516 |
| | | | | | | | | | | | | | Red | XB5AK134B5 (ZB5AW0B45 + ZB5AK1343) | 0.516 |
| | | | | | | | | | | | | | Orange | XB5AK135B5 (ZB5AW0B55 + ZB5AK1353) | 0.516 |
| ~ 110 to 120 (50/60 Hz) | Green | XB5AK133G5 (ZB5AW0G35 + ZB5AK1333) | 0.516 | | | | | | | | | | | | |
| | Red | XB5AK134G5 (ZB5AW0G45 + ZB5AK1343) | 0.516 | | | | | | | | | | | | |
| | Orange | XB5AK135G5 (ZB5AW0G55 + ZB5AK1353) | 0.516 | | | | | | | | | | | | |
| ~ 230 to 240 (50/60 Hz) | Green | XB5AK133M5 (ZB5AW0M35 + ZB5AK1333) | 0.516 | | | | | | | | | | | | |
| | Red | XB5AK134M5 (ZB5AW0M45 + ZB5AK1343) | 0.516 | | | | | | | | | | | | |
| | Orange | XB5AK135M5 (ZB5AW0M55 + ZB5AK1353) | 0.516 | | | | | | | | | | | | |
|  XB5AK125●5 | | | | | | | | | | | | ≈ 24 (50/60 Hz) | Green | XB5AK133B5 (ZB5AW0B35 + ZB5AK1333) | 0.516 |
| | | | | | | | | | | | | | Red | XB5AK134B5 (ZB5AW0B45 + ZB5AK1343) | 0.516 |
| | | | | | | | | | | | | | Orange | XB5AK135B5 (ZB5AW0B55 + ZB5AK1353) | 0.516 |
| | | | | | | ~ 110 to 120 (50/60 Hz) | Green | XB5AK133G5 (ZB5AW0G35 + ZB5AK1333) | 0.516 | | | | | | |
| | | | | | | | Red | XB5AK134G5 (ZB5AW0G45 + ZB5AK1343) | 0.516 | | | | | | |
| | | | | | | | Orange | XB5AK135G5 (ZB5AW0G55 + ZB5AK1353) | 0.516 | | | | | | |
| | | | | | | ~ 230 to 240 (50/60 Hz) | Green | XB5AK133M5 (ZB5AW0M35 + ZB5AK1333) | 0.516 | | | | | | |
| | | | | | | | Red | XB5AK134M5 (ZB5AW0M45 + ZB5AK1343) | 0.516 | | | | | | |
| | | | | | | | Orange | XB5AK135M5 (ZB5AW0M55 + ZB5AK1353) | 0.516 | | | | | | |









(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 126; accessories, see page 138

Illuminated selector switches with standard handle, with integral LED (continued) (1)

| Shape of head | Type of operator | Positions | | Color of handle | Reference | Weight kg | |
|--|---|---------------------|----------------------------------|---|-----------|-----------|-------|
| | | Number | Type | | | | |
| Heads only (2) | | | | | | | |
|  ZB5AK1263 | Standard handle | 2-position 90° | Stay put |  | White | ZB5AK1213 | 0.016 |
| | | | | Green | ZB5AK1233 | 0.016 | |
| | | | | Red | ZB5AK1243 | 0.016 | |
| | | | | Orange | ZB5AK1253 | 0.016 | |
| | | | | Blue | ZB5AK1263 | 0.016 | |
| | | | Spring return from right to left |  | White | ZB5AK1413 | 0.017 |
| | | | | Green | ZB5AK1433 | 0.017 | |
| | | | | Red | ZB5AK1443 | 0.017 | |
| | | | | Orange | ZB5AK1453 | 0.017 | |
| | | | | Blue | ZB5AK1463 | 0.017 | |
|  ZB5AK1463 | Standard handle | 3-position ± 45° | Stay put |  | White | ZB5AK1313 | 0.016 |
| | | | | Green | ZB5AK1333 | 0.016 | |
| | | | | Red | ZB5AK1343 | 0.016 | |
| | | | | Orange | ZB5AK1353 | 0.016 | |
| | | | | Blue | ZB5AK1363 | 0.016 | |
| | | | Spring return to center |  | White | ZB5AK1513 | 0.016 |
| | | | | Green | ZB5AK1533 | 0.016 | |
| | | | | Red | ZB5AK1543 | 0.016 | |
| | | | | Orange | ZB5AK1553 | 0.016 | |
| | | | | Blue | ZB5AK1563 | 0.016 | |
| Spring return from right to center |  | White | ZB5AK1813 | 0.016 | | | |
| | Green | ZB5AK1833 | 0.016 | | | | |
| | Red | ZB5AK1843 | 0.016 | | | | |
| | Orange | ZB5AK1853 | 0.016 | | | | |
| | Blue | ZB5AK1863 | 0.016 | | | | |
| Spring return from left to center |  | White | ZB5AK1713 | 0.016 | | | |
| | Green | ZB5AK1733 | 0.016 | | | | |
| | Red | ZB5AK1743 | 0.016 | | | | |
| | Orange | ZB5AK1753 | 0.016 | | | | |
| | Blue | ZB5AK1763 | 0.016 | | | | |



(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.









(2) Only for use with bodies comprised of a light source with integral LED.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons Pilot lights with integral LED

Assembly of other products using light block sub-assemblies, see page 130; accessories, see pages 134 and 138

| Pilot lights with integral LED | | | | |
|---|----------------------------|--------|--|--------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | |
| Shape of head | Supply voltage V | Color | Reference | Weight kg |
| Complete units | | | | |
| ■ With plain lens | | | | |
|  XB5AVB1  | ~ 24 (50/60 Hz) | White | XB5AVB1 (ZB5AVB1 + ZB5AV013) | 0.038 |
| | | Green | XB5AVB3 (ZB5AVB3 + ZB5AV033) | 0.038 |
| | | Red | XB5AVB4 (ZB5AVB4 + ZB5AV043) | 0.038 |
| | | Orange | XB5AVB5 (ZB5AVB5 + ZB5AV053) | 0.038 |
| | | Blue | XB5AVB6 (ZB5AVB6 + ZB5AV063) | 0.038 |
| | | White | XB5AVG1 (ZB5AVG1 + ZB5AV013) | 0.038 |
| | ~ 110 to 120 (50/60 Hz) | Green | XB5AVG3 (ZB5AVG3 + ZB5AV033) | 0.038 |
| | | Red | XB5AVG4 (ZB5AVG4 + ZB5AV043) | 0.038 |
| | | Orange | XB5AVG5 (ZB5AVG5 + ZB5AV053) | 0.038 |
| | | Blue | XB5AVG6 (ZB5AVG6 + ZB5AV063) | 0.038 |
| | | White | XB5AVM1 (ZB5AVM1 + ZB5AV013) | 0.038 |
| | | Green | XB5AVM3 (ZB5AVM3 + ZB5AV033) | 0.038 |
| | ~ 230 to 240 (50/60 Hz) | Red | XB5AVM4 (ZB5AVM4 + ZB5AV043) | 0.038 |
| | | Orange | XB5AVM5 (ZB5AVM5 + ZB5AV053) | 0.038 |
| | | Blue | XB5AVM6 (ZB5AVM6 + ZB5AV063) | 0.038 |

| Heads only, circular (1) | | | | |
|--|---|------------------|------------------|--------------|
| Shape of head | For use with body comprised of light source type | Color of lens | Reference | Weight kg |
| ■ With plain lens | | | | |
|  ZB5AV053  | Integral LED only | White | ZB5AV013 | 0.017 |
| | | Green | ZB5AV033 | 0.017 |
| | | Red | ZB5AV043 | 0.017 |
| | | Orange | ZB5AV053 | 0.017 |
| | | Blue | ZB5AV063 | 0.017 |
| | | 5 colors (2) (3) | ZB5AV003 | 0.017 |
| ■ With plain lens, for insertion of legend (3) | | | | |
|   | Integral LED only | White | ZB5AV013E | 0.017 |
| | | Green | ZB5AV033E | 0.017 |
| | | Red | ZB5AV043E | 0.017 |
| | | Orange | ZB5AV053E | 0.017 |
| | | Blue | ZB5AV063E | 0.017 |
| ■ With grooved lens (4) | | | | |
|   | Integral LED only | White | ZB5AV013S | 0.017 |
| | | Green | ZB5AV033S | 0.017 |
| | | Red | ZB5AV043S | 0.017 |
| | | Orange | ZB5AV053S | 0.017 |
| | | Blue | ZB5AV063S | 0.017 |
| Heads only, square (1) | | | | |
| ■ With plain lens | | | | |
|  ZB5CV063  | Integral LED only | White | ZB5CV013 | 0.020 |
| | | Green | ZB5CV033 | 0.020 |
| | | Red | ZB5CV043 | 0.020 |
| | | Orange | ZB5CV053 | 0.020 |
| | | Blue | ZB5CV063 | 0.020 |
| | | 5 colors (2) | ZB5CV003 | 0.028 |

(1) Only for use with bodies comprised of a light source with integral LED.
 (2) Head supplied with 5 different colored lenses (white, green, red, orange, blue) not fitted, for insertion of legend.
 (3) For legend ordering information: see page 138.
 (4) For use in bright ambient light conditions (outdoors in sunlight, for example).
 Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
 For light module ordering information, see pages 123, 124 and 125.


Harmony™ XB5 plastic 22 mm push buttons

Pilot lights with integral LED and
with BA 9s base fitting

Assembly of other products using light block sub-assemblies, see page 130; accessories, see pages 134 and 138

Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Supply voltage V | Color | Reference (1) | Weight kg |
|---|---------------------|--------|-----------------|--------------|
| Complete units - With plain lens | | | | |
|  | ~ 400 - 50 Hz (1) | White | XB5AV5B1 | 0.133 |
| | | Green | XB5AV5B3 | 0.133 |
| | | Red | XB5AV5B4 | 0.133 |
| | | Orange | XB5AV5B5 | 0.133 |
| | | Blue | XB5AV5B6 | 0.133 |





XB5AV5B●

Protected
LED

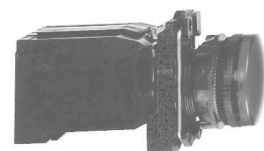
Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Shape of head | Supply voltage V | Color | Reference | Weight kg |
|--|---------------------------------------|--------|--------------------------------------|--------------|
| Complete units - With plain lens | | | | |
| ■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included) | | | | |
|  | ≤ 250 | White | XB5AV61 (ZB5AV6 + ZB5AV01) | 0.037 |
| | | Green | XB5AV63 (ZB5AV6 + ZB5AV03) | 0.037 |
| | | Red | XB5AV64 (ZB5AV6 + ZB5AV04) | 0.037 |
| | | Orange | XB5AV65 (ZB5AV6 + ZB5AV05) | 0.037 |
| ■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included) | | | | |
|  | ~ 110 to 120 - 50/60 Hz | White | XB5AV31 (ZB5AV3 + ZB5AV01) | 0.109 |
| | | Green | XB5AV33 (ZB5AV3 + ZB5AV03) | 0.109 |
| | | Red | XB5AV34 (ZB5AV3 + ZB5AV04) | 0.109 |
| | | Orange | XB5AV35 (ZB5AV3 + ZB5AV05) | 0.109 |
| | ~ 230 - 50 Hz ~ 220 to 240 - 60 Hz | White | XB5AV41 (ZB5AV4 + ZB5AV01) | 0.110 |
| | | Green | XB5AV43 (ZB5AV4 + ZB5AV03) | 0.110 |
| | | Red | XB5AV44 (ZB5AV4 + ZB5AV04) | 0.110 |
| | | Orange | XB5AV45 (ZB5AV4 + ZB5AV05) | 0.110 |





XB5AV63



XB5AV34

Heads only (1)

| Shape of head | For use with body comprised of light source type | Color of lens | Reference | Weight kg |
|---|---|---------------|-----------------|--------------|
| ■ With plain lens | | | | |
|  | With BA 9s base fitting | White | ZB5AV01 | 0.018 |
| | | Green | ZB5AV03 | 0.018 |
| | | Red | ZB5AV04 | 0.018 |
| | | Orange | ZB5AV05 | 0.018 |
| | | Blue | ZB5AV06 | 0.018 |
| | | Clear | ZB5AV07 | 0.018 |
| ■ With grooved lens (2) | | | | |
|  | With BA 9s base fitting | White | ZB5AV01S | 0.017 |
| | | Green | ZB5AV03S | 0.017 |
| | | Red | ZB5AV04S | 0.017 |
| | | Orange | ZB5AV05S | 0.017 |
| | | Blue | ZB5AV06S | 0.017 |
| | | Clear | ZB5AV07S | 0.017 |



ZB5AV01

(1) To order ~ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8". Example: XB5AV5B1 becomes XB5AV8B1. To order ~ 550 to 600 V - 60 Hz blocks, please replace "5" by "9". Example: XB5AV5B1 becomes XB5AV9B1.

(2) Only for use with bodies comprised of a light source with BA 9s base fitting (incandescent, neon or LED).

(3) For use in bright ambient light conditions (outdoors in sunlight, for example).

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.




For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons for manual overload reset, hour counters, buzzers, fuse carrier

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138


Manual overload reset buttons (travel 10 mm)

| Shape of head | Actuation distance mm | Marking | Color | Reference | Weight kg | |
|---|-----------------------|---------|-------|-------------------|-------------------|-------|
| Without cap (1) | | | | | | |
|  | 17 to 120 | – | – | XB5AA801 | 0.027 | |
| | 120 to 257 | – | – | XB5AA802 | 0.040 | |
| With flush push | | | | | | |
|  | 17 to 120 | Without | Green | XB5AA831 | 0.027 | |
| | | | Red | XB5AA841 | 0.027 | |
| | | | Blue | XB5AA861 | 0.027 | |
| | 120 to 257 | Without | O | Red | XB5AA84101 | 0.027 |
| | | | R | Blue | XB5AA86102 | 0.027 |
| | | | | Green | XB5AA832 | 0.040 |
| | | | | Red | XB5AA842 | 0.040 |
| | | | | Blue | XB5AA862 | 0.040 |
| | | | O | Red | XB5AA84201 | 0.040 |
| | | | R | Blue | XB5AA86202 | 0.040 |
| With projecting push | | | | | | |
|  | 17 to 120 | O | Red | XB5AL84101 | 0.027 | |
| | 120 to 257 | O | Red | XB5AL84201 | 0.040 | |



XB5AA

Heads + mounting base for potentiometer (2)

| Shape of head | Description | For use with | Reference | Weight kg |
|---|---|---------------|-----------------|-----------|
|  | For potentiometer with shaft length 45 to 50 mm | 6 mm shaft | ZB5AD912 | 0.032 |
| | | 6.35 mm shaft | ZB5AD922 | 0.032 |



ZB5AD

Hour counters

| Specifications | Supply voltage V | Reference | Weight kg |
|------------------------|-----------------------|---------------|-----------|
| Indication 0 to 9999.9 | ~ 12 to 24 - 50/60 Hz | XB5DSB | 0.045 |
| | ~ 120 - 60 Hz | XB5DSG | 0.045 |
| | ~ 230 to 240 - 50 Hz | XB5DSM | 0.045 |



XB5DS●

Annunciators (IP 40 NEMA 1)

| | | | |
|---|----------------------|---------------|-------|
| 85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 148) | ~ 24 - 50/60 Hz | XB5KSB | 0.035 |
| | ~ 120 - 50/60 Hz | XB5KSG | 0.035 |
| | ~ 230 to 240 - 50 Hz | XB5KSM | 0.035 |



XB5KS●

Fuse carrier

| Description | For use with | Reference | Weight kg |
|--------------|------------------------------|----------------|-----------|
| Fuse carrier | 5 x 20 mm fuse 6.3 A - 250 V | XB5DT1S | 0.022 |



XB5DT1S

(1) Colored cap to be ordered separately: see page 134.

(2) Potentiometer not included.

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons Joystick controllers

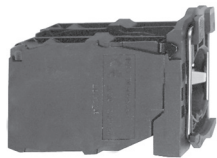
Assembly of other products using accessories, see page 138



XD5PA12



ZD5PA103



ZD5PA203



ZD5PA12

Joystick controllers (with 54 mm long operating shaft) (1) Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Description | Operation | Spring return to zero position | Reference | Weight kg |
|--------------------------|--|--------------------------------|----------------|-----------|
| Complete products | | | | |
| 2-direction | 1 notch 1 N/O contact per direction | Without | XD5PA12 | 0.060 |
| | | With | XD5PA22 | 0.060 |
| 4-direction | 1 notch 1 N/O contact per direction | Without | XD5PA14 | 0.077 |
| | | With | XD5PA24 | 0.077 |

Sub-assemblies for joystick controllers

| Description | For use with | Reference | Weight kg | |
|--|---|----------------------------------|----------------|-------|
| Complete body/contact assemblies | 2-direction | ZD5PA103 | 0.049 | |
| | 4-direction | ZD5PA203 | 0.058 | |
| Complete head assemblies with operating shaft | 2-direction, stay put | ZD5PA12 | 0.022 | |
| | 2-direction, spring return to zero position | ZD5PA22 | 0.022 | |
| | 4-direction, stay put | ZD5PA14 | 0.022 | |
| | 4-direction, spring return to zero position | ZD5PA24 | 0.022 | |
| Legends 30 x 48 mm for engraving | 2-direction | Black one side Red reverse | ZBG2201 | 0.001 |
| | | White one side Yellow reverse | ZBG2401 | 0.001 |
| | | ZBG2401 | 0.001 | |
| Legends 48 x 48 mm for engraving | 4-direction | Black one side Red reverse | ZBG4201 | 0.002 |
| | | White one side Yellow reverse | ZBG4401 | 0.002 |
| | | ZBG4401 | 0.002 | |

(1) Must not be used with standard contact blocks ZBE10● (single) or ZBE20● (double).

Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Other versions

Joystick controllers and complete body/contact assemblies for joystick controllers with Faston® connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies
Screw clamp terminal connections

To combine with heads, see pages 98 to 121



ZB5AZ009



ZBE101



ZBE203



ZB5AZ101



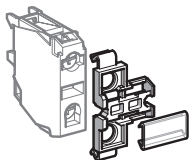
ZBE201



ZB5AZ106



ZB5AZ107



ZBZ001

Body/mounting collar

| For use with | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10 | ZB5AZ009 | 0.006 |

Contact functions (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications

| Description | Type of contact | N/O | N/C | Sold in lots of | Unit reference | Weight kg |
|----------------|----------------------------------|-----|----------|-----------------|----------------|-----------|
| Contact blocks | Single | 1 | – | 5 | ZBE101 | 0.011 |
| | | – | 1 | 5 | ZBE102 | 0.011 |
| | Double | 2 | – | 5 | ZBE203 | 0.020 |
| | | – | 2 | 5 | ZBE204 | 0.020 |
| | Single with body/mounting collar | 1 | 1 | 5 | ZBE205 | 0.020 |
| | | 1 | – | 1 | ZB5AZ101 | 0.021 |
| | | – | 1 | 1 | ZB5AZ102 | 0.021 |
| | | 2 | – | 1 | ZB5AZ103 | 0.030 |
| | | – | 2 | 1 | ZB5AZ104 | 0.030 |
| | | 1 | 1 | 1 | ZB5AZ105 | 0.030 |
| 1 | 2 | 1 | ZB5AZ141 | 0.040 | | |

Contacts for specific applications

| Application | Type of contact | Description | N/O | N/C | Sold in lots of | Unit reference | Weight kg | |
|---------------------|-----------------|---|------------------------|-----|-----------------|----------------|-----------|-------|
| Low power switching | Single | Standard | 1 | – | 5 | ZBE1016 | 0.012 | |
| | | | – | 1 | 5 | ZBE1026 | 0.012 | |
| | | Dusty environment (2) (IP5X, 50 µm dust) | 1 | – | 5 | ZBE1016P | 0.012 | |
| | | | – | 1 | 5 | ZBE1026P | 0.012 | |
| Staggered contacts | Single | Early make N/O | 1 | – | 5 | ZBE201 | 0.011 | |
| | | | – | 1 | 5 | ZBE202 | 0.011 | |
| | | Single with body/ mounting collar | Overlapping N/O+N/C | 1 | 1 | 5 | ZB5AZ106 | 0.030 |
| | | | Staggered N/O+N/C | 2 | – | 5 | ZB5AZ107 | 0.030 |

Clip-on legend holder, sheet of blank legends and labelling software (4)

| Description | Sold in lots of | Unit reference | Weight kg |
|--|-----------------|----------------|-----------|
| Clip-on legend-holder for electrical blocks with screw clamp terminal connections (4). For identification of an XB5A control or signaling unit | 10 | ZBZ001 | 0.001 |
| Sheet of 50 blank legends for legend holder ZBZ001 | 10 | ZBY001 | 0.023 |

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 96.

(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.

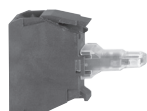
(4) This legend holder is not compatible with high power switching contacts.

Harmony™ XB5 plastic 22 mm push buttons

Light blocks

“Remote test light” - Protection

To combine with heads, see page 102



ZBVB●

Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

| Description | Supply voltage V | Color of light source | Sold in lots of | Unit reference | Weight kg | |
|---|----------------------------|---------------------------|--------------------|-------------------|--------------|-------|
| Integral LED (to combine with heads for integral LED) | ~ 12 (50/60 Hz) | White | 5 | ZBVJ1 | 0.017 | |
| | | Green | 5 | ZBVJ3 | 0.017 | |
| | | Red | 5 | ZBVJ4 | 0.017 | |
| | | Orange | 5 | ZBVJ5 | 0.017 | |
| | | Blue | 5 | ZBVJ6 | 0.017 | |
| | | White | 5 | ZBVB1 | 0.017 | |
| | ~ 24 (50/60 Hz) | Green | 5 | ZBVB3 | 0.017 | |
| | | Red | 5 | ZBVB4 | 0.017 | |
| | | Orange | 5 | ZBVB5 | 0.017 | |
| | | Blue | 5 | ZBVB6 | 0.017 | |
| | | ~ 24 to 120 (50/60 Hz) | White | 5 | ZVBVG1 | 0.017 |
| | | | Green | 5 | ZVBVG3 | 0.017 |
| Red | 5 | | ZVBVG4 | 0.017 | | |
| Orange | 5 | | ZVBVG5 | 0.017 | | |
| Blue | 5 | | ZVBVG6 | 0.017 | | |
| ~ 110 to 120 (50/60 Hz) | White | | 5 | ZBVG1 | 0.017 | |
| | Green | 5 | ZBVG3 | 0.017 | | |
| | Red | 5 | ZBVG4 | 0.017 | | |
| | Orange | 5 | ZBVG5 | 0.017 | | |
| | Blue | 5 | ZBVG6 | 0.017 | | |
| | ~ 230 to 240 (50/60 Hz) | White | 5 | ZBVM1 | 0.017 | |
| Green | | 5 | ZBVM3 | 0.017 | | |
| Red | | 5 | ZBVM4 | 0.017 | | |
| Orange | | 5 | ZBVM5 | 0.017 | | |
| Blue | | 5 | ZBVM6 | 0.017 | | |

Protected
LED

ZBV 5B

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

| | | | | | |
|---|--------------------|----------------------------|---------|---------|---------|
| Integral LED (to combine with heads for integral LED) | ~ 24 (50/60 Hz) | White | 5 | ZBV18B1 | 0.017 |
| | | Green | 5 | ZBV18B3 | 0.017 |
| | | Red | 5 | ZBV18B4 | 0.017 |
| | | Orange | 5 | ZBV18B5 | 0.017 |
| | | Blue | 5 | ZBV18B6 | 0.017 |
| | | ~ 110 to 120 (50/60 Hz) | White | 5 | ZBV18G1 |
| Green | 5 | | ZBV18G3 | 0.017 | |
| Red | 5 | | ZBV18G4 | 0.017 | |
| Orange | 5 | | ZBV18G5 | 0.017 | |
| Blue | 5 | | ZBV18G6 | 0.017 | |
| ~ 230 to 240 (50/60 Hz) | White | | 5 | ZBV18M1 | 0.017 |
| | Green | 5 | ZBV18M3 | 0.017 | |
| | Red | 5 | ZBV18M4 | 0.017 | |
| | Orange | 5 | ZBV18M5 | 0.017 | |
| | Blue | 5 | ZBV18M6 | 0.017 | |

Protected
LED

ZBZG156



ZBZM156



ZBV●

Transformer blocks for 24 V light blocks

| For use with | Supply voltage V | Description | Reference | Weight kg |
|--------------------------------|---------------------|-----------------------------|-----------|--------------|
| Light blocks with integral LED | ~ 400 V - 50 Hz | Transformers 400 V - 24 V ~ | ZBV5B (1) | 0.090 |

Light blocks for “remote test” function

| | | | | |
|--------------------------------|----------------------------|--------------------------------------|-------------|-------|
| Light blocks | ~ 12 and 24 ~ 24 to 120 | Single module, 1 connecting wire | ZBZG156 (2) | 0.010 |
| Light blocks with integral LED | ~ 48 to 230 | Double module, with connecting wires | ZBZM156 (3) | 0.010 |

LED suppressors

| For use with | Supply voltage V | Level of protection | Reference | Weight kg |
|---|---------------------|------------------------|-----------|--------------|
| Light blocks with integral LED fitted with screw clamp terminal connections | ~ 120 | 25 to 120 VA | ZBZVG | 0.010 |
| | ~ 230 | 30 to 230 VA | ZBZVM | 0.010 |

(1) To order ~ 440 to 460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8»: ZBV 5B becomes ZBV 8B.

To order ~ 550 to 600 V - 60 Hz transformer blocks, please replace «5» by «9»: ZBV 5B becomes ZBV 9B.

(2) Block for use with ~ light blocks with integral LED types ZBVJ●, ZBVB●, ZVBVG● or with direct supply light block for BA 9s bulb, ZBV6.

(3) Block for use ~ light blocks integral LED types ZBVG●, ZBVM●, see connection on page 156.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

Spring clamp terminal connections

To combine with heads, see pages 98 to 121



ZB5AZ009

| Body/mounting collar | | | | |
|-------------------------------------|-----------------|----------------|-----------|--|
| For use with | Sold in lots of | Unit reference | Weight kg | |
| Electrical block (contact or light) | 10 | ZB5AZ009 | 0.006 | |



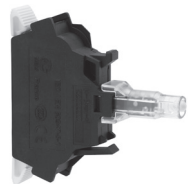
ZBE 1015

| Contact functions | | | | | | |
|---------------------------------------|----------------------------------|-----|-----|-----------------|----------------|-----------|
| Spring clamp terminal connections (1) | | | | | | |
| Contacts for standard applications | | | | | | |
| Description | Type of contact | | | Sold in lots of | Unit reference | Weight kg |
| Contact blocks | Single | | | | | |
| | | N/O | N/C | | | |
| | | 1 | – | 4 | ZBE1015 | 0.011 |
| | | – | 1 | 4 | ZBE1025 | 0.011 |
| | Single with body/mounting collar | 1 | – | 1 | ZB5AZ1015 | 0.021 |
| | | – | 1 | 1 | ZB5AZ1025 | 0.021 |
| 2 | | – | 1 | ZB5AZ1035 | 0.030 | |
| – | | 2 | 1 | ZB5AZ1045 | 0.030 | |
| | 1 | 1 | 1 | ZB5AZ1055 | 0.030 | |

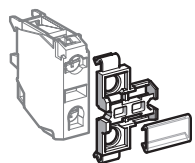


ZB5AZ1015

| Light blocks | | | | | |
|--|----------------------------|-----------------------|-----------------|----------------|-----------|
| Spring clamp terminal connections (1) | | | | | |
| Description | Supply voltage V | Color of light source | Sold in lots of | Unit reference | Weight kg |
| Integral LED (to combine with heads for integral LED) | ≈ 12 (50/60 Hz) | White | 4 | ZBVJ15 | 0.016 |
| | | Green | 4 | ZBVJ35 | 0.016 |
| | | Red | 4 | ZBVJ45 | 0.016 |
| | | Orange | 4 | ZBVJ55 | 0.016 |
| | | Blue | 4 | ZBVJ65 | 0.016 |
| Protected LED | ≈ 24 (50/60 Hz) | White | 4 | ZBVB15 | 0.016 |
| | | Green | 4 | ZBVB35 | 0.016 |
| | | Red | 4 | ZBVB45 | 0.016 |
| | | Orange | 4 | ZBVB55 | 0.016 |
| | | Blue | 4 | ZBVB65 | 0.016 |
| | ~ 110 to 120 (50/60 Hz) | White | 4 | ZBVG15 | 0.016 |
| | | Green | 4 | ZBVG35 | 0.016 |
| | | Red | 4 | ZBVG45 | 0.016 |
| | | Orange | 4 | ZBVG55 | 0.016 |
| | | Blue | 4 | ZBVG65 | 0.016 |
| | ~ 230 to 240 (50/60 Hz) | White | 4 | ZBVM15 | 0.016 |
| | | Green | 4 | ZBVM35 | 0.016 |
| | | Red | 4 | ZBVM45 | 0.016 |
| | | Orange | 4 | ZBVM55 | 0.016 |
| | | Blue | 4 | ZBVM65 | 0.016 |



ZBV B35



ZBZ001

| Sheet of 50 blank legends | | | | |
|---------------------------|-----------------|----------------|-----------|--|
| For use with | Sold in lots of | Unit reference | Weight kg | |
| Legend holder ZBZ001 | 10 | ZBY001 | 0.023 | |

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

Harmony™ XB5 plastic 22 mm push buttons

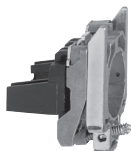
Body/contact assemblies

For printed circuit board

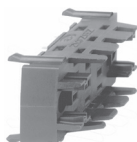
To combine with heads, see pages 98 to 121



ZB5AZ009



ZB5AZ079 + ZB5AZ009



ZBZ010



ZBE701



ZBE702



ZBVB07

Body/mounting collar and accessories specifically for printed circuit board mounting ⁽¹⁾

Accessories required when using adaptor (socket) ZBZ010



| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|----------------|-----------|
| Body/mounting collar | Electrical block (contact or light) | 10 | ZB5AZ009 | 0.006 |
| Mounting collar/pillar | Printed circuit board support (mounting screw ZBZ006 to be ordered separately) | 10 | ZB5AZ079 | 0.003 |
| Mounting screw for printed circuit board | Mounting collar/pillar ZB5AZ079 | 10 | ZBZ006 | 0.011 |

Adapter (socket) ⁽¹⁾



| For use with | Thickness of printed circuit board (mm) | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|---|-----------------|----------------|-----------|
| Electrical block (contact or light) | 1.6 ± 0.2 | 10 | ZBZ010 | 0.008 |
| | 2.2 ± 0.2 | 10 | ZBZ011 | 0.008 |
| | 3.2 ± 0.2 | 10 | ZBZ012 | 0.008 |

Contact functions ⁽¹⁾

Contacts for standard applications

| Description | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|--|---|-----------------|----------------|-----------|
| Contact blocks | Single | 1 | – | 5 | ZBE701 | 0.011 |
| | | – | 1 | 5 | ZBE702 | 0.011 |

Contacts for specific applications

| Application | Type of contact |  |  | Sold in lots of | Unit reference | Weight kg |
|---------------------|-----------------|---|--|-----------------|----------------|-----------|
| Low power switching | Single | 1 | – | 5 | ZBE7016 | 0.012 |
| | | – | 1 | 5 | ZBE7026 | 0.012 |

Light blocks ⁽¹⁾

| Description | Supply voltage V | Color of LED | Sold in lots of | Unit reference | Weight kg |
|---|------------------|--------------|-----------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz) | White | 5 | ZBVB17 | 0.004 |
| | | Green | 5 | ZBVB37 | 0.004 |
| | | Red | 5 | ZBVB47 | 0.004 |
| | | Orange | 5 | ZBVB57 | 0.004 |
| | | Blue | 5 | ZBVB67 | 0.004 |

Protected LED

⁽¹⁾ For details of support drilling and of printed circuit board: see page 159

Harmony™ XB5 plastic 22 mm push buttons Body/contact assemblies Faston® connectors

To combine with heads, see pages 98 to 121

Contact functions (1) Faston connectors (6.35 or 2 x 2.8 mm)

Contacts for standard applications

| Description | Type of contact | N/O | N/C | Sold in lots of | Unit reference | Weight |
|----------------|----------------------------------|-----|-----|-----------------|----------------|--------|
| | | | | | | kg |
| Contact blocks | Single | 1 | – | 5 | ZBE1013 | 0.011 |
| | | – | 1 | 5 | ZBE1023 | 0.011 |
| | Double | 2 | – | 5 | ZBE2033 | 0.020 |
| | | – | 2 | 5 | ZBE2043 | 0.020 |
| | | 1 | 1 | 5 | ZBE2053 | 0.020 |
| | Single with body/mounting collar | 1 | – | 1 | ZB5AZ1013 (2) | 0.021 |
| | | – | 1 | 1 | ZB5AZ1023 (2) | 0.021 |
| | | 2 | – | 1 | ZB5AZ1033 | 0.030 |
| | | – | 2 | 1 | ZB5AZ1043 | 0.030 |
| 1 | | 1 | 1 | ZB5AZ1053 | 0.030 | |



ZBE 1023



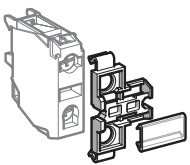
ZBE 2043

Contacts for specific applications

| Application | Type of contact | Description | N/O | N/C | Sold in lots of | Unit reference | Weight |
|----------------------|-----------------|--|-----|-----|-----------------|----------------|--------|
| | | | | | | | kg |
| Low power switching | Single | Standard | 1 | – | 5 | ZBE10163 (2) | 0.012 |
| | | | – | 1 | 5 | ZBE10263 (2) | 0.012 |
| | | Dusty environments (3) (IP5X, 50 µm dust) | 1 | – | 5 | ZBE1016P3 (2) | 0.012 |
| | | | – | 1 | 5 | ZBE1026P3 (2) | 0.012 |
| Staggered contacts | Single | Early make | 1 | – | 5 | ZBE2013 (2) | 0.011 |
| | | | N/O | | | | |
| | | Late break | – | 1 | 5 | ZBE2023 (2) | 0.011 |
| | | | N/C | | | | |
| High power switching | Single | Standard (4) | 1 | – | 1 | ZBE5013 | 0.021 |
| | | | – | 1 | 1 | ZBE5023 | 0.021 |
| | | | 2 | – | 1 | ZBE5033 | 0.033 |
| | | | – | 2 | 1 | ZBE5043 | 0.033 |
| | | | 1 | 1 | 1 | ZBE5053 | 0.033 |



ZBE 5043



ZBZ001

Clip-on legend holder for electrical blocks with screw clamp terminal connections (5)

| For use with | Sold in lots of | Unit reference | Weight kg |
|---|-----------------|----------------|-----------|
| Identification of an XB5A control or signaling unit | 10 | ZBZ001 | 0.001 |
| Sheet of 50 blank legends | 10 | ZBY001 | 0.023 |

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
 (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9. Example: ZBE1013 becomes ZBE1019.
 (3) It is not possible to fit an additional contact block on the back of these contact blocks.
 (4) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
 (5) This legend holder is not compatible with high power switching contacts.

Harmony™ XB5 plastic 22 mm push buttons Body/contact assemblies Plug-in connector

To combine with heads, see pages 98 to 121



ZB5AZ009



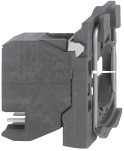
ZBE1014



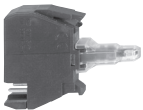
ZBE1024



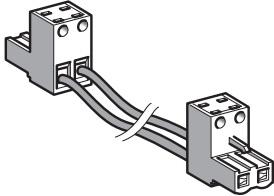
ZB5AZ1014



ZB5AZ1024



ZBVB4



APE1C2250

Body/mounting collar

| For use with | Sold in lots of | Unit reference | Weight kg |
|-------------------------------------|-----------------|----------------|-----------|
| Electrical block (contact or light) | 10 | ZB5AZ009 | 0.006 |

Contact functions

Plug-in connector (1)

Contacts for standard applications

| Description | Type of contact | Circuit symbols | | Sold in lots of | Unit reference | Weight kg |
|----------------------------------|----------------------------------|-----------------|-----|-----------------|----------------|-----------|
| | | N/O | N/C | | | |
| Contact blocks | Single | 1 | – | 5 | ZBE1014 | 0.011 |
| | | – | 1 | 5 | ZBE1024 | 0.011 |
| Single with body/mounting collar | Single with body/mounting collar | 1 | – | 1 | ZB5AZ1014 | 0.018 |
| | | – | 1 | 1 | ZB5AZ1024 | 0.018 |
| | | 2 | – | 1 | ZB5AZ1034 | 0.026 |
| | | – | 2 | 1 | ZB5AZ1044 | 0.026 |
| | | 1 | 1 | 1 | ZB5AZ1054 | 0.026 |
| | | 1 | 2 | 1 | ZB5AZ1414 | 0.036 |

Light blocks

Plug-in connector

| Description | Supply voltage (V) | Color of light source | Sold in lots of | Unit reference | Weight kg |
|---|-------------------------|-------------------------|-------------------------|----------------|-----------|
| Integral LED (to combine with heads for integral LED) | ≈ 24 (50/60 Hz) | White | 5 | ZBVB14 | 0.016 |
| | | Green | 5 | ZBVB34 | 0.016 |
| | | Red | 5 | ZBVB44 | 0.016 |
| | | Orange | 5 | ZBVB54 | 0.016 |
| | | Blue | 5 | ZBVB64 | 0.016 |
| | | ~ 110 to 120 (50/60 Hz) | ~ 110 to 120 (50/60 Hz) | White | 5 |
| Green | 5 | | | ZBVG34 | 0.016 |
| Red | 5 | | | ZBVG44 | 0.016 |
| Orange | 5 | | | ZBVG54 | 0.016 |
| Blue | 5 | | | ZBVG64 | 0.016 |
| ~ 230 to 240 (50/60 Hz) | ~ 230 to 240 (50/60 Hz) | | | White | 5 |
| | | Green | 5 | ZBVM34 | 0.016 |
| | | Red | 5 | ZBVM44 | 0.016 |
| | | Orange | 5 | ZBVM54 | 0.016 |
| | | Blue | 5 | ZBVM64 | 0.016 |



Connecting cables and connector

| Description | Number of connectors | Wire c.s.a. mm ² | Length mm | Sold in lots of | Unit reference | Weight kg |
|--|----------------------|-----------------------------|-----------|-----------------|----------------|-----------|
| Cables with connectors 2-pin, 5.08 mm pitch | 1 | 0.75 | 500 | 8 | APE1C2150 | 0.120 |
| | 2 | 0.75 | 500 | 8 | APE1C2250 | 0.180 |
| Spring terminal connector 2-pin, 5.08 mm pitch | – | 0.2 to 2.5 | – | 10 | APE1PRE21 | 0.003 |

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies + light blocks with integral LED

To combine with heads, see pages 103 to 117; contacts, see page 122

| Complete body/contact assemblies and light blocks ⁽¹⁾ | | | | | | |
|--|--------------------|---|---|-----------------------|-----------|--------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | |
| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight |
| | V |  |  | | | kg |
| | | N/O | N/C | | | |
| Direct supply | | | | | | |
| Integral LED  | ≈ 24 (50/60 Hz) | 1 | – | White | ZB5AW0B11 | 0.032 |
| | | | | Green | ZB5AW0B31 | 0.032 |
| | | | | Red | ZB5AW0B41 | 0.032 |
| | | | | Orange | ZB5AW0B51 | 0.032 |
| | | | | Blue | ZB5AW0B61 | 0.032 |
| | | – | 1 | White | ZB5AW0B12 | 0.032 |
| | | | | Green | ZB5AW0B32 | 0.032 |
| | | | | Red | ZB5AW0B42 | 0.032 |
| | | | | Orange | ZB5AW0B52 | 0.032 |
| | | | | Blue | ZB5AW0B62 | 0.032 |
| | 2 | – | White | ZB5AW0B13 | 0.042 | |
| | | | Green | ZB5AW0B33 | 0.042 | |
| | | | Red | ZB5AW0B43 | 0.042 | |
| | | | Orange | ZB5AW0B53 | 0.042 | |
| | | | Blue | ZB5AW0B63 | 0.042 | |
| | 1 | 1 | White | ZB5AW0B15 | 0.042 | |
| | | | Green | ZB5AW0B35 | 0.042 | |
| | | | Red | ZB5AW0B45 | 0.042 | |
| | | | Orange | ZB5AW0B55 | 0.042 | |
| | | | Blue | ZB5AW0B65 | 0.042 | |
| ~ 110 to 120 (50/60 Hz) | 1 | – | White | ZB5AW0G11 | 0.032 | |
| | | | Green | ZB5AW0G31 | 0.032 | |
| | | | Red | ZB5AW0G41 | 0.032 | |
| | | | Orange | ZB5AW0G51 | 0.032 | |
| | | | Blue | ZB5AW0G61 | 0.032 | |
| | – | 1 | White | ZB5AW0G12 | 0.032 | |
| | | | Green | ZB5AW0G32 | 0.032 | |
| | | | Red | ZB5AW0G42 | 0.032 | |
| | | | Orange | ZB5AW0G52 | 0.032 | |
| | | | Blue | ZB5AW0G62 | 0.032 | |
| 2 | – | White | ZB5AW0G13 | 0.042 | | |
| | | Green | ZB5AW0G33 | 0.042 | | |
| | | Red | ZB5AW0G43 | 0.042 | | |
| | | Orange | ZB5AW0G53 | 0.042 | | |
| | | Blue | ZB5AW0G63 | 0.042 | | |
| 1 | 1 | White | ZB5AW0G15 | 0.042 | | |
| | | Green | ZB5AW0G35 | 0.042 | | |
| | | Red | ZB5AW0G45 | 0.042 | | |
| | | Orange | ZB5AW0G55 | 0.042 | | |
| | | Blue | ZB5AW0G65 | 0.042 | | |

(1) Can be fitted with additional contact blocks: see page 122.

Other versions

Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies + light blocks
with integral LED

To combine with heads, see pages 103 to 117; contacts, see page 122

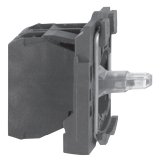
Complete body/contact assemblies and light blocks (1) (continued) Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight |
|--------------------------------------|----------------------------|-----------------|------------------|-----------------------|------------------|--------|
| | | N/O | N/C | | | |
| | V | | | | | kg |
| Direct supply (continued) | | | | | | |
| Integral LED Protected LED | ~ 230 to 240 (50/60 Hz) | 1 | – | White | ZB5AW0M11 | 0.032 |
| | | | | Green | ZB5AW0M31 | 0.032 |
| | | | | Red | ZB5AW0M41 | 0.032 |
| | | | | Orange | ZB5AW0M51 | 0.032 |
| | | | | Blue | ZB5AW0M61 | 0.032 |
| | | – | 1 | White | ZB5AW0M12 | 0.032 |
| | | | | Green | ZB5AW0M32 | 0.032 |
| | | | | Red | ZB5AW0M42 | 0.032 |
| | | | | Orange | ZB5AW0M52 | 0.032 |
| | | | | Blue | ZB5AW0M62 | 0.032 |
| | | 2 | – | White | ZB5AW0M13 | 0.042 |
| | | | | Green | ZB5AW0M33 | 0.042 |
| | | | | Red | ZB5AW0M43 | 0.042 |
| | | | | Orange | ZB5AW0M53 | 0.042 |
| | | | | Blue | ZB5AW0M63 | 0.042 |
| 1 | 1 | White | ZB5AW0M15 | 0.042 | | |
| | | Green | ZB5AW0M35 | 0.042 | | |
| | | Red | ZB5AW0M45 | 0.042 | | |
| | | Orange | ZB5AW0M55 | 0.042 | | |
| | | Blue | ZB5AW0M65 | 0.042 | | |

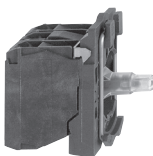
(1) Can be fitted with additional contact blocks: see page 122.

Other versions

Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.



ZB5AW0M11



ZB5AW0M33

Harmony™ XB5 plastic 22 mm push buttons

Body/light assemblies for pilot lights
with integral LED

To combine with heads, see page 118; contacts, see page 122



ZB5AV●●

Protected
LED

| Complete light bodies (mounting collar + light block with integral LED) | | | | |
|--|--------------------------------|------------------------|-----------------|----------------|
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | |
| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
| Integral LED | ≈ 12 (50/60 Hz) | White | ZB5AVJ1 | 0.022 |
| | | Green | ZB5AVJ3 | 0.022 |
| | | Red | ZB5AVJ4 | 0.022 |
| | | Orange | ZB5AVJ5 | 0.022 |
| | | Blue | ZB5AVJ6 | 0.022 |
| | | ≈ 24 (1) (50/60 Hz) | White | ZB5AVB1 |
| Green | ZB5AVB3 | | 0.022 | |
| Red | ZB5AVB4 | | 0.022 | |
| Orange | ZB5AVB5 | | 0.022 | |
| Blue | ZB5AVB6 | | 0.022 | |
| ≈ 24 to 120 (50/60 Hz) | White | | ZB5AVBG1 | 0.022 |
| | Green | ZB5AVBG3 | 0.022 | |
| | Red | ZB5AVBG4 | 0.022 | |
| | Orange | ZB5AVBG5 | 0.022 | |
| | Blue | ZB5AVBG6 | 0.022 | |
| | ≈ 110 to 120 (1) (50/60 Hz) | White | ZB5AVG1 | 0.022 |
| Green | | ZB5AVG3 | 0.022 | |
| Red | | ZB5AVG4 | 0.022 | |
| Orange | | ZB5AVG5 | 0.022 | |
| Blue | | ZB5AVG6 | 0.022 | |
| ≈ 230 to 240 (1) (50/60 Hz) | | White | ZB5AVM1 | 0.022 |
| | Green | ZB5AVM3 | 0.022 | |
| | Red | ZB5AVM4 | 0.022 | |
| | Orange | ZB5AVM5 | 0.022 | |
| | Blue | ZB5AVM6 | 0.022 | |

(1) Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 123.

Harmony™ XB5 plastic 22 mm push buttons

Body/light assemblies for pilot lights
with integral LED

To combine with heads, see page 118; contacts, see page 122



ZB5AVB●156

Complete light bodies with 3-terminal "remote test" function (mounting collar + light block with integral LED + pre-wired block for "remote test light" function) Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--|------------------------|--------------------------|------------|--------------|
| Integral LED Protected LED | ≈ 24 (1) (50/60 Hz) | White | ZB5AVB1156 | 0.022 |
| | | Green | ZB5AVB3156 | 0.022 |
| | | Red | ZB5AVB4156 | 0.022 |
| | | Orange | ZB5AVB5156 | 0.022 |
| | | Blue | ZB5AVB6156 | 0.022 |

Complete bodies with flashing pilot light (mounting collar + light block with integral LED) Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--|----------------------------|--------------------------|-----------|--------------|
| Integral LED Protected LED | ≈ 24 (50/60 Hz) | White | ZB5AV18B1 | 0.022 |
| | | Green | ZB5AV18B3 | 0.022 |
| | | Red | ZB5AV18B4 | 0.022 |
| | | Orange | ZB5AV18B5 | 0.022 |
| | | Blue | ZB5AV18B6 | 0.022 |
| | | Blue | ZB5AV18B6 | 0.022 |
| | ≈ 110 to 120 (50/60 Hz) | White | ZB5AV18G1 | 0.022 |
| | | Green | ZB5AV18G3 | 0.022 |
| | | Red | ZB5AV18G4 | 0.022 |
| | | Orange | ZB5AV18G5 | 0.022 |
| | | Blue | ZB5AV18G6 | 0.022 |
| | | Blue | ZB5AV18G6 | 0.022 |
| | ≈ 230 to 240 (50/60 Hz) | White | ZB5AV18M1 | 0.022 |
| | | Green | ZB5AV18M3 | 0.022 |
| | | Red | ZB5AV18M4 | 0.022 |
| | | Orange | ZB5AV18M5 | 0.022 |
| | | Blue | ZB5AV18M6 | 0.022 |
| | | Blue | ZB5AV18M6 | 0.022 |

(1) For a ~ 120 or 230 V supply, use complete body ZB5AVG● or ZB5AVM● with block for "remote test light" function type ZBZM156, see page 123.

Harmony™ XB5 plastic 22 mm push buttons

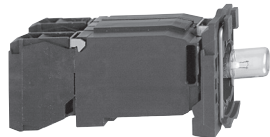
Body/contact assemblies + light blocks
with BA 9s base fitting

To combine with heads, see page 102 to 115; contacts, see page 122



ZB5AW065

| Complete body/contact assemblies and light blocks ⁽¹⁾ | | | | | | | |
|--|------------------------------------|--------------------------|--------|-----------------------|------------|------------|-------|
| For bulb with BA 9s base fitting (incandescent, neon or LED) | | | | | | | |
| Screw clamp terminal connections (Schneider Electric anti-retightening system) | | | | | | | |
| Light source | Supply voltage | Type of contact | | Color of light source | Reference | Weight | |
| | | N/O | N/C | | | | |
| | V | | | | | kg | |
| Direct supply | | | | | | | |
| BA 9s base fitting bulb, 2.4 W max., not included ⁽²⁾ | ≤ 250 | 1 | – | – | ZB5AW061 | 0.031 | |
| | | – | 1 | – | ZB5AW062 | 0.031 | |
| | | 2 | – | – | ZB5AW063 | 0.041 | |
| | | 1 | 1 | – | ZB5AW065 | 0.041 | |
| Supply via integral transformer (1.2 VA, 6 V secondary) | | | | | | | |
| Incandescent BA 9s base fitting bulb, included | ~ 110 to 120 50/60 Hz | 1 | – | – | ZB5AW031 | 0.110 | |
| | | 1 | 1 | – | ZB5AW035 | 0.119 | |
| | ~ 230 50 Hz | 1 | – | – | ZB5AW041 | 0.110 | |
| | | 1 | 1 | – | ZB5AW045 | 0.119 | |
| | ~ 220 to 240 60 Hz | 1 | – | – | ZB5AW051 | 0.110 | |
| | | 1 | 1 | – | ZB5AW055 | 0.119 | |
| | BA9s base fitting LED, included | ~ 110 to 120 50/60 Hz | 1 | 1 | White | ZB5AW03D15 | 0.119 |
| | | | | | Green | ZB5AW03D35 | 0.119 |
| | | | | | Red | ZB5AW03D45 | 0.119 |
| | | | | | Orange | ZB5AW03D55 | 0.119 |
| Blue | | | | | ZB5AW03D65 | 0.119 | |
| ~ 230 50 Hz | | 1 | 1 | White | ZB5AW04D15 | 0.119 | |
| | | | | Green | ZB5AW04D35 | 0.119 | |
| | | | | Red | ZB5AW04D45 | 0.119 | |
| | | | | Orange | ZB5AW04D55 | 0.119 | |
| | | | | Blue | ZB5AW04D65 | 0.119 | |
| ~ 220 to 240 60 Hz | 1 | 1 | White | ZB5AW05D15 | 0.120 | | |
| | | | Green | ZB5AW05D35 | 0.120 | | |
| | | | Red | ZB5AW05D45 | 0.120 | | |
| | | | Orange | ZB5AW05D55 | 0.120 | | |
| | | | Blue | ZB5AW05D65 | 0.120 | | |



ZB5AW035

⁽¹⁾ Can be fitted with additional contact blocks: see page 122.

⁽²⁾ Bulb to be ordered separately: see page 146.

Other versions

Complete bodies with integral transformer incorporating Faston® connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Light bodies for pilot lights
with BA 9s base fitting

To combine with heads, see page 123; contacts, see page 122

Light blocks

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Description | Supply voltage V | Sold in lots of | Unit reference | Weight kg |
|---|---------------------|--------------------|-------------------|--------------|
| Direct supply for BA 9s base fitting bulb, 2.4 W max., not included (1) | ≤ 250 | 5 | ZBV6 | 0.016 |

Complete light bodies (mounting collar + light block)

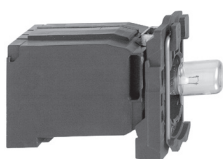
For bulb with BA 9s base fitting (incandescent, neon or LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage V | Color of light source | Reference | Weight kg |
|--|---------------------------------------|--------------------------|-----------|--------------|
| Direct supply | | | | |
| BA 9s base fitting bulb, 2.4 W max, not included (1) | ≤ 250 | – | ZB5AV6 | 0.022 |
| Supply via integral transformer (1.2 VA, 6 V secondary) | | | | |
| BA 9s base fitting incandescent bulb, included | ~ 110 to 120 -50/60 Hz | – | ZB5AV3 | 0.099 |
| | ~ 230 - 50 Hz | – | ZB5AV4 | 0.099 |
| | ~ 220 to 240 - 60 Hz | – | ZB5AV5 | 0.099 |
| | ~ 400 - 50 Hz | – | ZB5AV5 | 0.099 |
| | ~ 440 to 480 - 60 Hz | – | ZB5AV8 | 0.099 |
| | ~ 550 to 600 - 60 Hz | – | ZB5AV9 | 0.099 |
| BA 9s base fitting LED, included | ~ 110 to 120 - 50/60 Hz | White | ZB5AV3D1 | 0.102 |
| | | Green | ZB5AV3D3 | 0.102 |
| | | Red | ZB5AV3D4 | 0.102 |
| | | Orange | ZB5AV3D5 | 0.102 |
| | | Blue | ZB5AV3D6 | 0.102 |
| | | Blue | ZB5AV3D6 | 0.102 |
| | ~ 230 - 50 Hz ~ 220 to 240 - 60 Hz | White | ZB5AV4D1 | 0.102 |
| | | Green | ZB5AV4D3 | 0.102 |
| | | Red | ZB5AV4D4 | 0.102 |
| | | Orange | ZB5AV4D5 | 0.102 |
| | | Blue | ZB5AV4D6 | 0.102 |
| | | Blue | ZB5AV4D6 | 0.102 |
| | ~ 400 - 50/60 Hz | White | ZB5AV5D1 | 0.102 |
| | | Green | ZB5AV5D3 | 0.102 |
| | | Red | ZB5AV5D4 | 0.102 |
| | | Orange | ZB5AV5D5 | 0.102 |
| | | Blue | ZB5AV5D6 | 0.102 |
| | | Blue | ZB5AV5D6 | 0.102 |



ZB5AV6



ZB5AV3



ZB5AV156

Complete light bodies with 3-terminal “remote test” function (mounting collar + light block)

For bulb with BA 9s base fitting (incandescent, neon or LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

| Light source | Supply voltage V | Reference | Weight kg |
|--|---------------------|-----------|--------------|
| Direct supply | | | |
| BA 9s base fitting bulb, 2.4 W max, not included (1) | ≤ 250 | ZB5AV156 | 0.021 |

(1) Bulb to be ordered separately, see page 146.

Other versions

Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 123.

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads
Caps

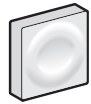


ZBA●

| Push button caps - unmarked | | | | | |
|--|--------------|--------------|-----------------|----------------|-----------|
| For use with | Type of push | Color | Sold in lots of | Unit reference | Weight kg |
| ZB5AA0 circular push button heads supplied without cap | Flush | White | 10 | ZBA1 | 0.001 |
| | | Black | 10 | ZBA2 | 0.001 |
| | | Green | 10 | ZBA3 | 0.001 |
| | | Red | 10 | ZBA4 | 0.001 |
| | | Yellow | 10 | ZBA5 | 0.001 |
| | | Blue | 10 | ZBA6 | 0.001 |
| | | 6 colors (1) | 1 | ZBA9 | 0.006 |
| | Projecting | White | 10 | ZBL1 | 0.001 |
| | | Black | 10 | ZBL2 | 0.001 |
| | | Green | 10 | ZBL3 | 0.001 |
| | | Red | 10 | ZBL4 | 0.001 |
| | | Yellow | 10 | ZBL5 | 0.001 |
| | | Blue | 10 | ZBL6 | 0.001 |
| | | 6 colors (1) | 1 | ZBL9 | 0.006 |
| ZB5CA0 square push button heads supplied without cap | Flush | White | 10 | ZBC1 | 0.001 |
| | | Black | 10 | ZBC2 | 0.001 |
| | | Green | 10 | ZBC3 | 0.001 |
| | | Red | 10 | ZBC4 | 0.001 |
| | | Yellow | 10 | ZBC5 | 0.001 |
| | | Blue | 10 | ZBC6 | 0.001 |



ZBL●



ZBC 1

(1) Set of 6 different colored caps: white, black, green, red, yellow, blue.

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads
Marked push button caps



ZBA●33

Push button caps - marked

| For use with | Type of push | Marking | | Color of cap | Unit reference | Weight kg | |
|---|--------------|-----------|---------|--------------|----------------|-----------|-------|
| | | Text | Color | | | | |
| ZB5AA0 circular push button heads supplied without cap (sold in lots of 10) | Flush | I (1) | White | Green | ZBA331 | 0.001 | |
| | | | Black | White | ZBA131 | 0.001 | |
| | | II | White | Green | ZBA336 | 0.001 | |
| | | | Black | White | ZBA136 | 0.001 | |
| | | III | White | Green | ZBA337 | 0.001 | |
| | | | Black | White | ZBA137 | 0.001 | |
| | | IV | White | Green | ZBA338 | 0.001 | |
| | | | Black | White | ZBL138 | 0.001 | |
| | | START (1) | White | Green | ZBA333 | 0.001 | |
| | | | Black | White | ZBA133 | 0.001 | |
| | | ON | White | Green | ZBA341 | 0.001 | |
| | | | Black | White | ZBA141 | 0.001 | |
| | | UP (1) | Black | White | ZBA343 | 0.001 | |
| | | DOWN (1) | White | Black | ZBA344 | 0.001 | |
| | | ⊕ (1) | White | Black | ZBA245 | 0.001 | |
| | | | Black | White | ZBA145 | 0.001 | |
| | | ↑ (2) | White | Black | ZBA335 | 0.001 | |
| | | | Black | White | ZBA334 | 0.001 | |
| | | O (1) | White | | Red | ZBA432 | 0.001 |
| | | | | | Black | ZBA232 | 0.001 |
| | | ARRET | White | | Red | ZBA433 | 0.001 |
| | | | | | Black | ZBA233 | 0.001 |
| | | STOP (1) | White | | Red | ZBA434 | 0.001 |
| | | | | | Black | ZBA234 | 0.001 |
| | | OFF | White | | Red | ZBA435 | 0.001 |
| | | | | | Black | ZBA235 | 0.001 |
| | | ⚠ | White | Green | ZBA346 | 0.001 | |
| | | R (1) | White | Blue | ZBA639 | 0.001 | |
| + | White | Black | ZBA2934 | 0.001 | | | |
| - | White | Black | ZBA2935 | 0.001 | | | |

(1) Double injection molded marking.

(2) Can be clipped-in at 90° steps, through 360°

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Boots



ZBP0

| Transparent boots for push buttons ⁽¹⁾ | | | | |
|---|---|-----------------|----------------|-----------|
| Description | For use with push button types | Sold in lots of | Unit reference | Weight kg |
| Single boots | Flush with circular head | 10 | ZBPA | 0.002 |
| | Projecting with circular head | 10 | ZBP0 | 0.002 |
| | Flush or projecting with circular head for food industry applications | 10 | ZBP0A | 0.002 |
| Colored boots | | | | |
| Description | Color | Sold in lots of | Unit reference | Weight kg |
| Colored boots (can be replaced without dismantling the head) | Black | 10 | ZB2BP012 | 0.003 |
| | Green | 10 | ZB2BP013 | 0.003 |
| | Red | 10 | ZB2BP014 | 0.003 |
| | Orange | 10 | ZB2BP015 | 0.003 |
| | Blue | 10 | ZB2BP016 | 0.003 |

(1) Boots for multiple-headed push buttons: see page 107.

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Lens caps



ZBV01●3

| Lens caps | | | | |
|---|---|-----------------|----------------|-----------|
| For use with | Color | Sold in lots of | Unit reference | Weight kg |
| Circular lens caps for light sources with integral LED | | | | |
| Pilot lights | White | 10 | ZBV0113 | 0.002 |
| | Green | 10 | ZBV0133 | 0.002 |
| | Red | 10 | ZBV0143 | 0.002 |
| | Orange | 10 | ZBV0153 | 0.002 |
| | Blue | 10 | ZBV0163 | 0.002 |
| | 5 different colored grooved lenses (1) | 1 | ZBV0103S | 0.010 |
| Illuminated push buttons, with flush push | White | 10 | ZBW9113 | 0.002 |
| | Green | 10 | ZBW9133 | 0.002 |
| | Red | 10 | ZBW9143 | 0.002 |
| | Orange | 10 | ZBW9153 | 0.002 |
| | Blue | 10 | ZBW9163 | 0.002 |
| Illuminated push buttons, with projecting push | White | 10 | ZBW9313 | 0.002 |
| | Green | 10 | ZBW9333 | 0.002 |
| | Red | 10 | ZBW9343 | 0.002 |
| | Orange | 10 | ZBW9353 | 0.002 |
| | Blue | 10 | ZBW9363 | 0.002 |
| Square lens caps for light sources with integral LED | | | | |
| Pilot lights | White | 10 | ZBCV0113 | 0.002 |
| | Green | 10 | ZBCV0133 | 0.002 |
| | Red | 10 | ZBCV0143 | 0.002 |
| | Orange | 10 | ZBCV0153 | 0.002 |
| | Blue | 10 | ZBCV0163 | 0.002 |
| Illuminated push buttons, with flush push | White | 10 | ZBCW9113 | 0.002 |
| | Green | 10 | ZBCW9133 | 0.002 |
| | Red | 10 | ZBCW9143 | 0.002 |
| | Orange | 10 | ZBCW9153 | 0.002 |
| | Blue | 10 | ZBCW9163 | 0.002 |
| Illuminated push buttons, with projecting push | White | 10 | ZBCW9313 | 0.002 |
| | Green | 10 | ZBCW9333 | 0.002 |
| | Red | 10 | ZBCW9343 | 0.002 |
| | Orange | 10 | ZBCW9353 | 0.002 |
| | Blue | 10 | ZBCW9363 | 0.002 |
| Circular lens caps for light sources with BA 9s base fitting | | | | |
| Pilot lights | White | 10 | ZBV011 | 0.002 |
| | Green | 10 | ZBV013 | 0.002 |
| | Red | 10 | ZBV014 | 0.002 |
| | Orange | 10 | ZBV015 | 0.002 |
| | Blue | 10 | ZBV016 | 0.002 |
| | Clear | 10 | ZBV017 | 0.002 |
| | Illuminated push buttons, with flush push | White | 10 | ZBW911 |
| Green | | 10 | ZBW913 | 0.002 |
| Red | | 10 | ZBW914 | 0.002 |
| Orange | | 10 | ZBW915 | 0.002 |
| Blue | | 10 | ZBW916 | 0.002 |
| Clear | | 10 | ZBW917 | 0.002 |
| Illuminated push buttons, with projecting push | White | 10 | ZBW931 | 0.002 |
| | Green | 10 | ZBW933 | 0.002 |
| | Red | 10 | ZBW934 | 0.002 |
| | Orange | 10 | ZBW935 | 0.002 |
| | Blue | 10 | ZBW936 | 0.002 |
| | Clear | 10 | ZBW937 | 0.002 |

(1) Clear, green, red, orange, blue.

Harmony™ XB5 plastic 22 mm push buttons

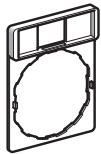
8 x 27 mm legends with
30 x 40 mm legend holders



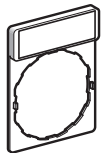
ZBZ34



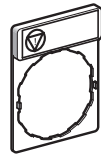
ZBYH101



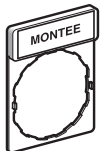
ZBZ32



ZBY101



ZBY4140



ZBY2107

30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends (1)

| Description | Legend | | Sold in lots of | Unit reference | Weight kg |
|-------------------|----------------------------|---------|-----------------|----------------|-----------|
| | Color | Marking | | | |
| Without legend | – | – | 10 | ZBZ34 | 0.003 |
| With blank legend | Black or red background | – | 10 | ZBY2H101 | 0.004 |
| | White or yellow background | – | 10 | ZBY4H101 | 0.004 |

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends (1)

| Description | Legend | | Sold in lots of | Unit reference | Weight kg | | |
|---|--------------------------------|---|--------------------------------|-----------------------|-------------|---------|-------|
| | Color | Marking | | | | | |
| Without legend | – | – | 10 | ZBZ32 | 0.001 | | |
| With blank legend (for engraving) | Black or red background | – | 10 | ZBY2101 | 0.002 | | |
| | White or yellow background | – | 10 | ZBY4101 | 0.002 | | |
| With 8 x 27 mm legend (with International marking) | Black or red background (2) | O (black background) | 1 | ZBY2146 | 0.002 | | |
| | | O (red background) | 1 | ZBY2931 | 0.002 | | |
| | | I | 1 | ZBY2147 | 0.002 | | |
| | | II | 1 | ZBY2148 | 0.002 | | |
| | | O-I | 1 | ZBY2178 | 0.002 | | |
| | | I-II | 1 | ZBY2179 | 0.002 | | |
| | | I-O-II | 1 | ZBY2186 | 0.002 | | |
| | | AUTO | 1 | ZBY2115 | 0.002 | | |
| | | STOP | 1 | ZBY2304 | 0.002 | | |
| | | Yellow background | | 1 | ZBY4140 (3) | 0.002 | |
| | | With 8 x 27 mm legend (with French language marking) | Black or red background (2) | ARRET (red backgr.) | 1 | ZBY2104 | 0.002 |
| | | | | ARRET (black backgr.) | 1 | ZBY0104 | 0.002 |
| | | | | ARRET GENERAL | 1 | ZBY2129 | 0.002 |
| | | | | ARRET REARMEMENT | 1 | ZBY2133 | 0.002 |
| | | | | ARRET-MARCHE | 1 | ZBY2166 | 0.002 |
| ARRIERE | 1 | | | ZBY2106 | 0.002 | | |
| AUTO CYCLE-CYCLE | 1 | | | ZBY2198 | 0.002 | | |
| AUTO CYCLE-MAIN | 1 | | | ZBY2199 | 0.002 | | |
| AUTO-MAIN | 1 | | | ZBY2164 | 0.002 | | |
| AUTO-O-MAIN | 1 | | | ZBY2185 | 0.002 | | |
| AVANT | 1 | | | ZBY2105 | 0.002 | | |
| AVANT-O-ARRIERE | 1 | | | ZBY2184 | 0.002 | | |
| C-P-C-NORMAL | 1 | | | ZBY2165 | 0.002 | | |
| CYCLE-MAIN | 1 | | | ZBY2197 | 0.002 | | |
| DECLENCHEMENT | 1 | | | ZBY2132 | 0.002 | | |
| DEFAUT (black backgr.) | 1 | | | ZBY2134 | 0.002 | | |
| DEFAUT (red backgr.) | 1 | | | ZBY2135 | 0.002 | | |
| DEPART CYCLE | 1 | | | ZBY2195 | 0.002 | | |
| DESCENTE | 1 | | | ZBY2108 | 0.002 | | |
| DROITE | 1 | | | ZBY2109 | 0.002 | | |
| ENCLANCHEMENT | 1 | | | ZBY2131 | 0.002 | | |
| EN SERVICE | 1 | | | ZBY2111 | 0.002 | | |
| FERMETURE | 1 | | | ZBY2114 | 0.002 | | |
| GAUCHE | 1 | | | ZBY2110 | 0.002 | | |
| HORS SERVICE | 1 | | | ZBY2112 | 0.002 | | |
| HORS-EN | 1 | | | ZBY2167 | 0.002 | | |
| LENT | 1 | | | ZBY2127 | 0.002 | | |
| MAIN | 1 | ZBY2116 | 0.002 | | | | |
| MARCHE | 1 | ZBY2103 | 0.002 | | | | |
| MONTEE | 1 | ZBY2107 | 0.002 | | | | |
| OUVERTURE | 1 | ZBY2113 | 0.002 | | | | |
| PHASE / PHASE | 1 | ZBY2196 | 0.002 | | | | |
| REARMEMENT (red background) | 1 | ZBY2123 | 0.002 | | | | |
| REARMEMENT (black background) | 1 | ZBY0123 | 0.002 | | | | |
| SOUS TENSION | 1 | ZBY2126 | 0.002 | | | | |
| VITE | 1 | ZBY2128 | 0.002 | | | | |
| Red background | ARRET D'URGENCE | 1 | ZBY2130 (3) | 0.002 | | | |

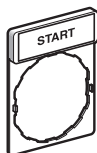
(1) For legends, see pages 140 to 142.

(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

(3) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB5 plastic 22 mm push buttons

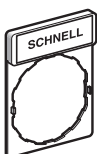
8 x 27 mm legends with
30 x 40 mm legend holders




ZBY2303

Standard (30 x 40 mm) legend holders with 8 x 27 mm legends (continued)


| Description | Legend Color | Marking | Reference | Weight kg | | |
|--|--------------------------------|---|--------------------------------|----------------|-------------|-------|
| With legend (with English language marking) | Black or red background (1) | AUTO-HAND | ZBY2364 | 0.002 | | |
| | | AUTO-O-HAND | ZBY2385 | 0.002 | | |
| | | CLOSE | ZBY2314 | 0.002 | | |
| | | DOWN | ZBY2308 | 0.002 | | |
| | | FAST | ZBY2328 | 0.002 | | |
| | | FORWARD | ZBY2305 | 0.002 | | |
| | | HAND | ZBY2316 | 0.002 | | |
| | | HAND-OFF-AUTO | ZBY2387 | 0.002 | | |
| | | INCH | ZBY2321 | 0.002 | | |
| | | LEFT | ZBY2310 | 0.002 | | |
| | | OFF | ZBY2312 | 0.002 | | |
| | | OFF-ON | ZBY2367 | 0.002 | | |
| | | ON | ZBY2311 | 0.002 | | |
| | | OPEN | ZBY2313 | 0.002 | | |
| | | POWER ON | ZBY2326 | 0.002 | | |
| | | RESET (red background) | ZBY2323 | 0.002 | | |
| | | RESET (black background) | ZBY2322 | 0.002 | | |
| | | REVERSE | ZBY2306 | 0.002 | | |
| | | RIGHT | ZBY2309 | 0.002 | | |
| | | RUN | ZBY2334 | 0.002 | | |
| | | SLOW | ZBY2327 | 0.002 | | |
| | | START | ZBY2303 | 0.002 | | |
| | | STOP-START | ZBY2366 | 0.002 | | |
| | | UP | ZBY2307 | 0.002 | | |
| | | | Red background | EMERGENCY STOP | ZBY2330 (2) | 0.002 |
| | | With legend (with German language marking) | Black or red background (1) | AB | ZBY2208 | 0.002 |
| AUF | ZBY2207 | | | 0.002 | | |
| AUS | ZBY2204 | | | 0.002 | | |
| AUS-EIN | ZBY2266 | | | 0.002 | | |
| AUS-IN BETRIEB | ZBY2267 | | | 0.002 | | |
| AUS-RÜCKSTELLUNG | ZBY2233 | | | 0.002 | | |
| AUSSCHALTEN | ZBY2232 | | | 0.002 | | |
| AUTO-HAND | ZBY2364 | | | 0.002 | | |
| AUTO-O-HAND | ZBY2385 | | | 0.002 | | |
| AUTOZYKL-HAND | ZBY2299 | | | 0.002 | | |
| AUTOZYKL- 1 ZYKL | ZBY2298 | | | 0.002 | | |
| C-P-C-NORMAL | ZBY2265 | | | 0.002 | | |
| EIN | ZBY2203 | | | 0.002 | | |
| EINSCHALTEN | ZBY2231 | | | 0.002 | | |
| HAND | ZBY2316 | | | 0.002 | | |
| LANGSAM | ZBY2227 | | | 0.002 | | |
| LINKS | ZBY2210 | | | 0.002 | | |
| NOT-AUS (red background) | ZBY2230 | | | 0.002 | | |
| ÖFFNEN | ZBY2213 | | | 0.002 | | |
| RECHTS | ZBY2209 | | | 0.002 | | |
| RÜCKSTELLUNG | ZBY2223 | | | 0.002 | | |
| SCHLIESSEN | ZBY2214 | | | 0.002 | | |
| SCHNELL | ZBY2228 | | | 0.002 | | |
| SPANNUNG EIN | ZBY2226 | | | 0.002 | | |
| STEUERUNG AUS | ZBY2212 | | | 0.002 | | |
| STEUERUNG EIN | ZBY2211 | | | 0.002 | | |
| STÖRUNG (black background) | ZBY2234 | | | 0.002 | | |
| STÖRUNG (red background) | ZBY2235 | | | 0.002 | | |
| VOR | ZBY2205 | | | 0.002 | | |
| VOR-O-ZURÜCK | ZBY2284 | | | 0.002 | | |
| ZURÜCK | ZBY2206 | | | 0.002 | | |
| ZYKLUS-HAND | ZBY2297 | | | 0.002 | | |
| ZYKLUSSTART | ZBY2295 | | | 0.002 | | |
| | Red background | | | NOT-HALT | ZBY2229 (2) | 0.002 |
| | Yellow background | NOT-HALT | ZBY22420001 (2) | 0.002 | | |




ZBY2228

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Harmony™ XB5 plastic 22 mm push buttons 8 x 27 mm legends

| 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34) | | | | | | |
|--|------------------|----------------------|------------------|---|-------------|-------|
| Color | Marking | | Reference | Weight kg | | |
| Without | White or yellow | O (black background) | ZBY0102 | 0.001 | | |
| International | Black or red (1) | O (black background) | ZBY02146 | 0.001 | | |
| | | O (red background) | ZBY02931 | 0.001 | | |
| | | I | ZBY02147 | 0.001 | | |
| | | II | ZBY02148 | 0.001 | | |
| | | O-I | ZBY02178 | 0.001 | | |
| | | I-II | ZBY02179 | 0.001 | | |
| | | I-O-II | ZBY02186 | 0.001 | | |
| | | AUTO | ZBY02115 | 0.001 | | |
| | | STOP | ZBY02304 | 0.001 | | |
| | | | Red |  | ZBY0140 (2) | 0.001 |
| | | French | Black or red (1) | ARRET (red background) | ZBY02104 | 0.001 |
| ARRET (black background) | ZBY00104 | | | 0.001 | | |
| ARRET GENERAL | ZBY02129 | | | 0.001 | | |
| ARRET REARMEMENT | ZBY02133 | | | 0.001 | | |
| ARRET-MARCHE | ZBY02166 | | | 0.001 | | |
| ARRIERE | ZBY02106 | | | 0.001 | | |
| AUTO CYCLE-CYCLE | ZBY02198 | | | 0.001 | | |
| AUTO CYCLE-MAIN | ZBY02199 | | | 0.001 | | |
| AUTO-MAIN | ZBY02164 | | | 0.001 | | |
| AUTO-O-MAIN | ZBY02185 | | | 0.001 | | |
| AVANT | ZBY02105 | | | 0.001 | | |
| AVANT-O-ARRIERE | ZBY02184 | | | 0.001 | | |
| C-P-C-NORMAL | ZBY02165 | | | 0.001 | | |
| CYCLE-MAIN | ZBY02197 | | | 0.001 | | |
| DECLENCHEMENT | ZBY02132 | | | 0.001 | | |
| DEFAUT (black background) | ZBY02134 | | | 0.001 | | |
| DEFAUT (red background) | ZBY02135 | | | 0.001 | | |
| DEPART CYCLE | ZBY02195 | | | 0.001 | | |
| DESCENTE | ZBY02108 | | | 0.001 | | |
| DROITE | ZBY02109 | | | 0.001 | | |
| ENCLANCHEMENT | ZBY02131 | | | 0.001 | | |
| EN SERVICE | ZBY02111 | | | 0.001 | | |
| FERMETURE | ZBY02114 | | | 0.001 | | |
| GAUCHE | ZBY02110 | | | 0.001 | | |
| HORS SERVICE | ZBY02112 | | | 0.001 | | |
| HORS-EN | ZBY02167 | | | 0.001 | | |
| LENT | ZBY02127 | | | 0.001 | | |
| MAIN | ZBY02116 | | | 0.001 | | |
| MARCHE | ZBY02103 | | | 0.001 | | |
| MONTEE | ZBY02107 | | | 0.001 | | |
| OUVERTURE | ZBY02113 | | | 0.001 | | |
| PHASE / PHASE | ZBY02196 | | | 0.001 | | |
| REARMEMENT (red background) | ZBY02123 | | | 0.001 | | |
| REARMEMENT (black background) | ZBY00123 | 0.001 | | | | |
| SOUS TENSION | ZBY02126 | 0.001 | | | | |
| VITE | ZBY02128 | 0.001 | | | | |
| | Red | ARRET D'URGENCE | ZBY02130 | 0.001 | | |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above)

(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.



ZBY02178



ZBY0140



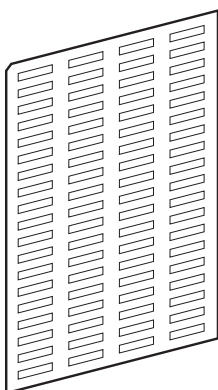
ZBY0104

Harmony™ XB5 plastic 22 mm push buttons 8 x 27 mm legends

START
ZBY02303

| 8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34) (continued) | | | | | | |
|--|------------------|----------------------------|--------------|-----------|------------------|-------|
| Color | Marking | | Reference | Weight kg | | |
| English | Black or red (1) | AUTO-HAND | ZBY02364 | 0.001 | | |
| | | AUTO-O-HAND | ZBY02385 | 0.001 | | |
| | | CLOSE | ZBY02314 | 0.001 | | |
| | | DOWN | ZBY02308 | 0.001 | | |
| | | EMERGENCY STOP | ZBY02330 | 0.001 | | |
| | | FAST | ZBY02328 | 0.001 | | |
| | | FORWARD | ZBY02305 | 0.001 | | |
| | | HAND | ZBY02316 | 0.001 | | |
| | | HAND-OFF-AUTO | ZBY02387 | 0.001 | | |
| | | INCH | ZBY02321 | 0.001 | | |
| | | LEFT | ZBY02310 | 0.001 | | |
| | | OFF | ZBY02312 | 0.001 | | |
| | | OFF-ON | ZBY02367 | 0.001 | | |
| | | ON | ZBY02311 | 0.001 | | |
| | | OPEN | ZBY02313 | 0.001 | | |
| | | POWER ON | ZBY02326 | 0.001 | | |
| | | RESET (red background) | ZBY02323 | 0.001 | | |
| | | RESET (black background) | ZBY02322 | 0.001 | | |
| | | REVERSE | ZBY02306 | 0.001 | | |
| | | RIGHT | ZBY02309 | 0.001 | | |
| | | RUN | ZBY02334 | 0.001 | | |
| | | SLOW | ZBY02327 | 0.001 | | |
| | | START | ZBY02303 | 0.001 | | |
| STOP-START | ZBY02366 | 0.001 | | | | |
| UP | ZBY02307 | 0.001 | | | | |
| Red | | EMERGENCY STOP | ZBY02330 (2) | 0.001 | | |
| German | Black or red (1) | AB | ZBY02208 | 0.001 | | |
| | | AUF | ZBY02207 | 0.001 | | |
| | | AUS | ZBY02204 | 0.001 | | |
| | | AUS-EIN | ZBY02266 | 0.001 | | |
| | | AUS-IN BETRIEB | ZBY02267 | 0.001 | | |
| | | AUS-RÜCKSTELLUNG | ZBY02233 | 0.001 | | |
| | | AUSSCHALTEN | ZBY02232 | 0.001 | | |
| | | AUTO-HAND | ZBY02364 | 0.001 | | |
| | | AUTO-O-HAND | ZBY02385 | 0.001 | | |
| | | AUTOZYKL-HAND | ZBY02299 | 0.001 | | |
| | | AUTOZYKL- 1 ZYKL | ZBY02298 | 0.001 | | |
| | | C-P-C-NORMAL | ZBY02265 | 0.001 | | |
| | | EIN | ZBY02203 | 0.001 | | |
| | | EINSCHALTEN | ZBY02231 | 0.001 | | |
| | | HAND | ZBY02316 | 0.001 | | |
| | | LANGSAM | ZBY02227 | 0.001 | | |
| | | LINKS | ZBY02210 | 0.001 | | |
| | | NOT-AUS (red background) | ZBY02230 | 0.001 | | |
| | | ÖFFNEN | ZBY02213 | 0.001 | | |
| | | RECHTS | ZBY02209 | 0.001 | | |
| | | RÜCKSTELLUNG | ZBY02223 | 0.001 | | |
| | | SCHLIESSEN | ZBY02214 | 0.001 | | |
| | | SCHNELL | ZBY02228 | 0.001 | | |
| | | SPANNUNG EIN | ZBY02226 | 0.001 | | |
| | | STEUERUNG AUS | ZBY02212 | 0.001 | | |
| | | STEUERUNG EIN | ZBY02211 | 0.001 | | |
| | | STÖRUNG (black background) | ZBY02234 | 0.001 | | |
| | | STÖRUNG (red background) | ZBY02235 | 0.001 | | |
| | | VOR | ZBY02205 | 0.001 | | |
| | | VOR-O-ZURÜCK | ZBY02284 | 0.001 | | |
| | | ZURÜCK | ZBY02206 | 0.001 | | |
| | | ZYKLUS-HAND | ZBY02297 | 0.001 | | |
| | | ZYKLUSSTART | ZBY02295 | 0.001 | | |
| | | Red | | NOT-HALT | ZBY02229 (2) | 0.001 |
| | | Yellow | | NOT-HALT | ZBY022420001 (2) | 0.001 |

SCHNELL
ZBY02228



ZBY4100

Sheets of peel-off legends (with backing board and protective transparent cover)

| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|----------------------------------|---|-----------------|----------------|-----------|
| Sheet of 76 legends 8 x 27 mm | 30 x 40 mm legend holder ZBZ32 and ZBZ34 | 10 | ZBY4100 | 0.043 |

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

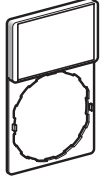
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Harmony™ XB5 plastic 22 mm push buttons

Legend holders for 18 x 27 mm legends
18 x 27 mm legends for engraving or printing



ZBZ33



ZBY610●

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

| Description | Color of background | Sold in lots of | Unit reference | Weight kg |
|-------------------|---------------------|-----------------|----------------|-----------|
| Without legend | – | 10 | ZBZ33 | 0.001 |
| With blank legend | Black or red | 10 | ZBY6101 | 0.002 |
| | White or yellow | 10 | ZBY6102 | 0.002 |
| | Yellow | 10 | ZBY6140 (1) | 0.002 |



ZBZ35



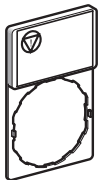
ZBY6H10●

30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

| Description | Color of background | Sold in lots of | Unit reference | Weight kg |
|-------------------|---------------------|-----------------|----------------|-----------|
| Without legend | – | 10 | ZBZ35 | 0.003 |
| With blank legend | Black or red | 10 | ZBY6H101 | 0.004 |
| | White or yellow | 10 | ZBY6H102 | 0.004 |

18 x 27 mm legends for engraving (for 30 x 50 mm legend-holders)

| Description mm | Language | Marking | Sold in lots of | Unit reference | Weight kg |
|----------------------------|---------------|-----------------|-----------------|----------------|-----------|
| Black or red background | – | Without | 10 | ZBY0501 | 0.001 |
| White or yellow background | – | Without | 10 | ZBY0502 | 0.001 |
| Red background | International | | 10 | ZBY5140 (1) | 0.001 |
| | French | ARRET D'URGENCE | 10 | ZBY55130 (1) | 0.001 |
| | English | EMERGENCY STOP | 10 | ZBY55330 (1) | 0.001 |



ZBY5140

Sheets of peel-off legends (with backing board and protective transparent cover)

| Description | For use with | Sold in lots of | Unit reference | Weight kg |
|--------------------------------|--|-----------------|----------------|-----------|
| Sheet of 40 18 x 27 mm legends | 30 x 50 mm legend holder ZBZ33 and ZBZ35 | 10 | ZBY5100 | 0.044 |



ZBY42101



ZBY62101

Nameplates, 30 x 40 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY42101 |
| White | Red | ZBY44101 |
| Black | Yellow | ZBY41101 |
| Black | White | ZBY45101 |

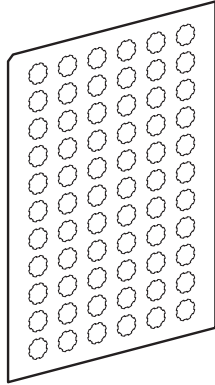
Nameplates, 30 x 50 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY62101 |
| White | Red | ZBY64101 |
| Black | Yellow | ZBY61101 |
| Black | White | ZBY65101 |

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB5 plastic 22 mm push buttons

Legends, for insertion, for printing, pre-printed, labelling software, circular legends



ZBY1101

Legends for XB5A push buttons, illuminated push buttons and pilot lights

| Description | Language | Marking | Sold in lots of | Unit reference | Weight kg |
|--|---------------|----------|-----------------|----------------|-----------|
| Sheets of 66 circular peel-off, transparent, self-adhesive legends | – | Without | 10 | ZBY1101 | 0.017 |
| Strips of 66 circular peel-off, transparent, self-adhesive legends | International | O | 10 | ZBY1146 | 0.017 |
| | | I | 10 | ZBY1147 | 0.017 |
| | | II | 10 | ZBY1148 | 0.017 |
| | | III | 10 | ZBY1149 | 0.017 |
| | | STOP | 10 | ZBY1304 | 0.017 |
| | | † | 10 | ZBY1912 | 0.017 |
| | French | ARRET | 10 | ZBY1104 | 0.017 |
| | | ARRIERE | 10 | ZBY1106 | 0.017 |
| | | AUTO | 10 | ZBY1115 | 0.017 |
| | | AVANT | 10 | ZBY1105 | 0.017 |
| | | DESCENTE | 10 | ZBY1108 | 0.017 |
| | | MAIN | 10 | ZBY1116 | 0.017 |
| | | MARCHE | 10 | ZBY1103 | 0.017 |
| | | MONTEE | 10 | ZBY1107 | 0.017 |
| | English | HAND | 10 | ZBY1316 | 0.017 |
| | | OFF | 10 | ZBY1312 | 0.017 |
| | | ON | 10 | ZBY1311 | 0.017 |
| | | START | 10 | ZBY1303 | 0.017 |
| | German | AB | 10 | ZBY1208 | 0.017 |
| AUF | | 10 | ZBY1207 | 0.017 | |
| AUS | | 10 | ZBY1204 | 0.017 | |
| EIN | | 10 | ZBY1203 | 0.017 | |
| ZU | | 10 | ZBY1214 | 0.017 | |

Circular yellow legends for mushroom head push buttons

Used for “Emergency stop” function

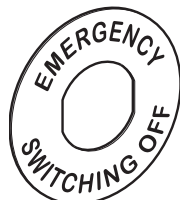
| Diameter mm | Conforming to standards | Marking on yellow background | Reference | Weight kg |
|-------------|--------------------------------------|------------------------------|-----------|-----------|
| 60 | EN/IEC 60204-1 and EN/ISO 13850:2006 | – | ZBY9140 | 0.004 |
| | | ARRET D'URGENCE | ZBY9130 | 0.004 |
| | | EMERGENCY STOP | ZBY9330 | 0.004 |
| | | NOT-HALT | ZBY9230 | 0.004 |
| | | PARADA DE EMERGENCIA | ZBY9430 | 0.004 |
| | | ARRESTO DE EMERGENZA | ZBY9630 | 0.004 |
| 90 | EN/IEC 60204-1 and EN/ISO 13850:2006 | – | ZBY8140 | 0.008 |
| | | ARRET D'URGENCE | ZBY8130 | 0.008 |
| | | EMERGENCY STOP | ZBY8330 | 0.008 |
| | | NOT-HALT | ZBY8230 | 0.008 |
| | | PARADA DE EMERGENCIA | ZBY8430 | 0.008 |
| | | ARRESTO DE EMERGENZA | ZBY8630 | 0.008 |




ZBY9330

Used for “Emergency switching off” function

| | | | | |
|----|----------------|---------------------------|---------|-------|
| 60 | EN/IEC 60204-1 | – | ZBY9101 | 0.004 |
| | | COUPURE D'URGENCE | ZBY9160 | 0.004 |
| | | EMERGENCY SWITCHING OFF | ZBY9360 | 0.004 |
| | | NOT-AUS | ZBY9260 | 0.004 |
| | | DESCONEXION DE EMERGENCIA | ZBY9460 | 0.004 |
| | | INTERRUZIONE DI EMERGENZA | ZBY9660 | 0.004 |
| 90 | EN/IEC 60204-1 | – | ZBY8101 | 0.008 |
| | | COUPURE D'URGENCE | ZBY8160 | 0.008 |
| | | EMERGENCY SWITCHING OFF | ZBY8360 | 0.008 |
| | | NOT-AUS | ZBY8260 | 0.008 |
| | | DESCONEXION DE EMERGENCIA | ZBY8460 | 0.008 |
| | | INTERRUZIONE DI EMERGENZA | ZBY8660 | 0.008 |

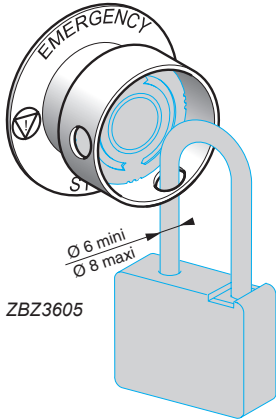


ZBY9360

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Harmony™ XB5 plastic 22 mm push buttons

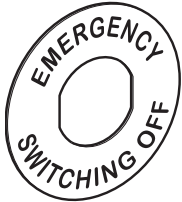
Accessories for push buttons



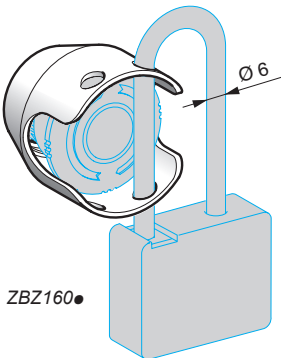
ZBZ3605



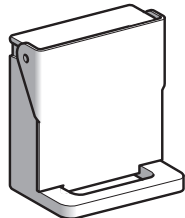
ZBY9330T



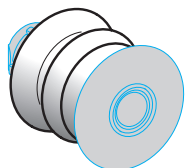
ZBY9360T



ZBZ160



ZB4BZ64



ZBZ8

Accessories for mushroom head push buttons

Used for Emergency stop (1) or Emergency switching off function (2)

| Description | For use with | Color | Reference | Weight kg |
|--------------------------------------|---|--------|-----------|-----------|
| Padlocking kit (3) (4) (padlockable) | Emergency stop (1) and Emergency switching off function (2), only with the following Ø 40 trigger action push buttons: XB5AS844●, XB5AS944●, ZB5AS844, ZB5AS944●. | Yellow | ZBZ3605 | 0.045 |

| Description | Marking | Color | Reference | Weight kg |
|--|--|-----------------|-----------|-----------|
| Ø 60 mm legend for padlocking device ZBZ3605 For Emergency stop function (1) | – | Yellow | ZBY9140T | 0.004 |
| | ARRET D'URGENCE | Yellow | ZBY9130T | 0.004 |
| | EMERGENCY STOP | Yellow | ZBY9330T | 0.004 |
| | NOT-HALT | Yellow | ZBY9230T | 0.004 |
| Ø 60 mm legend for padlocking device ZBZ3605 For Emergency switching off function (2) | – | Yellow | ZBY9101T | 0.004 |
| | COUPURE D'URGENCE | Yellow | ZBY9160T | 0.004 |
| | EMERGENCY SWITCHING OFF | Yellow | ZBY9360T | 0.004 |
| | NOT-AUS | Yellow | ZBY9260T | 0.004 |
| Metal guards Padlockable (4) | Emergency stop function (1) only with the following Ø 40 trigger action push buttons: XB5AT845, XB5AS844 XB5AS9445, ZB5AT84, ZB5AS844, ZB5AS944. | Chromium plated | ZBZ1600 | 0.046 |
| | | Black | ZBZ1602 | 0.046 |
| | | Red | ZBZ1604 | 0.046 |
| | | Blue | ZBZ1606 | 0.046 |

Other accessories

| Description | For use with | Color | Reference | Weight kg |
|-------------------|------------------------------------|--------|-----------|-----------|
| Plastic guard | Selector switches and key switches | Black | ZBZ2102 | 0.005 |
| Padlockable flaps | Push buttons | Black | ZB4BZ62 | 0.076 |
| | | Red | ZB4BZ64 | 0.076 |
| | | Yellow | ZB4BZ65 | 0.076 |
| | | Blue | ZB4BZ66 | 0.076 |

| Description | Application | Material | Color | Sold in lots of | Unit reference | Weight kg |
|---|---|----------|--------|-----------------|----------------|-----------|
| Bellows seals for harsh environments (IP 69K) (5) | Environments subject to humidity, dust, high-pressure cleaning etc... | Silicone | Red | 2 | ZBZ48 | 0.009 |
| | | EPDM | Black | 2 | ZBZ28 | 0.009 |
| | | | Yellow | 2 | ZBZ58 | 0.009 |

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.
 (2) Ensures conformity with standard EN/IEC 60204-1.
 (3) Standard circular legends are not compatible with this product. Use special legends ZBY9●●●T.
 (4) No isolation function is possible when this guard is fitted.
 (5) Only when mounted on control stations. Use legends ZBY9●●●T.

Harmony™ XB5 plastic 22 mm push buttons

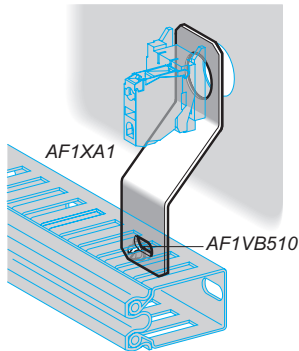
Accessories for push buttons



ZB5SZ3

Other accessories (continued)

| Description | For use with | Color | Sold in lots of | Unit reference | Weight kg |
|--|-------------------------------------|-----------------|-----------------|----------------|-----------|
| Black plastic square blanking plug (with mounting nut) (1) | Ø 22 mm control and signaling units | Chromium plated | 10 | ZB5SZ5 | 0.009 |
| | | Black | 10 | ZB5SZ37 | 0.009 |
| Black plastic circular blanking plug (with mounting nut) | Ø 22 mm control and signaling units | | 10 | ZB5SZ3 | 0.009 |
| Liquid spray protective washer to be fitted in the head | Ø 22 mm control and signaling units | Chromium plated | 50 | ZB4BZ007 | 0.010 |
| | | Black | 50 | ZB4BZ0077 | 0.010 |



| Description | Application | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|----------------|-----------|
| Cable ducting support | Mounting beneath head | 10 | AF1XA1 | 0.030 |
| M5 x 10 screw, with hexagonal slotted head | For mounting cable ducting | 100 | AF1VB510 | 0.003 |
| Support | For XB5A push buttons, switches and pilot lights | 1 | DX1AP52 | 0.160 |

(1) Body/mounting collar ZB5AZ009 required for mounting must be ordered separately, see page 125.

Harmony™ XB5 plastic 22 mm push buttons

Accessories for illuminated push buttons
Bulbs



DL1CJ0●●●



DL1CE●●●



DL1CF●●●



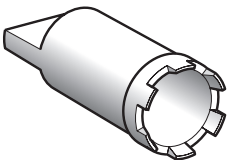
XBFX13



ZBZ8



ZBZA31



ZB5AZ905



ZB5AZ902

Bulbs with BA 9s base fitting and associated accessories

| Description | Specifications | Color | Sold in lots of | Unit reference | Weight kg |
|--------------------------|--|--------|-----------------|----------------|-----------|
| LEDs | ≈ 24 V | White | 1 | DL1CJ0241 | 0.002 |
| | | Green | 1 | DL1CJ0243 | 0.002 |
| | | Red | 1 | DL1CJ0244 | 0.002 |
| | | Orange | 1 | DL1CJ0245 | 0.002 |
| | | Blue | 1 | DL1CJ0246 | 0.002 |
| | ≈ 48 V | Green | 1 | DL1CJ0483 | 0.002 |
| | | Red | 1 | DL1CJ0484 | 0.002 |
| | | Orange | 1 | DL1CJ0485 | 0.002 |
| | 6 V - 1.2 W | White | 1 | DL1CD0061 | 0.002 |
| | | Green | 1 | DL1CD0063 | 0.002 |
| | | Red | 1 | DL1CD0064 | 0.002 |
| | | Orange | 1 | DL1CD0065 | 0.002 |
| | | Blue | 1 | DL1CD0066 | 0.002 |
| Incandescent bulbs | 6 V - 1.2 W | – | 10 | DL1CB006 | 0.002 |
| | 24 V - 2 W | – | 10 | DL1CE024 | 0.002 |
| | 120 to 130 V 2.4 W | – | 10 | DL1CE130 | 0.002 |
| Neon bulbs | 120 to 130 V | – | 10 | DL1CF110 | 0.002 |
| | 230 to 240 V | – | 10 | DL1CF220 | 0.002 |
| Bulb extractor | – | – | 1 | XBFX13 | 0.005 |
| Lens cap tightening tool | Illuminated push buttons, with flush push | – | 1 | ZBZ8 | 0.009 |
| Add-on square trim | Gives a square appearance to ZB5A circular heads | – | 10 | ZB5AZ31 | 0.002 |
| Nut | Head mounting | – | 10 | ZB5AZ901 | 0.002 |
| Bezel tool | Tightening head mounting nut ZB5AZ901 | – | 1 | ZB5AZ905 | 0.016 |
| Anti-rotation plate | Prevents rotation of the head | – | 10 | ZB5AZ902 | 0.008 |

Harmony™ XB5 plastic 22 mm push buttons

Accessories for push buttons

Keys

Replacement keys

| Description | Key number | Reference | Weight kg |
|--|------------|-----------|--------------|
| For latching mushroom head push buttons and selector switches | | | |
| Sets of 2 keys | 455 | ZBG455 | 0.013 |
| | 421E | ZBG421E | 0.014 |
| | 458A | ZBG458A | 0.014 |
| | 520E | ZBG520E | 0.014 |
| | 3131A | ZBG3131A | 0.014 |
| | 4A185 | ZBDA185 | 0.014 |
| | LU1 | ZBDLU1 | 0.014 |
| | LU2 | ZBDLU2 | 0.014 |
| | LU3 | ZBDLU3 | 0.014 |
| | LU4 | ZBDLU4 | 0.014 |
| | LU5 | ZBDLU5 | 0.014 |
| | LU6 | ZBDLU6 | 0.014 |
| | LU7 | ZBDLU7 | 0.014 |
| | LU8 | ZBDLU8 | 0.014 |
| | LU9 | ZBDLU9 | 0.014 |
| | LU10 | ZBDLU10 | 0.014 |
| | LU11 | ZBDLU11 | 0.014 |
| | LU12 | ZBDLU12 | 0.014 |
| | LU13 | ZBDLU13 | 0.014 |
| | LU14 | ZBDLU14 | 0.014 |
| | 8D1 | ZBD8D1 | 0.014 |

For booted selector switches

| | | | |
|---|-------|-----------|---|
| Sets of 2 keys, one of which supplied booted (rubber boot) | 455 | ZBG455P | – |
| | 421E | ZBG421EP | – |
| | 458A | ZBG458AP | – |
| | 520E | ZBG520EP | – |
| | 3131A | ZBG3131AP | – |



ZBG 455P

Accessory for key switches (1)

| Description | Function | Reference | Weight kg |
|--------------------------------|---|-----------|--------------|
| Keyhole cover (rubber boot) | Protection of lock barrel when no key inserted in lock | ZBGP | 0.005 |

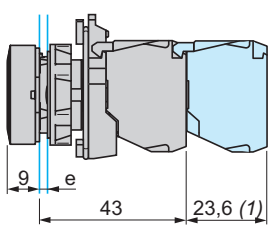
(1) Not compatible with products with key TEC10.

Harmony™ XB5 plastic 22 mm push buttons

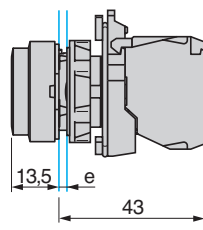
Push buttons, switches and pilot lights:
complete units, XB5A

Push buttons, spring return

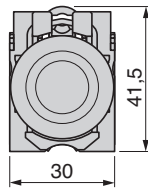
XB5AA●●



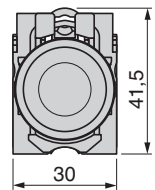
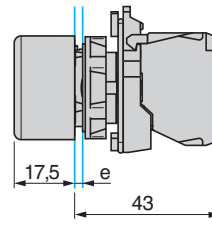
XB5AL●●



Common face view



XB5AP●●

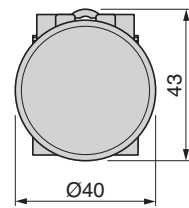
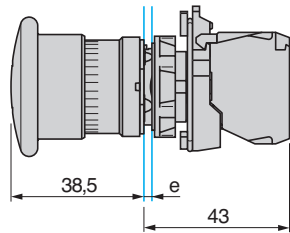


e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head push buttons, spring return

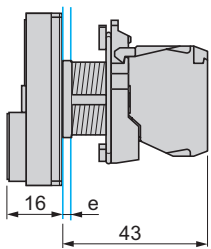
XB5AC21



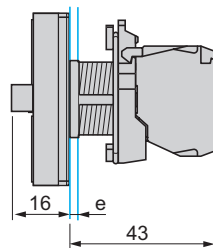
e: clamping thickness: 1 to 6 mm

Multiple-headed push buttons (double or triple), spring return

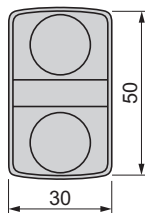
XB5AL73415, XB5AW73731●5



XB5AA731327, XB5AA711237



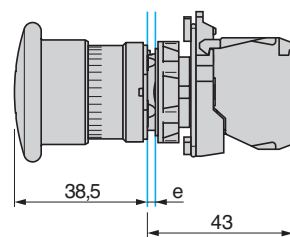
Common face view



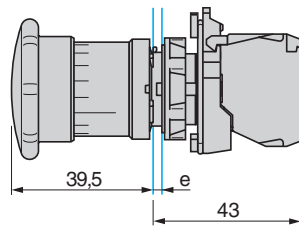
e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head push buttons, trigger action and mechanical latching

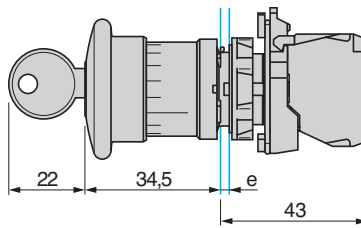
XB5AT845



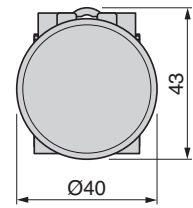
XB5AS8445



XB5AS9445



Common face view

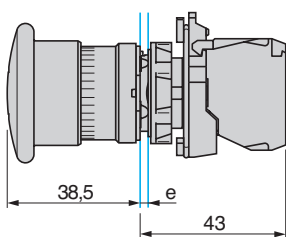


e: clamping thickness: 1 to 6 mm

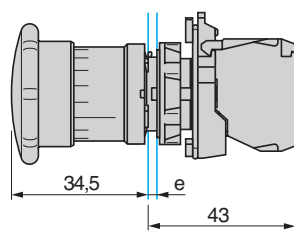
e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head push buttons, mechanical latching

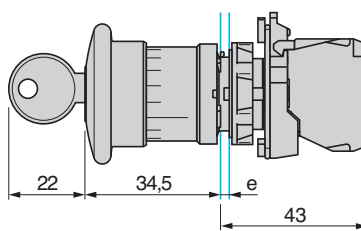
XB5AT42



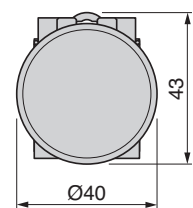
XB5AS542



XB5AS142



Common face view



e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

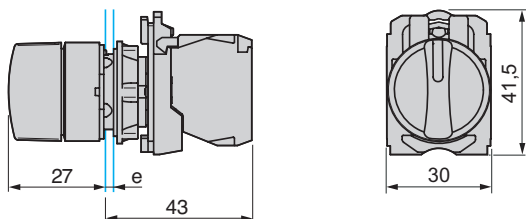
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB5A

Selector switches

Standard handle operator

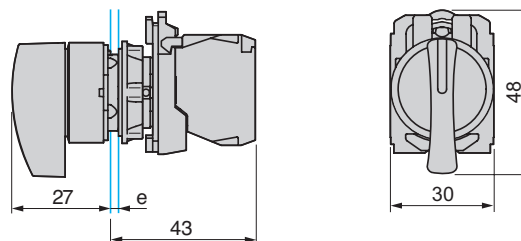
XB5AD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

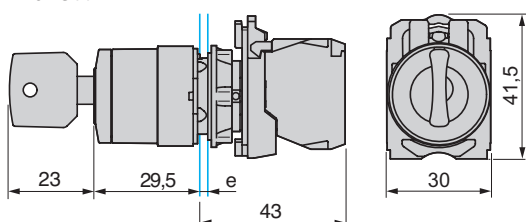
XB5AJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB5AG●●



e: clamping thickness: 1 to 6 mm

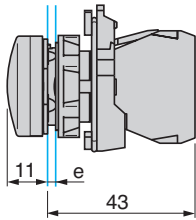
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
complete units, XB5A

Pilot lights

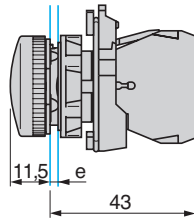
Integral LED

XB5AVB●, AVG●, AVM●



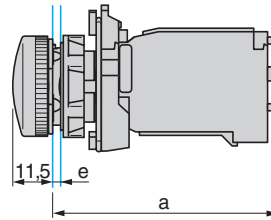
Direct supply

XB5AV6●

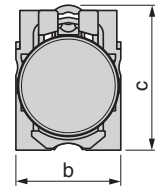


Via integral transformer

XB5AV3●, AV4●



Common face view



| | a | b | c |
|----------|------|----|------|
| XB5AV●● | 43 | 30 | 41.5 |
| XB5AV5B● | 89.6 | 40 | 45 |

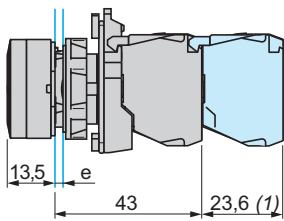
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated push buttons

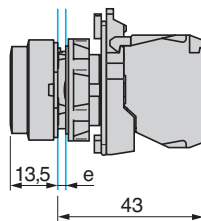
Integral LED

XB5AW3●●5



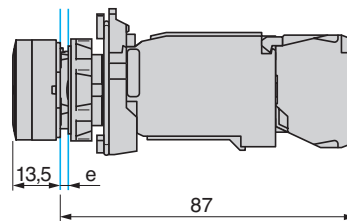
Direct supply

XB5AW3●65

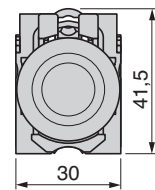


Via integral transformer

XB5AW3●●5



Common face view



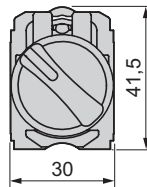
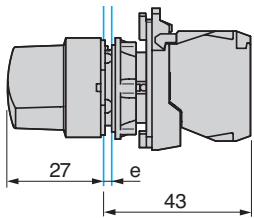
e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Illuminated selector switches

Integral LED

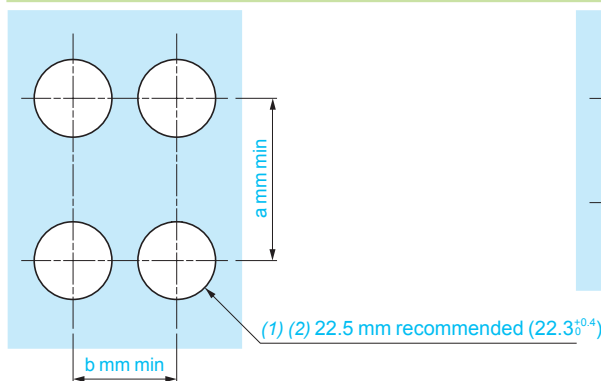
XB5AK12●●5



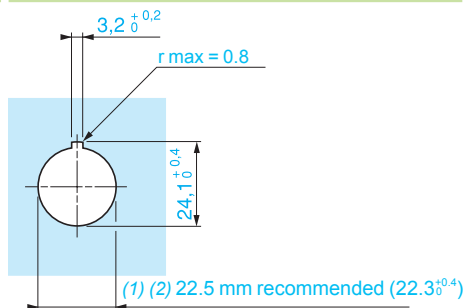
e: clamping thickness: 1 to 6 mm

Panel cut-out for push buttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors or on printed circuit board



Detail of lug recess



(1) Diameter on finished panel or support.
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended, see page 146.

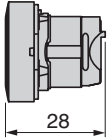
| Connections | a | b |
|---|----|----|
| By screw clamp terminals or plug-in connector | 40 | 30 |
| By Faston® connectors | 45 | 32 |
| On printed circuit board | 30 | 30 |

Harmony™ XB5 plastic 22 mm push buttons

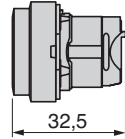
Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

Heads for spring return push buttons

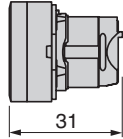
ZB5AA●, AA●●●, ZB5AA●8



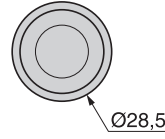
ZB5AL●, ZB5AL●●●



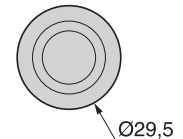
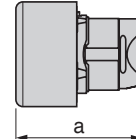
ZB5AA●4, ZB5AA●6



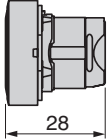
Common face view



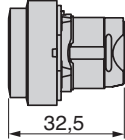
ZB5AP●●, ZB5AP●S, ZB5AP●83, ZB5AP●



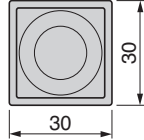
ZB5 CA●, ZB5 CA0



ZB5 CL●



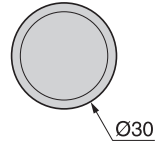
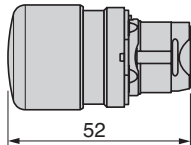
Common face view



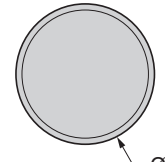
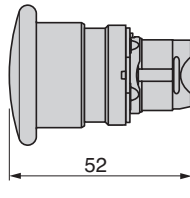
| ZB5 | a |
|-------|------|
| AP●● | 36.5 |
| AP●S | 33 |
| AP●83 | 32 |
| AP● | 35 |

Mushroom heads for spring return push buttons

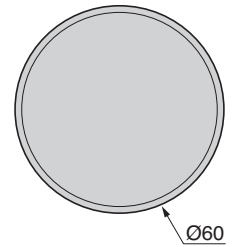
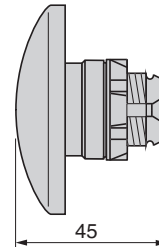
ZB5AC●4



ZB5AC●, AR●



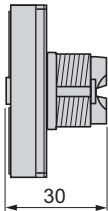
ZB5AR●16



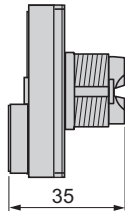
| ZB5 | Dia. (mm) |
|-----|-----------|
| AC● | 40 |
| AR● | 60 |

Heads for double-headed, spring return push buttons

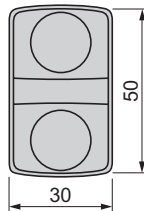
ZB5AA712●, ZB5AA734●, ZB5AA79



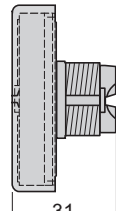
ZB5AL734●



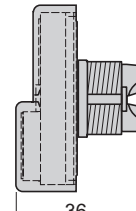
Common face view



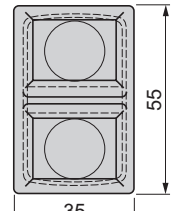
ZB5AA712●, ZB5AA734●, ZB5AA79, + boot ZBA 708



ZB5AL734● + boot ZBA710

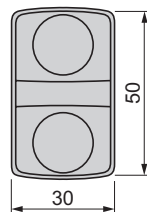
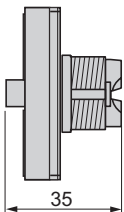


Common face view

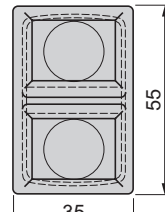
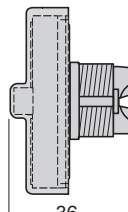


Heads for triple-headed, spring return push buttons

ZB5AA7313●, ZB5AA711●●, ZB5AA72124, ZB5AA791

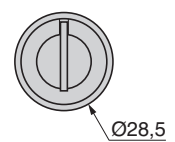
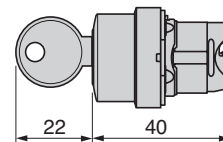


ZB5AA7313●, ZB5AA711●●, ZB5AA72124, ZB5AA791 + boot ZBA709



Heads for lockable, Push-turn push buttons

ZB5AFD



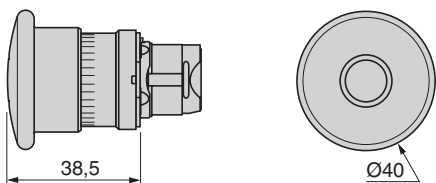
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

Mushroom heads for Emergency stop, trigger action and mechanical latching push buttons

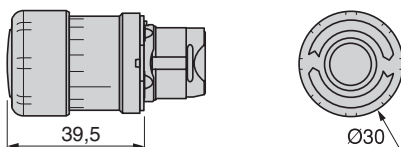
Push-pull

ZB5AT84

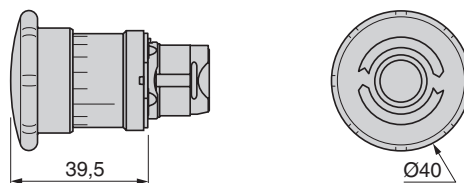


Turn to release

ZB5AS834

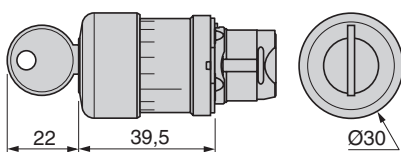


ZB5AS844

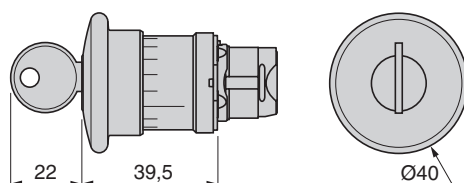


Key release

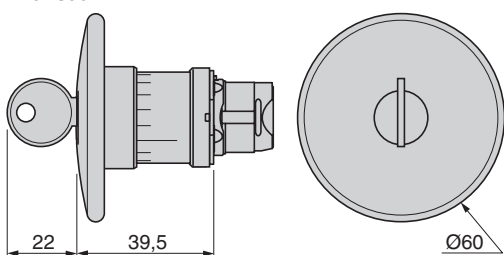
ZB5AS934



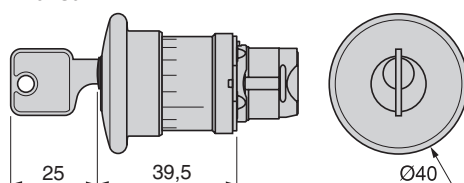
ZB5AS944



ZB5AS964



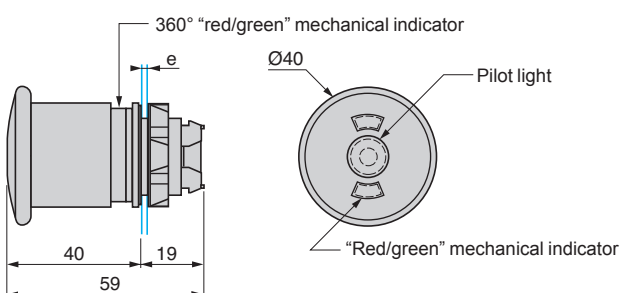
ZB5AS944D



Illuminated mushroom heads for Emergency stop, trigger action and mechanical latching push buttons

Push-pull with pilot light and mechanical state indicator

ZB5AT8643M



e: panel thickness 1 to 6 mm

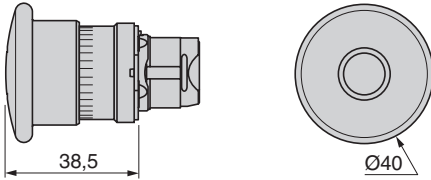
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

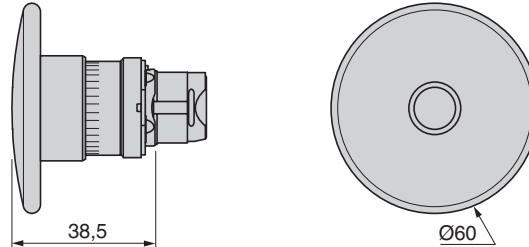
Mushroom heads for Emergency switching off, mechanical latching push buttons

Push-pull

ZB5AT4

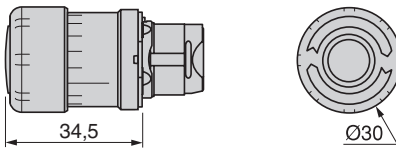


ZB5AX4

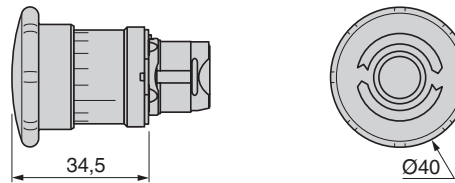


Turn to release

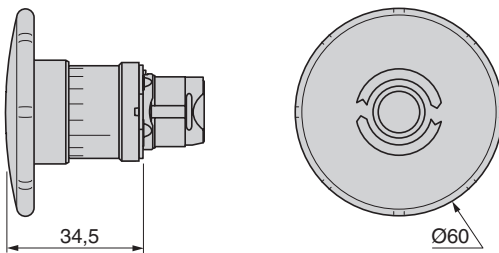
ZB5AS44



ZB5AS54

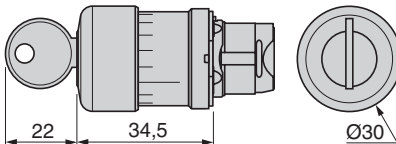


ZB5AS64

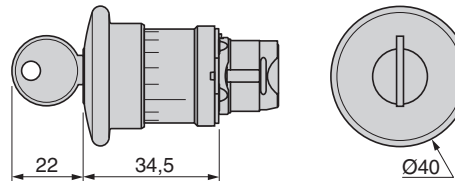


Key release

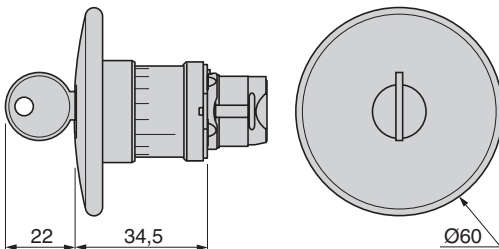
ZB5AS74



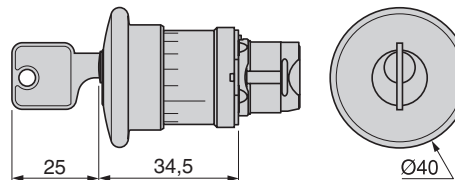
ZB5AS14



ZB5AS24



ZB5AS14D



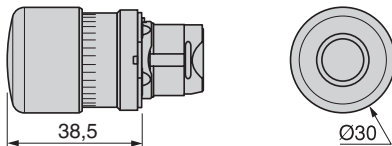
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

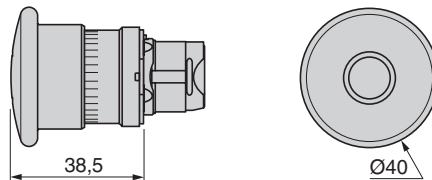
Mushroom heads for latching push buttons (1)

Push-pull

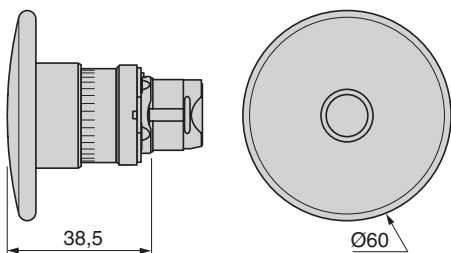
ZB5AT24



ZB5AT2

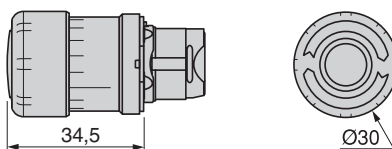


ZB5AX2

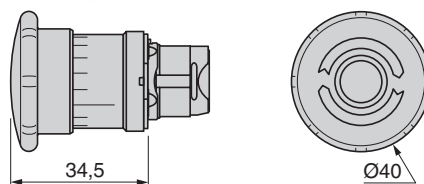


Turn to release

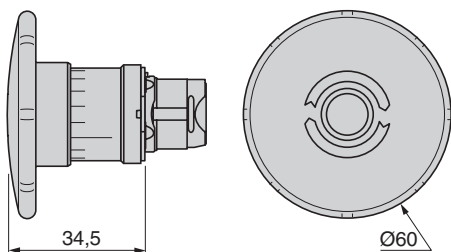
ZB5AS42



ZB5AS52, ZB5AS55

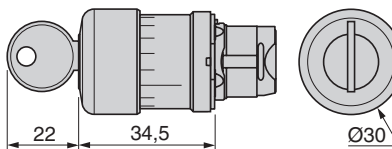


ZB5AS62

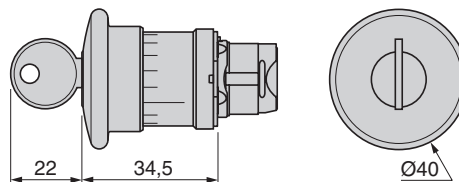


Key release

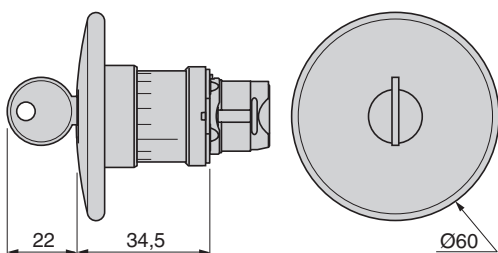
ZB5AS72



ZB5AS12



ZB5AS22



(1) Red mushroom heads for Emergency stop and Emergency switching off, latching push buttons: see pages 152 and 153.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

Heads for selector switches

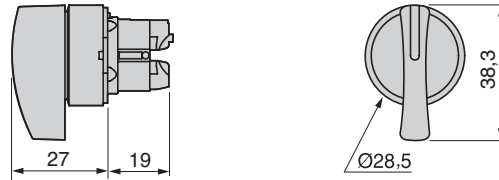
Standard handle operator

ZB5AD●, ZB5AD●M



Long handle operator

ZB5AJ●, ZB5AJ●M



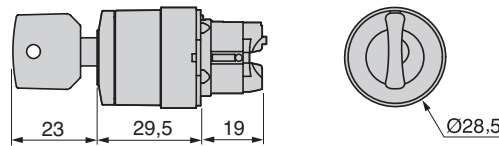
Black knurled knob

ZB5AD●9



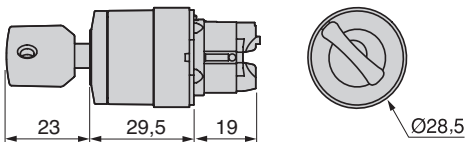
Key switch (Ronis no. 455)

ZB5AG●, ZB5AG0●, ZB5AG●M



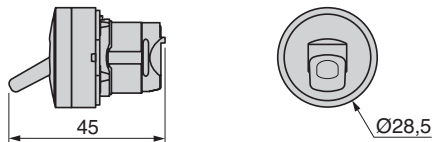
Key switch (DOM no. 8D1)

ZB5AGD



Heads for toggle switches

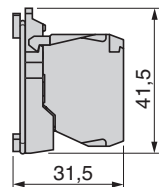
ZB5AD●8



Bodies for push buttons and switches

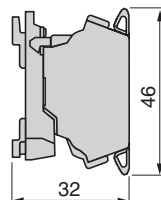
Screw clamp terminal connections

ZB5AZ10●, ZB5AZ141



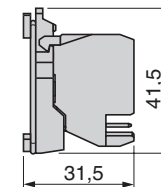
Spring terminal connections

ZB5AZ10●5



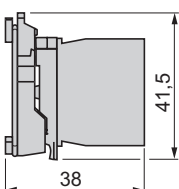
Plug-in connector

ZB5AZ10●4, ZB5AZ1414



High power switching with screw clamp terminal connections

ZBE 50● block + ZB5AZ009 body



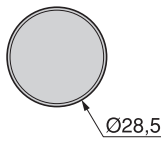
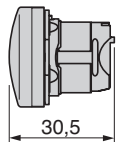
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A and ZBV

Heads for pilot lights, with light source

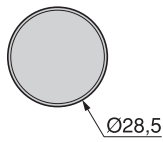
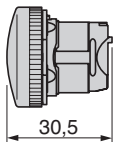
Integral LED

ZB5AV0●3

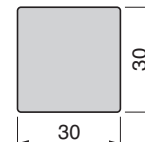
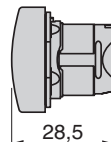


Incandescent, neon or LED

ZB5AV0●, AV0●S



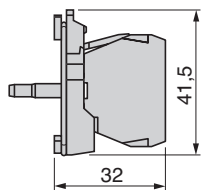
ZB5 CV0●3, CH3●3



Bodies for pilot lights, screw clamp terminal connections

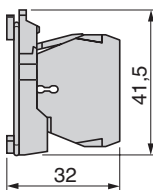
Integral LED

ZB5AV●●



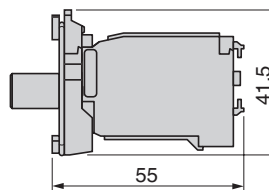
Direct supply, for BA 9s bulb

ZB5AV6



With integral transformer, for BA9s bulb

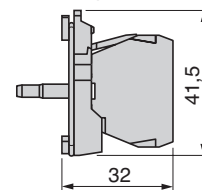
ZB5AV●, AV●D●



Light block + body/mounting collar for pilot lights, plug-in connector

Integral LED

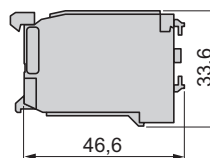
ZBV●●4 light block + ZB5AZ009 body/mounting collar



Transformer blocks

For 24 V light blocks with integral LED

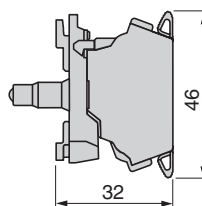
ZBV 5B, ZBV 8B, ZBV 9B



Light block + body/mounting collar for pilot lights, spring terminal connections

Integral LED

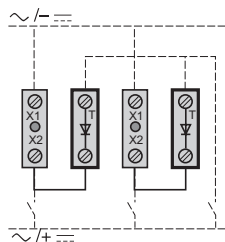
ZBV●●5 light block + ZB5AZ009 body/mounting collar



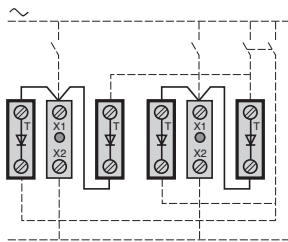
Blocks for "remote test light" function

Connections

ZBZG156



ZBZM156



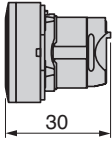
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
sub-assemblies, ZB5A

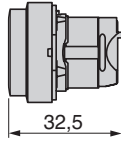
Heads for spring return illuminated push buttons, for light source types:

LED

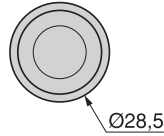
ZB5AW3●3, AW3●3S,
ZB5AA●8



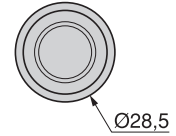
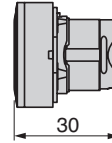
ZB5AW1●3, ZB5AW1●3S,
ZB5AL●8



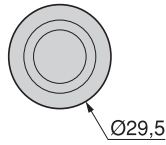
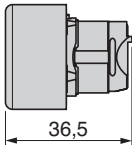
Common face view



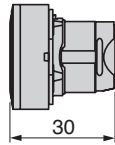
ZB5AW9●3



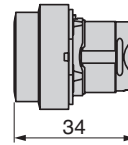
ZB5AW5●3



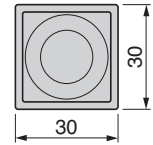
ZB5 CW3●3



ZB5 CW1●3

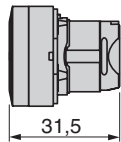


Common face view

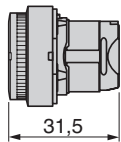


Bulb with BA9s base fitting

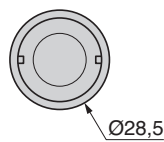
ZB5AW3●, AW3●S



ZB5AW1●, ZB5AW1●S

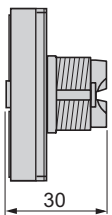


Common face view

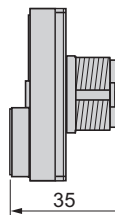


Heads for double-headed push buttons + pilot light

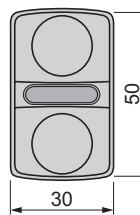
ZB5AW7A374●, ZB5AW7A17●●, ZB5AW7A9



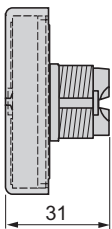
ZB5AW7L374●



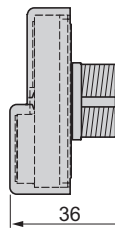
Common face view



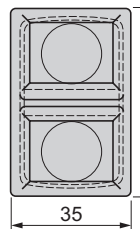
ZB5AW7A374●, ZB5AW7A17●●, ZB5AW7A9
+ boot ZBA 708



ZB5AW7L374●
+ boot ZBA 710

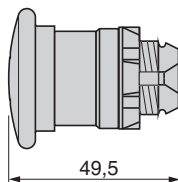
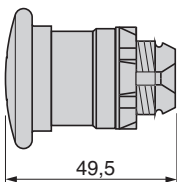


Common face view



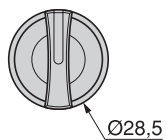
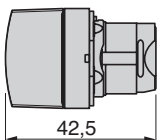
Heads for illuminated, latching, mushroom head push buttons

ZB5AW7●3



Heads for illuminated selector switches with standard handle

ZB5AK1●●●3



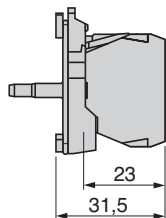
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights:
complete units or sub-assemblies

Bodies for illuminated push buttons and selector switches, screw clamp terminal connections

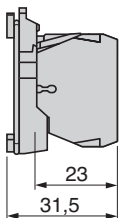
Integral LED

ZB5AW0●●●



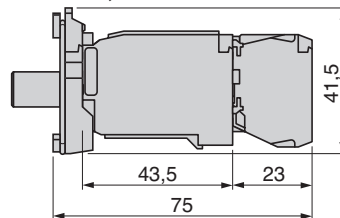
Direct supply for BA9s bulb

ZB5AW06●



With integral transformer for BA9s bulb

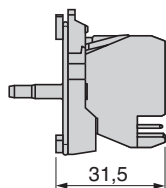
ZB5AW0●●, ZB5AW0●D●●



Bodies for illuminated push buttons and selector switches, plug-in connector

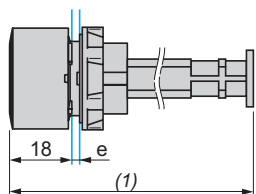
Integral LED

ZB5AW0●●●4



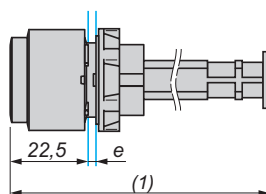
Manual overload reset buttons

XB5A8●●●



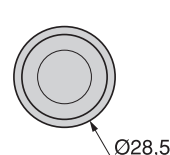
e: panel thickness 1 to 6 mm

XB5AL8●●●



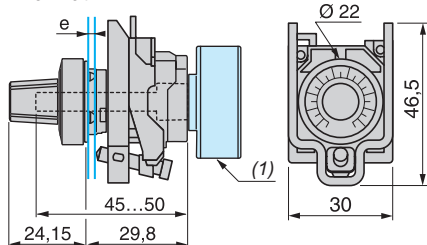
(1) Value not yet communicated

Common face view



Head + mounting base for potentiometer

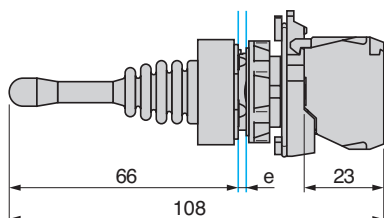
ZB5AD9●2



(1) Potentiometer not included.

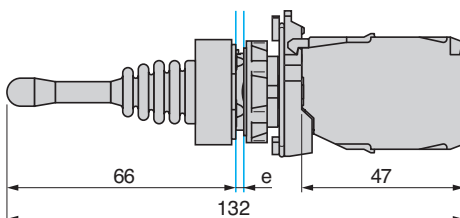
Joystick controllers

XD5 PA●2

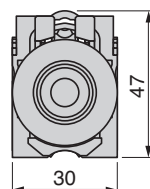


e: panel thickness 1 to 6 mm

XD5 PA●4

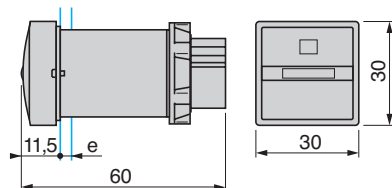


Common face view



Hour counters

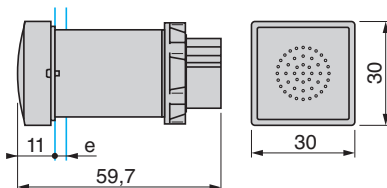
XB5 DS●



e: panel thickness 1 to 6 mm

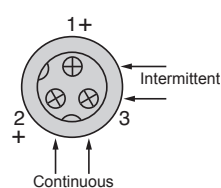
Annunciators

XB5 KS●



Cabling

XB5 KS●



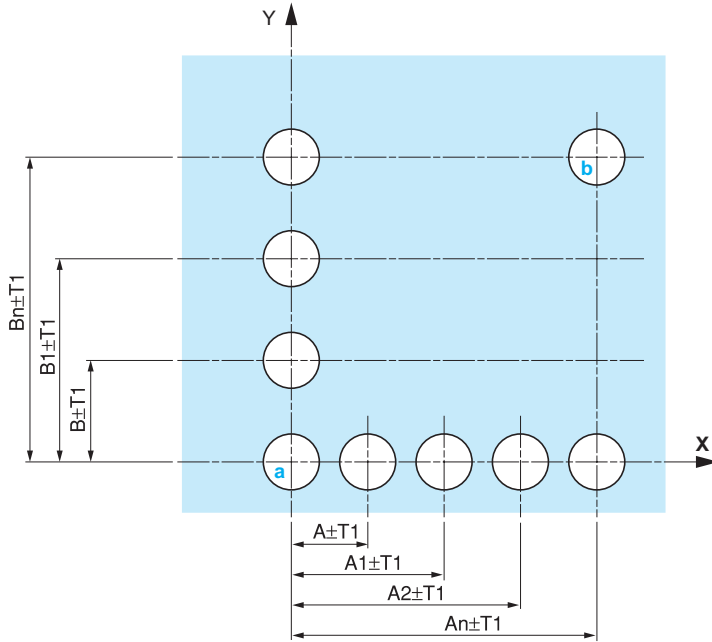
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights
for printed circuit board connection

Push buttons, switches and pilot lights for printed circuit board connection

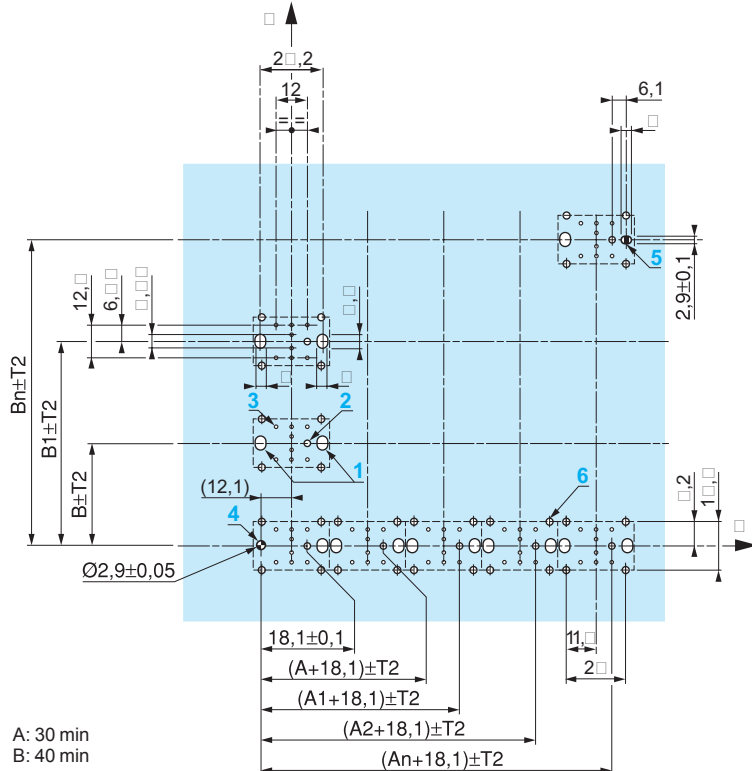
Panel cut-outs (viewed from installer's side)

Dimensions in mm



Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



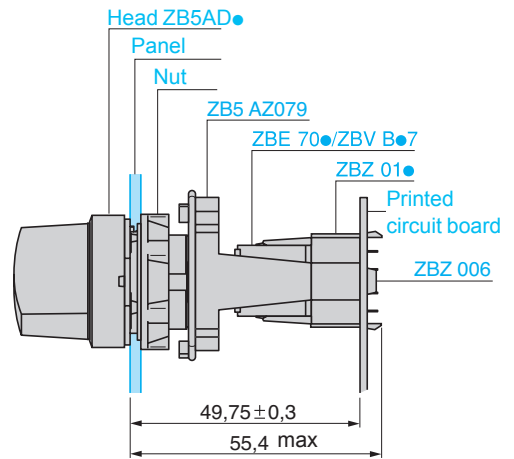
General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm: T1 + T2= 0.3 mm max.

■ Installation information:

- Minimum thickness of circuit board: 1.6 mm.
- Cut-out diameter: 22.4 mm ± 0.1 mm.
- Orientation of body/mounting collar ZB5 BZ079: ± 2° 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m. max.
- Allow for one ZB5BZ079 mounting collar/pillar and its mounting screws:
 - every 90 mm horizontally (X), and 120 mm vertically (Y),
 - with each selector switch head (ZB5AD●, ZB5AJ●, ZB5AG●).

The mounting centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.

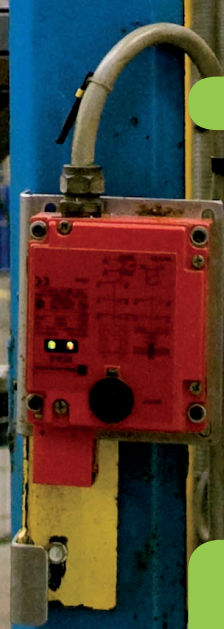


Mounting of adapter (socket) ZBZ01●:

- 1 2 elongated holes for ZBZ006 screw access.
- 2 1 hole 2.4 mm ± 0.05 for centering adapter ZBZ01●.
- 3 8 x 1.2 mm holes.
- 4 1 hole 2.9 mm ± 0.05, for aligning the printed circuit board (with cut-out marked **a**).
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).
- 6 4 holes 2.4 mm for clipping in adapter ZBZ01●.

Dimensions An + 18.1 relate to the 2.4 mm ± 0.05 holes for centering adapter ZBZ01●.

Harmony™ XB5S Biometric Switch



Improving the security of your daily operations...

The Harmony™ XB5S Biometric Switch is an innovative security solution that uses fingerprint authentication technology to control access to your machines, vehicles, processes, and work areas. Its database of authorized users can be managed directly on the device, or externally via a PC or HMI. The Harmony XB5S enables you to determine an individual's level of access to specific work areas and HMI menu tabs.



Quick and reliable access verification...

With its fingerprint recognition technology, the [Harmony XB5S Biometric Switch](#) is a superior alternative to other access control systems that provide marginal levels of protection for your process functions and personnel.

Simple and efficient...

The Harmony XB5S enables you to restrict access to sensitive zones and machine functions – starting, adjustment, maintenance – to authorized personnel only.



Mitigates the risk of unauthorized use and associated downtime...

The Harmony XB5S biometric switch is an automated solution that ensures that only authorized persons have access to your key process areas...

...allowing you to prevent unwarranted machine use, and to protect your staff, equipment, and the continuity of your production process.



Your fingerprint is a unique access controller!

Fingerprint recognition technology is one of the fastest and most accurate ways of verifying access rights.

Control access to your critical assets and areas...



Protect your specific processes...

With Harmony™ XB5S, you can **identify**, **authorize** and **track** user operations on HMIs.



Safeguard your automation line...

With Harmony XB5S, you can **improve security** of your automated lines and tool machines.



Restrict access to your technology...

With Harmony XB5S, you can **control** access to **restricted areas**.



Limit the unauthorized operation of specific equipment...

With Harmony XB5S, you can prevent unwarranted access to the **start function** of special **vehicles**.

Rely on flexible and secure user permissions management...

Simple to manage with:

Harmony™ XB5S1/2

- Parameterizes and records directly on the front face of the device using LED signalling

Harmony XB5S3/4/5

- Provides visualization, saving and duplication of the authorized user database via HMI or PC, and dedicated software
- Add and delete user permissions easily
- Data transfer is secured by administrator approval
- Database is encrypted to prevent unwarranted use of personal data



Managed with
Vijeo™ Designer™
and Harmony
XB5S Software

Harmony XB5S product range

Stand-alone product:
Harmony XB5S1/2

Configured by PC:
Harmony XB5S3/4

Configured by HMI:
Harmony XB5S5



Improve control of access to equipment and restricted areas.

Manage embedded database of authorized users directly on the switch.

Restrict use of special machines and vehicles.

Manage user database via a PC interface.

Define different profiles of authorized users on HMIs to enhance security control.

Manage user database easily via HMI. Track and store access data of recorded users.

< 1 second
to authenticate
an operator and
authorize or
refuse access

| | |
|-------------------------|--|
| Applications | Simple access control for indoor industrial restricted areas |
| Type of products | Stand-alone biometric switch |



| | |
|---|--|
| Functions | <ul style="list-style-type: none"> ■ 1 level of authorization ■ Authorizes user through fingerprint recognition |
| Static Output | <ul style="list-style-type: none"> ■ Maintained output, machine operation at 2 fixed states ■ Momentary output, machine operation at pulse control |
| Power | 24 Vdc |
| Connection | <ul style="list-style-type: none"> ■ Pre-wired 3 wire cable (2 m/6.56 ft long) or ■ M12 connector |
| Memory capacity | <ul style="list-style-type: none"> ■ 200 records of fingerprints ■ 100 authorized users with each registering 2 fingerprints or 200 authorized users with each registering 1 fingerprint |
| Communication | No communication |
| Database management software tools | None |
| User database update | Stand-alone as updates are done directly on the biometric switch |
| Associated accessories | <ul style="list-style-type: none"> ■ Translucent protective cover ■ Mounting nut ■ Legend plate |
| Type references | XB5S1, XB5S2 |

(1) Compatible with Magelis™ iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH and GTO models .

(2) Compatible with all versions of Harmony™ XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com.

| | |
|---|---|
| <ul style="list-style-type: none"> Secure the control of automated lines and tool machines Protect the start function of special vehicles | <ul style="list-style-type: none"> Identify and authorize the user for HMI operations Trace the HMI operations of each user |
| Stand-alone USB biometric switch | USB biometric switch dedicated to Schneider HMI (1) |



| | |
|--|--|
| <ul style="list-style-type: none"> 1 level of authorization Authorizes user through fingerprint recognition | <ul style="list-style-type: none"> Provides access to HMI pages based on the user profile Several levels of authorization associated with HMI Traceability of users and operations by HMI |
| <ul style="list-style-type: none"> Maintained output, machine operation at 2 fixed states Momentary output, machine operation at pulse control | None |
| 24 Vdc | 24 Vdc |
| <ul style="list-style-type: none"> Pre-wired 3 wire cable (2 m/6.56 ft long) or M12 connector | Pre-wired 2 wire cable (2 m/6.56 ft long) |
| <ul style="list-style-type: none"> 400 records of fingerprints 200 authorized users with each registering 1 or 2 fingerprints | <ul style="list-style-type: none"> 400 records of fingerprints 200 authorized users with each registering 2 fingerprints |
| Connects with a PC via the USB port for database management when required | Connects with a HMI via the USB port permanently |
| With Harmony™ XB5SSoft (2) on a PC | With Vijeo™ Designer™ (3) and Harmony XB5SSoft (2) |
| <ul style="list-style-type: none"> Should be connected to a PC Download the new user database to the biometric switch from Harmony XB5SSoft application (4) | <ul style="list-style-type: none"> With Vijeo Designer in Run time on HMI (4) With Vijeo Designer in Build time on PC (4) |
| <ul style="list-style-type: none"> Translucent protective cover Mounting nut Legend plate Female/Female USB extension cable with a female USB port of Ø 22 mm/0.866 in. on one end for panel mount | <ul style="list-style-type: none"> Translucent protective cover Mounting nut Legend plate |
| XB5S3, XB5S4 | XB5S5 |

(3) Compatible with Vijeo™ Designer™ HMI editor software V6.1, Service pack 2.

(4) The user database cannot be uploaded from biometric switch to the PC.



Stand-alone biometric switch (XB5S1/XB5S2)



Stand-alone USB biometric switch (XB5S3/XB5S4)



USB biometric switch dedicated to Schneider HMI (XB5S5)

Introduction

Harmony™ XB5S Biometric Switches are designed to control and secure access to systems and machines by checking a user's authorization, via fingerprint recognition technology.

The following types of biometric switches are available:

Stand-alone biometric switches

- type XB5S1, with 2 fixed states (maintained)
- type XB5S2, with pulse control (momentary)

Stand-alone USB biometric switches

- type XB5S3, with 2 fixed states (maintained)
- type XB5S4, with pulse control (momentary)

USB biometric switches dedicated to Schneider Electric HMI

- type XB5S5, connected permanently with HMI

The two types of users of the XB5S are:

Administrators, who decide and manage the list of users

- the only people who can record the fingerprints in the device memory
- Users, who are authorized to use the biometric switch as a control unit
- at least 1 of their fingerprints should be recorded in the device memory
- access is granted when the finger is placed on the sensing screen

The USB switches communicate with the PC/HMI via the USB port to manage the user database. This database can be visualized, saved, and duplicated by PC/HMI with XB5SSoft application (1) (2). The fingerprint records can also be erased in the absence of users.

The Schneider Electric HMI (3) with Vijeo™ Designer™ software (4) enables the switches to authorize different access levels and trace HMI operations of each user.

The switch operates on 24 Vdc and provides protection against:

- Reverse polarity
- Overload and short-circuit (switching capacity ≤ 200 mA)

Mounting

The product is of monolithic design (a single plastic housing) and is mounted by means of a nut (hand-tightened without need for tools) in a standard 22.5 mm/0.886 in. diameter hole. It can be installed on a flat, horizontal, or vertical surface.

A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is mounted using a self-adhesive hinge.

A female/female USB extension cable makes it possible for the USB biometric switch to have the female USB port within a 22 mm/0.866 in. diameter hole on the control panel front.

Environment

Conformity to standards: UL, CSA, GOST, and CE.

Product certifications:

- CSA C22-2 n° 14
- UL 508
- IEC 61000-6-2 and IEC 61000-6-4

Degree of protection conforming to standard IEC 60529:

- IP 65
- UL Type 12, NEMA 12

Ambient air temperature:

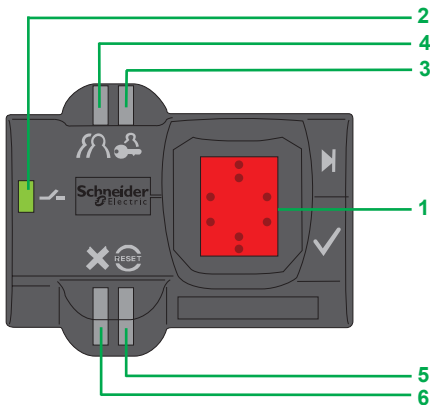
- For storage: - 25 to + 70 °C
- For operation: - 5 to + 50 °C

(1) Compatible with all versions of Harmony XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com.

(2) The user database cannot be uploaded from USB biometric switch to the PC.

(3) Compatible with Magelis™ iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models.

(4) Compatible with Vijeo Designer HMI editor software V6.1, Service pack 2.



XB5S1B●●●●



XB5S3B●●●●



XB5SFFUSBEXT



ZB5SZ70

Description

The stand-alone biometric switch (XB5S1/XB5S2) consists of a dark gray housing, with the following on its front face:

- Sensing screen **1** that allows the registration and subsequent recognition of registered fingerprints,
- Green LED output state indicator **2** that illuminates when the output is activated (solid-state NO contact),
- Orange LED **3**, indicating an administrator's "Registration" mode,
- Orange LED **4**, indicating an operator's "Registration" mode,
- Red "RESET" LED **5** which indicates, in "Delete" mode, that the administrator is deleting all or part of the memory,
- Red LED **6** which flashes when the reader is presented with an "unrecognized" fingerprint or in the event of incorrect operation.

The stand-alone USB biometric switch (XB5S3/XB5S4) consists of a dark gray housing with a sensing screen **1** for fingerprints, a green LED **2** for indicating the output state, and a red LED **6** for the unrecognized fingerprint on its front face.

The USB biometric switch dedicated to Schneider Electric HMI (XB5S5) consists of a dark gray housing with a sensing screen **1** for fingerprints on its front face.

References

Complete units

| Description | Connection | Reference | Weight kg/lb |
|--|----------------------|-------------------|-----------------|
| Maintained biometric switch 24 Vdc PNP output | By 2 m/6.56 ft cable | XB5S1B2L2 | 0.170/0.375 |
| | By M12 connector | XB5S1B2M12 | 0.183/0.403 |
| Momentary biometric switch 24 Vdc PNP output | By 2 m/6.56 ft cable | XB5S2B2L2 | 0.170/0.375 |
| | By M12 connector | XB5S2B2M12 | 0.183/0.403 |
| Maintained USB biometric switch 24 Vdc PNP output | By 2 m/6.56 ft cable | XB5S3B2L2 | 0.202/0.445 |
| | By M12 connector | XB5S3B2M12 | 0.215/0.474 |
| Momentary USB biometric switch 24 Vdc PNP output | By 2 m/6.56 ft cable | XB5S4B2L2 | 0.202/0.445 |
| | By M12 connector | XB5S4B2M12 | 0.215/0.474 |
| USB biometric switch dedicated to Schneider Electric HMI 24 Vdc | By 2 m/6.56 ft cable | XB5S5B2L2 | 0.202/0.445 |

Accessories

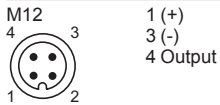
| Description | Function | Reference | Weight kg/lb |
|--|--|---------------------|-----------------|
| Female/female USB extension cable with Ø 22 mm/0.866 in. female USB port on one end | For connecting biometric switch to the PC via the Ø 22 mm/0.866 in. hole on the control panel front | XB5SFFUSBEXT | 0.108/0.238 |
| Protective cover, translucent and self-adhesive | Protection of sensing screen | ZB5SZ70 | 0.020/0.044 |
| Mounting nut Ø 22 mm/0.866 in. | Spare part | ZB5SZ71 | 0.030/0.066 |
| Legend plate, 27 x 8 mm/ 1.06 x 0.32 in., self-adhesive, blank, black background, for engraving | — | ZBY0101T | 0.005/0.011 |

Specifications

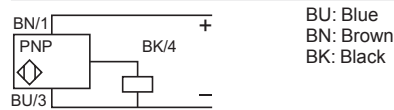
| Biometric switch type | | XB5S1B●●●●, XB5S2B●●●●, XB5S3B●●●●, XB5S4B●●●●, and XB5S5B●●●● | |
|-----------------------------------|---|--|--------------|
| Product certifications | | UL, CSA, CE, IEC 61000-6-2 / IEC 61000-6-4 | |
| Degree of protection | Conforming to EN/IEC 60529 | IP 65, UL Type 12, NEMA 12 | |
| Ambient air temperature | Storage | °C | - 25 to + 70 |
| | Operation | °C | - 5 to + 50 |
| Vibration resistance | Conforming to IEC 60068-2-6 | 1 gn, 9 to 500 Hz, Amplitude 3 mm, 5 to 9 Hz | |
| Electric shock resistance | Conforming to IEC 60068-2-27 | 50 gn, duration 11 ms | |
| Connection method | Cable | Length: 2 m, 3-wire, pre-wired | |
| | Connector | M12 | |
| Materials | Housing | Polyamide PA66 | |
| | Cable | PvR 3 x 0.34 mm ² | |
| Memory capacity | 200 records (100 users, operators or administrators, each registering 2 fingerprints) | | |
| Output state indicator | Green LED | | |
| Short-circuit protection | By gG fuse, 250 mA | | |
| Rated supply voltage | Vdc | 24 with protection against reverse polarity | |
| Voltage limits (including ripple) | Vdc | 20 to 30 | |
| Switching capacity | mA | ≤ 200 with protection against overloads and short-circuits | |
| Residual voltage, closed state | V | ≤ 1 | |
| No-load current consumption | mA | ≤ 50 | |
| Delays | First-up | s | < 2 |
| | Response time | s | < 1 |
| | Recovery time | s | < 1 |

Connections

Connector

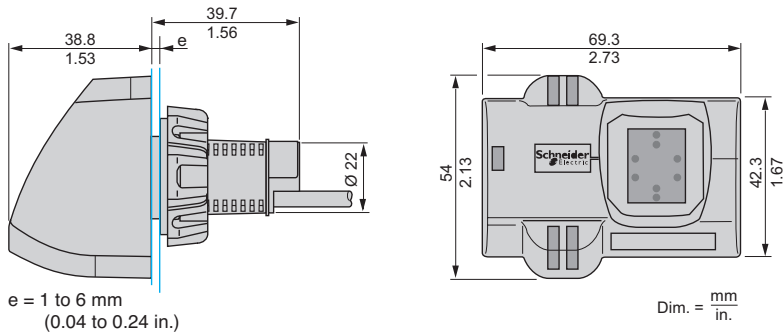


Cable with PNP output

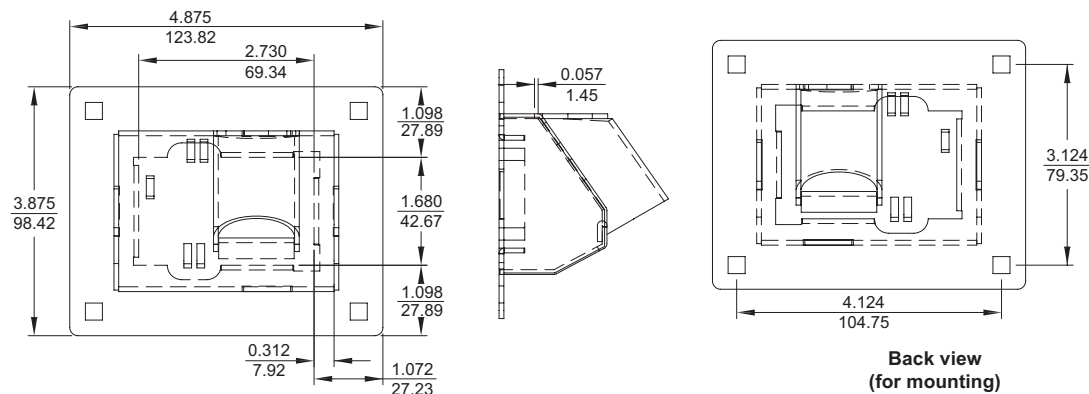


Dimensions

XB5 Biometric Switch



Stainless-Steel Cover








Harmony™ XB5R plastic and XB4R metal wireless, batteryless push buttons

 It all adds up to the Simple Solution
for your advanced Push Button
requirements.



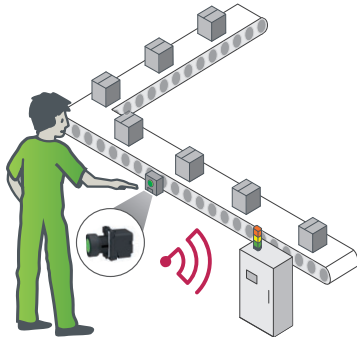
Reduce installation time with Harmony™ wireless, batteryless XB5R and XB4R push buttons

By totally eliminating cabling and components between the push button and the electrical cabinet, you save installation time, and reduce your installation costs.

-  **Simplified machine cabling**
with completely wireless push buttons
-  **Easier integration through open protocols**
by serial link Modbus™ and Ethernet Modbus/TCP
-  **Architecture solutions**
for integration into industrial and building environments

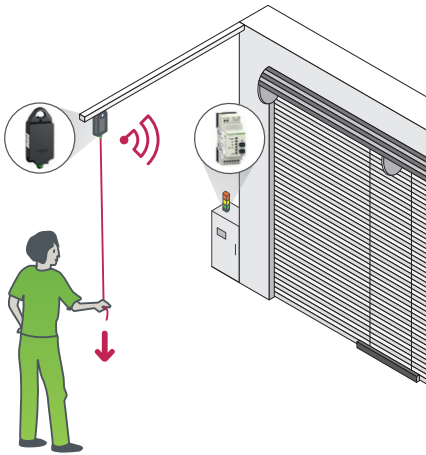


Simplified cabling +



Installing a new hard-wired push button quickly on your conveyor system can be challenging.

You have to take many factors into account: (a) the length of cable and connections to the push button, (b) the cabling and connections in the cabinet, and (c) the time required for fitting the cables in covers or existing cable ducting.



Using the new Harmony™ wireless, batteryless XB5R and XB4R push buttons, or ZBRP1 rope pull switch, the only cabling required is for the receiver in the cabinet.

Proven reliability

- Continuous availability of control function
- Reduced maintenance with no battery to replace, recharge or recycle
- Energy-efficient, thanks to a non-current consuming transmitter

Robust functionality

- High resistance to contamination from dust (no cable entry)
- No risk of cable damage or loosened screws on the transmitter
- Proven quality and high performance of the Harmony product range



no battery to replace

Economical and flexible

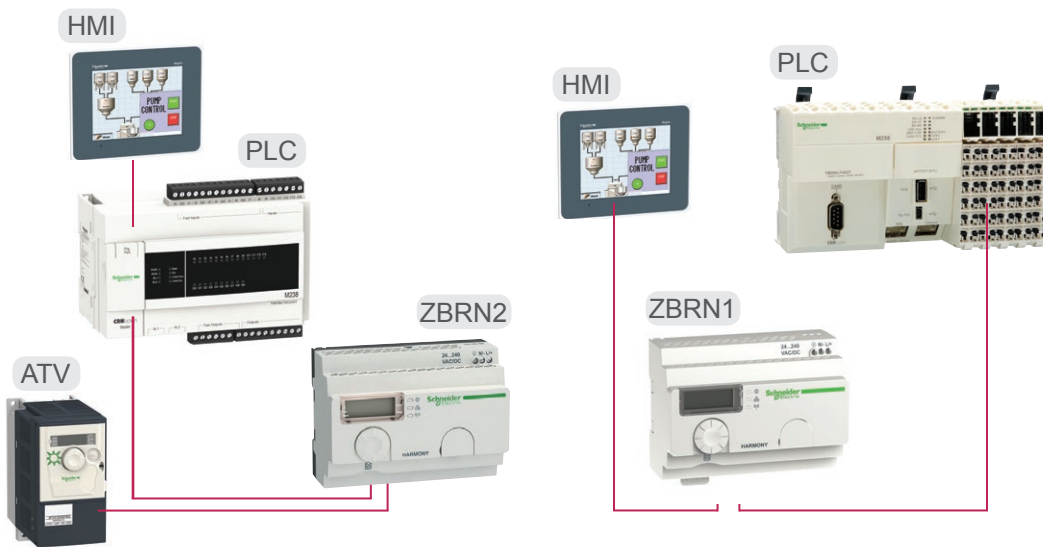
- Reduction in installation costs and time
- No configuration required, thanks to ready-to-use packs
- Freedom of movement
- Ideal solution when you need to add or move a control function

20% less installation costs compared to a hard-wired solution

Easy integration and open protocols

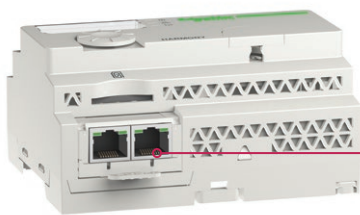
Integration into industrial automation systems via a field bus link

- Modbus™ serial link: found on all Schneider Electric PLCs
- Modbus/TCP: integrated into the latest models of Schneider Electric PLCs and HMIs



2
Open standard protocols

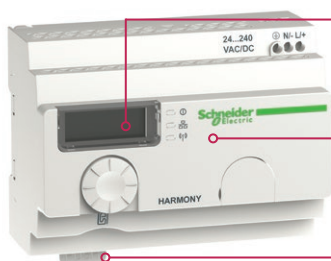
Simple and economical



Double RJ45 port enables network continuity without using hubs or switches

Up to **60**
transmitters
connected on the
same bus

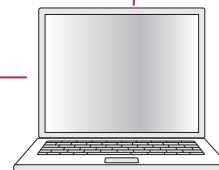
Easy set up



Manual parameter interface

DTM interface and web pages with PC

SD card + csv files with PC



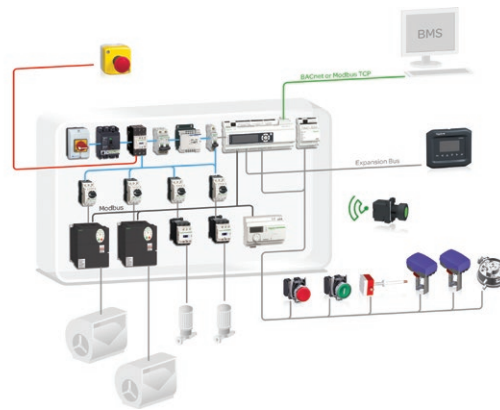
3
setting modes

Solutions architecture

Harmony™ XB5R and XB4R Push Buttons are designed to easily integrate into MachineStruxure™ architectures for OEM machine builders and into PlantStruxure™ architectures for process environments.



Examples of architectures – Machine



Examples of architectures – HVAC

Industrial applications

Suitable for a wide range of industrial applications, including explosive atmospheres for dust and gas environments.



Building applications

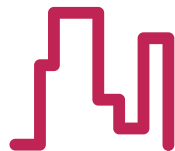
Compliant with DIN 43380 standard.



Packaging



Cement



Automatic doors



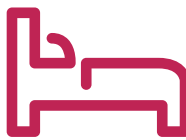
Hospital



Food & Beverage



Automotive



Hotel



Lighting

Comprehensive product range +

From individual products to ready-to-use packs

| | | | | |
|---|---|---|---|---|
| | | | | Ethernet Modbus™/ TCP Module |
| | | | | ZBRN1 |
| Push button | Rope pull switch | Mushroom head push button | Receiver | Ethernet Modbus serial module |
| ZB5RTA2 | ZBRP1 | ZB5RTC2 | ZBRRA | ZBRN2 |
|  |  |  |  |  |

Ready-to-use solution packs

- Designed to meet the requirements of most applications
- Simple to order with only one reference number
- Easy to install with factory pre-programmed transmitter and receiver

| | | | |
|---|---|---|--|
| Only 1 transmitter per receiver | | Up to 32 transmitters per receiver | |
|   | Plastic head XB5RFB01 |   | Plastic head XB5RFA02 |
| | Metal head XB4RFB01 | | Metal head XB4RFA02 |
| <ul style="list-style-type: none"> • Transmitter with plastic or metal push button • Non-programmable receiver, 1 relay output | <ul style="list-style-type: none"> • Transmitter with plastic or metal push button • Set of 10 push button caps • Programmable receiver, 2 relay outputs | | |
|  | Plastic head XB5RMB03 |  | Plastic head XB5RMA04 |
| | <ul style="list-style-type: none"> • Transmitter with plastic push button ZB5R in ergonomic enclosure • Non-programmable receiver, 1 relay output | | <ul style="list-style-type: none"> • Transmitter with plastic push button ZB5R in ergonomic enclosure • Set of 10 push button caps • Programmable receiver, 2 relay outputs |

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

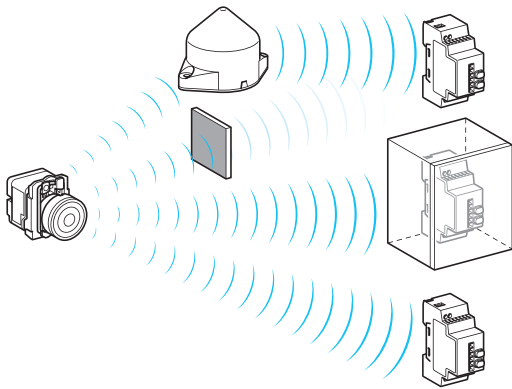


Figure A: radio transmission between 1 transmitter and 3 receivers

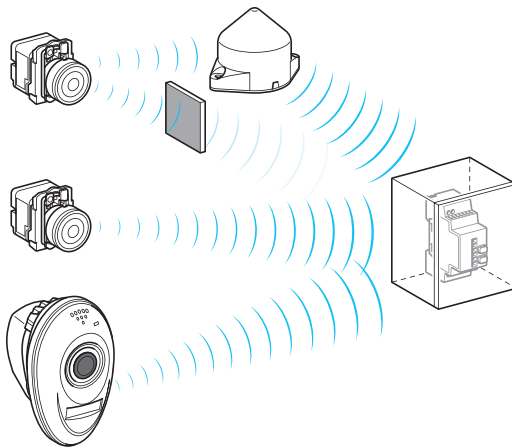


Figure B: radio transmission between 3 transmitters and 1 receiver

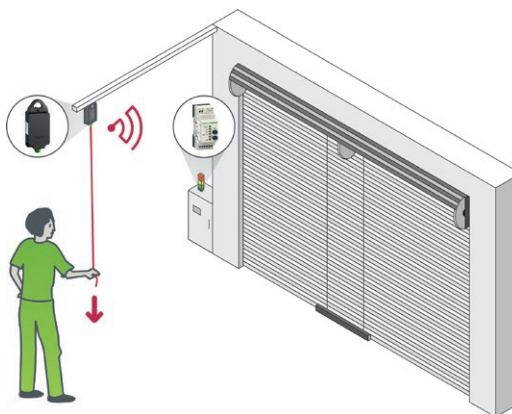


Figure C: rope pull switch for automatic doors

Introduction

The Harmony wireless, batteryless push button product range enables remote control of a relay (receiver) by means of a push button (transmitter). The control is by radio transmission, where the transmitter is fitted with a “dynamo” type generator that converts mechanical energy – produced when the push button is pressed – to electrical energy. A radio-encoded message with a unique ID code is sent as a single pulse to one or more receivers located several dozen metres away (see figure A). A single receiver can also be actuated by up to 32 different transmitters (see figure B).

Depending on the application, a relay-antenna can be used to “transmit around” an obstacle that impedes transmission, or to increase the range (see figures A and B).

The possible distance (1) between a transmitter and a receiver is approximately:

- 100 m/328 ft where there are no obstacles,
- 25 m/82 ft if the receiver is installed in a metal housing or in a closed metal enclosure,
- 300 m/984 ft if a relay-antenna is located between the transmitter and the receiver (receiver installed in a metal housing or in a closed metal enclosure).

The wireless, batteryless push button reduces installation time and costs, by eliminating wiring and associated equipment between the transmitters and the control panel.

This technology also allows an operator to be mobile or have a control mounted on-board a vehicle (trolley, truck). The push button is always available and requires no maintenance (no battery needed).

The mobile boxes ZBRM21 or ZBRM22 associated with its support function are adapted for static and mobile applications which will be mounted on vehicles.

The new wireless, batteryless ZBRP1 rope pull switch is designed for easy operation of automatic doors. This switch can be either mounted directly on the panel or between two ropes close to the automatic door. This enables the forklift driver or pedestrian to open or close the door by pulling the rope, where the mechanical energy produced is transmitted as a radio message to the receiver placed in the control panel (see figure C).

This technology (radio-encoded message sent as a single pulse) cannot be used for hoisting applications (“up/down”, “right-left” movements, etc) or safety applications (Emergency Stop push buttons). For these applications, it is recommended that Harmony XB4 and XB5 wired push buttons or the XAC range of pendant control stations be used.

Environment

The performance features of the XB5R range conform to the following specifications:

- International standards and approvals:
 - Wireless, batteryless push buttons: EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 N° 14
 - Transmitter/Receiver system: BT 2006/95/EC, CE: R&TTE 1999/5/EC, EMC 2004/108/EC
- International certifications: UL, CSA, C-Tick, GOST, CCC
- Radio agreements: ANATEL (Brazil), SRRC (China), FCC (USA), RSS (Canada), ICASA (South Africa), ARIB T66 (Japan)

For more technical information, please refer to our website www.schneider-electric.com.

(1) Typical values which can be affected by the application environment.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

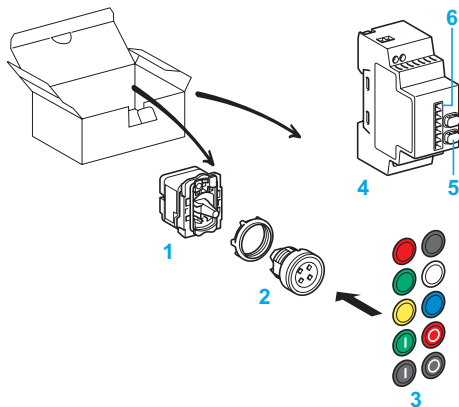


Figure D: pack with transmitter and programmable receiver

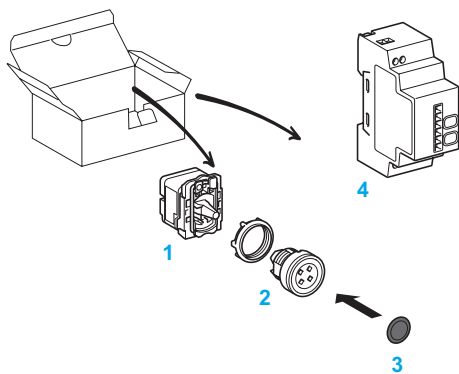


Figure E: pack with transmitter and non-programmable receiver

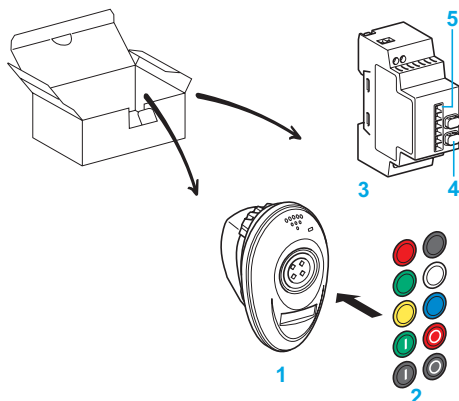


Figure F: pack with transmitter in handy box and programmable receiver

Description of “ready-to-use packs” product ranges (1)

Pack with Programmable receiver (see figure D)

The pack includes:

- 1 Transmitter with a mounting collar for assembly with a push button head and mounting in a $\varnothing 22 \text{ mm}/0.866 \text{ in.}$ hole.
- 2 Flush, spring return, plastic or metal push button head.
- 3 Set of 10 different colored caps, which can be clipped onto the push button head.
- 4 ≈ 24 to 240 V Programmable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 5 and 6 indicating LEDs 6.

Pack with Non-programmable receiver (see figure E) (1)

The pack includes:

- 1 Transmitter with a mounting collar for assembly with a push button head and mounting in a $\varnothing 22 \text{ mm}/0.866 \text{ in.}$ hole.
- 2 Flush, spring return, plastic or metal push button head.
- 3 Black cap that can be clipped onto the push button head.
- 4 ≈ 24 V Non-programmable receiver, 1 relay output, without indicating LED or button.

Pack with handy box and Programmable receiver (see figure F)

The pack includes:

- 1 Handy box containing a wireless, batteryless push button with plastic head.
- 2 Set of 10 different colored caps, which can be clipped onto the push button head.
- 3 ≈ 24 to 240 V Programmable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 4 and 6 indicating LEDs 5

(1) Wireless, batteryless push button and the receiver are pre-programmed.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

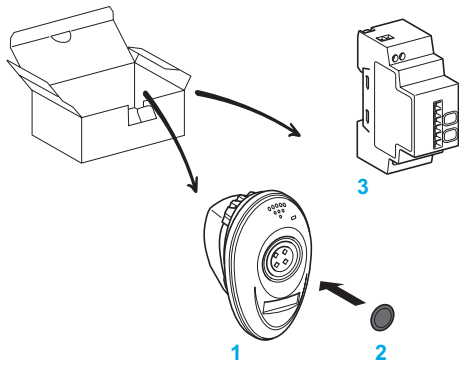


Figure G: pack with transmitter in handy box and non-programmable receiver

Description of “ready-to-use packs” product ranges (1) (continued)

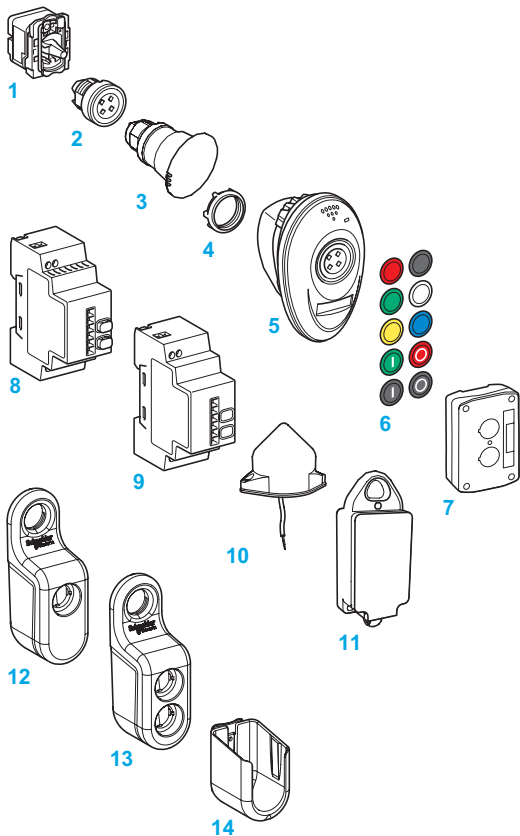
Pack with handy box and Non-programmable receiver (see figure G)

The pack includes:

- 1 Handy box containing a wireless, batteryless push button with plastic head.
- 2 Black cap that can be clipped onto the push button head.
- 3 ≡ 24 V Non-programmable receiver, 1 relay output, without indicating LED or button.

Description of the components

Components are sold separately to allow completion of existing applications or creation of specific applications:



- 1 Transmitter for assembly with push button head and mounting in a \varnothing 22 mm / 0.866 in. hole
- 2 Flush, spring return, push button head, metal or plastic version
- 3 Mushroom head, plastic version
- 4 Plastic or metal mounting collar
- 5 Empty handy box
- 6 Set of 10 different colored caps or set of 10 same color caps, that can be clipped onto the push button head
- 7 Empty plastic boxes (1 or 2 cut-outs) for wall mounting or on-board applications
- 8 ≡ 24 to 240 V Programmable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs
- 9 ≡ 24 V Programmable receiver, 4 PNP outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs
- 10 Relay-antenna
- 11 Rope pull switch
- 12 ZBRM21 mobile box for 1 push button
- 13 ZBRM22 mobile box for 2 push buttons
- 14 ZBRACS support for mobile box

(1) Wireless, batteryless push button and the receiver are pre-programmed.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of wireless, batteryless push buttons

Environment specifications

| | | | |
|--|-----------------------------------|----|--|
| Conforming to standards | Wireless, batteryless push button | | EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n°14 |
| | Transmitter/receiver system | | CE : R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC |
| | Radio frequency | | EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRC, EMC: EN301-489-1, EN301-489-3 SAR (Specific Absorption Rate) compliant. Power transmitted by the button < 3 mw |
| Product certifications and radio agreements | | | UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRC (China), CE (Europe) |
| Protective treatment standard version | | | "TH" |
| Ambient air temperature around the device | Storage | °C | - 40 to + 70 |
| | Operation | °C | - 25 to + 70 |
| Relative humidity permissible | Transmitter block | | + 95% RH at 70° C (without condensation) |
| Degree of protection | Conforming to IEC 60529 | | IP 65 (front face) IP 30 (back face) |
| | Conforming to UL / CSA | | Type 12 |
| | Conforming to IEC 50102 | | IK 03 |
| Free fall resistance | Conforming to IEC 60068-2-32 | mm | 1 000 |

Mechanical specifications

| | | | |
|--|--|----|---|
| Operating travel (when sending information) | Push button | mm | Total travel: 4.3 Instruction sent when wireless, batteryless push button clicks |
| Operating force | Spring return push button with its transmitter | N | < 25 |
| Mechanical durability (in millions of operating cycles) | Spring return push button with its transmitter | | 1 |
| Vibration resistance conforming to IEC 60068-2-6 | Frequency: 2 to 11Hz | mm | ± 10 |
| | Frequency: 11 to 500Hz | gn | 5 |
| Shock resistance conforming to IEC 60068-2-27 | Half sine wave acceleration 11 ms | gn | 50 |
| | Half sine wave acceleration 18 ms | gn | 30 |
| Repetitive shocks resistance | Conforming to IEC 60068-2-27 | gn | 25 (duration: 6 ms - 6 000 shocks) |
| Head tightening torque | Plastic head (nut) | | 2.2 N.m (± 0.2) / 9.5 lb.in (± 1.8) |
| | Metal head (base screw) | | 0.8 N.m (max 1.2) / 7.5 lb.in (max 10.6) |

Radio transmission specifications

| | | | |
|---------------------------|--|-----|---|
| Frequency | | GHz | 2.4 |
| Protocol | | | ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products) |
| Range | | m | Approx. 100 (transmitter and receiver in free space) |
| | | | Approx. 25 (transmitter in a plastic box type XALD and receiver in a metal enclosure) |
| | | | Approx. 40 (transmitter in plastic box type XALD, receiver in a metal enclosure and use of a relay-antenna) |
| Transmission power | | mW | 3 |
| Activation time | | ms | 2 |
| Transmission time | | ms | < 2 |
| Type | Conforming to EN 301-489-3 § 4.1 - Equipment | | Type III |
| Class | Conforming to EN 301-489-3 § 6.1 - Equipment | | Class 2 |
| Category | Conforming to EN 300-440-1 § 5.4.1.2 - Temperature | °C | Category 1: - 20 to + 55 |

Electromagnetic immunity and emissions

| | | | |
|---|--|-----|---|
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8: on insulating parts (in free air) 6: on metal parts (contact) |
| | Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3 | V/m | 10: for 80 MHz to 2 000 MHz |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1 | V/m | 3: for 80 MHz to 2 700 MHz and distance = 20 m |
| Radiated emissions | Conforming to EN 300-440-1 and EN 300-440-2 | | Compliant |

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of receiver for wireless, batteryless push buttons (continued)

Environment specifications

| | | | |
|---|------------------------------------|----|--|
| Conforming to standards | Receiver | | EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11 |
| | Transmitter/receiver system | | CE: R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC |
| | Radio frequency | | EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRC, EMC: EN301-489-1, EN301-489-3 |
| Product certifications and radio agreements | | | UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRC (China), CE (Europe) |
| Ambient air temperature around the device | Storage | °C | - 40 to + 70 |
| | Operation | °C | - 25 to + 55 |
| Permissible relative humidity | | | + 90 % RH at + 55 °C (without condensation) |
| Vibration resistance conforming to IEC 60068-2-6 | Frequency: 5 to 8.14 Hz | mm | ± 7.5 |
| | Frequency: 8.14 to 150 Hz | gn | 2 |
| Shock resistance conforming to IEC 60068-2-27 | Half sine wave acceleration: 11 ms | gn | 30 |
| Repetitive shocks resistance | Conforming to IEC 60068-2-27 | gn | 10 (duration: 16 ms - 6 000 shocks) |
| Degree of protection | Conforming to IEC 60529 | | IP 20 |
| Degree of pollution | Conforming to IEC 60664-1 | | 2 |
| Housing material | | | Self-extinguishing plastic |
| Mounting position without derating (temperature) | | | Any position |
| Mounting | | | On DIN rail conforming to EN/IEC 60715 On mounting plate |

Electrical specifications

| | | | |
|---|-------------------------------|-------|---|
| Overvoltage category | Conforming to IEC 60664-1 | | II (AC/DC receiver), III (DC receiver) |
| Insulation resistance | Conforming to NFC 20030 | | > 500 MΩ, --- 500 V |
| Rated insulation voltage | Conforming to IEC 60664-1 | V | 250 (receivers with relay outputs), < 60 (relay with PNP outputs) |
| Insulation test voltage conforming to EN/IEC 60947-5-1 | Dielectric test | Hz/KV | AC/DC receiver: 50 / 1.5 (1 minute) DC receiver: 50 / 1 (1 minute) |
| | | kV | DC receiver: Uimp = 0.8 (1.2 / 50 μs) AC/DC receiver: Uimp = 4 (1.2 / 50 μs) |
| | Surge | | |
| Cabling Maximum c.s.a. conforming to EN/IEC 60947-1 | Solid cable without cable end | mm² | 1 conductor: 0.14 to 2.5 (AWG 26 to AWG 14) 2 conductors: 0.14 to 1.5 (AWG 26 to AWG 16) |
| | Flexible cable with cable end | mm² | 1 conductor: 0.14 to 4 (AWG 26 to AWG 12) 2 conductors: 0.14 to 1.5 (AWG 26 to AWG 16) |
| Tightening torque | Conforming to EN/IEC 60947-1 | | 0.5 N.m/4.43 Lbf.In |
| Power ON indicator | | | Green LED |
| Output indicators | | | Green LED (relay outputs and PNP outputs) |
| Received signal strength | | | Green LED: optimum reception Yellow LED: acceptable reception |

Supply specifications

| Receiver type | ZBRRC | Receiver included in packs XB4RFB01, XB5RFB01 and XB5RMB03 | ZBRRA |
|---------------------------------|-----------------------------|--|---|
| Supply voltage Ue | V | --- 24 (+ 20/- 15 %) | ~/--- 24 to 240 (+/- 10 %) |
| Frequency | Of the power supply circuit | Hz | 50/60 ± 10 % |
| Galvanic isolation | Power supply/output | | Yes |
| Maximum power drawn | | W | < 4 |
| Short-circuit protection | | | Fast-blow fuse 400 mA |
| Immunity to microbreaks | | ms | 7 (total output current 800 mA) 10 (total output current 500 mA) Conforming to IEC 61000-4-11 |

Electromagnetic immunity and emissions

| | | | |
|---|--|-----|---|
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8: on insulating parts (in free air) 6: on metal parts (contact) |
| Resistance to electromagnetic fields | Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3 | V/m | 10: for 80 MHz to 2 000 MHz |
| | Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1 | V/m | 3: for 80 MHz to 2 700 MHz and distance = 20 m |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 1 (PNP output wires) 2 (power supply wires) |
| Hybrid surge withstand conforming to IEC 61000-4-5 | Differential mode | kV | 0.5 |
| | Common mode | kV | 1 |
| Resistance to conducted disturbance | Conforming to IEC 61000-4-6 | V | 10 |
| Emissions | Conducted emissions conforming to EN 300-489-3, EN 300-489-1 | | 2 (power supply wires and relay wires) |
| | Radiated emissions conforming to EN 300-440-1, EN 300-440-2 | | As per class B method CISPR22 Compliant |

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of wireless, batteryless push buttons (continued)

| Radio transmission specifications | | | | |
|---|--|---|--|--|
| Receiver type | | ZBRRC | ZBRR A | Receiver included in packs XB4RFB01, XB5RFB01 and XB5RMB03 |
| Frequency | GHz | 2.4 | | |
| Protocol | | ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products) | | |
| Range | m | Approx. 100 (transmitter and receiver in free space) | | |
| | | Approx. 25 (transmitter in a plastic box type XALD and receiver in a metal enclosure) | | |
| | | Approx. 40 (transmitter in a plastic box type XALD, receiver in a metal enclosure and use of a relay-antenna) | | |
| Relay-antenna | | To increase the range or to get round an obstacle | | |
| Response time | ms | < 30 after the transmitter "clicks" | | |
| Number of transmitter ID codes that can be stored | | 32 max. per receiver or 32 max. per output (example on 2-output receiver: 32/0, 16/16, etc.) | | |
| Type | Conforming to EN 301-489-3 § 4.1 - Equipment | Type III | | |
| Class | Conforming to EN 301-489-3 § 6.1 - Equipment | Class 2 | | |
| Reliability | Conforming to EN 300 440-1 § 4.1.1 - Reliability | Category 2 | | |
| Temperature | Conforming to EN 300 440-1 § 5.4.1.2 - Temperature | °C Category I : - 20 to + 55 | | |
| Output specifications | | | | |
| Output type | | 4 PNP outputs 200 mA/24 V | 2 relay outputs type RT 3A | 1 relay output type RT 3A |
| Output function | | Monostable (500 ms ± 15 %) | Monostable (500 ms ± 15%). Programmable to bistable or Start/Stop | Monostable (500 ms ± 15%) |
| Nominal current I _e conforming to EN/IEC 60947-5-1 and UL 508 / CSA C22-2 n°14 | DC supply conforming to EN/IEC 60947-5-1 | A | 2 | 0.3 / 48 V DC |
| | DC supply conforming to UL 508 / CSA C22-2 n°14 | A | – | 3 / 24 V DC |
| | AC supply conforming to EN/IEC 60947-5-1 | A | – | 1.5 / 240 V AC 3 / 120 V AC |
| | AC supply conforming to UL 508 / CSA C22-2 n°14 | A | – | 3 / 240 V AC |
| Voltage drop | | V | < 2 | – |
| Maximum switching voltage | | V | – | ~/∞ 250 |
| Nominal breaking capacity | | | 4.8 W (0.2 A x 24 V DC) per output | 750 VA (3 A x 250 V AC) 15 W (0.3 A x 48 V DC) |
| | | | | |
| Minimum current I _{th} | Conforming to EN/IEC 60947-5-1 | mA | 10 / ∞ 5 V | |
| Maximum current | | A | – | 5 |
| Electrical durability | | | – | 1 x 10 ⁵ operating cycles |
| Mechanical durability | | | – | 10 x 10 ⁵ operating cycles |
| Maximum operating rate | | Hz | 2 | |
| Utilization categories | Conforming to EN/IEC 60947-5-1 | | DC13 | AC15: B300 |
| | | | | DC12 |

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of relay-antenna for wireless, batteryless push buttons - Works with transmitter(s) and receiver(s)

Environment specifications

| | | | |
|--|--|-------|--|
| Conforming to standards | Antenna | | EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11 |
| | Transmitter /antenna / receiver system | | CE: R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC |
| | Radio frequency | | EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRRC, EMC: EN301-489-1, EN301-489-3 |
| Product certifications and radio agreements | | | UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRRC (China), CE (Europe) |
| Ambient air temperature around the device | Storage | °C | - 40 to + 70 |
| | Operation | °C | - 25 to + 55 |
| Electric shock protection | Conforming to IEC 61140 | | Class II |
| Permissible relative humidity | | | + 90 % RH at + 55 °C (without condensation) |
| Vibration resistance conforming to IEC 60068-2-6 | Frequency: 10 to 55 Hz | mm | ± 0.5 |
| | Frequency: 55 to 500 Hz | gn | 6 |
| Shock resistance | Conforming to IEC 60068-2-27 | | Half sine wave acceleration: 11 ms / 15 gn |
| Repetitive shocks resistance | Conforming to IEC 60068-2-27 | gn | 25 (duration: 6 ms - 6 000 shocks) |
| Degree of protection | Conforming to IEC 60529, UL/CSA | | IP 65 - type 12 |
| Degree of pollution | Conforming to IEC 60664-1 | | 3 |
| Overvoltage category | Conforming to IEC 60664-1 | | III |
| Insulation resistance | Conforming to NFC 20030 | | > 500 MΩ, --- 500 V |
| Rated insulation voltage | Conforming to IEC 60664-1 | V | 250 |
| Insulation test voltage conforming to EN/IEC 60947-5-1 | Dielectric test | Hz/KV | 50 / 4 (1 minute) |
| | Surge | kV | Uimp = 4 (1.2 / 50 μs) |
| Cabling (flexible cable) | Conforming to EN/IEC 60947-1 | m | 5 (2 x 0.34 mm ²) |
| Screw tightening torque | Conforming to EN/IEC 60947-1 | | 0.6 ± 0.1 Nm / 5.3 ± 0.9 Lb.-In |
| Housing material | | | Self-extinguishing plastic |
| Indication | Power ON | | 1 green LED |
| | Transmission/reception | | 2 green LEDs at 180° |
| Mounting position | | | See instructions for assembly |

Supply specifications

| | | | |
|---------------------------|-----------------------------|----|--------------------------------|
| Supply voltage Ue | | V | ~/-: 24 to 240 (± 10 %) |
| Frequency | Of the power supply circuit | Hz | 50/60 ± 10 % |
| Maximum power drawn | | W | < 4 |
| Short-circuit protection | | mA | 400 with fast-blow fuse 400 mA |
| Resistance to microbreaks | | | Conforming to IEC 61000-4-11 |

Electromagnetic immunity and emissions

| | | | |
|--|--|-----|---|
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8: on insulating parts (in free air) 6: on metal parts (contact) |
| Resistance to electromagnetic fields | Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3 | V/m | 10: for 80 MHz to 2 000 MHz |
| | Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1 | V/m | 3: for 80 MHz to 2 700 MHz and distance = 20 m |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 2 |
| Hybrid surge withstand conforming to IEC 61000-4-5 | Differential mode | kV | 1 |
| | Common mode | kV | 2 |
| Resistance to conducted disturbance | Conforming to IEC 61000-4-6 | V | 10 |
| Emissions | Conducted emissions conforming to EN 300-489-3, EN 300-489-1 | | As per class B method CISPR22 |
| | Radiated emissions conforming to EN 300-440-1, EN 300-440-2 | | Compliant |

Radio transmission specifications

| | | | |
|--------------------|--|-----|--|
| Frequency | | GHz | 2.4 |
| Protocol | | | ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products) |
| Range | | m | Approx. 40 m (transmitter in a plastic box type XAL D, receiver in a metal enclosure and use of a relay-antenna) |
| Transmission power | | mW | < 3 |
| Type | Conforming to EN 301-489-3 § 4.1 - Equipment | | Type III |
| Class | Conforming to EN 301-489-3 § 6.1 - Equipment | | Class 2 |
| Reliability | Conforming to EN 300-440-1 § 4.1.1 - Reliability | | Category 2 |
| Temperature | Conforming to EN 300-440-1 § 5.4.1.2 - Temperature | °C | Category I: - 20 to + 55 |

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons



XB5RFA02



Ready-to-use packs (1)

| Description | Transmitter type | Voltage receiver V | Receiver type | Reference | Weight kg/lb |
|---|--|--------------------|---|--|-----------------|
| Packs include: - 1 Wireless, batteryless push button assembled on mounting collar, - 1 receiver push button and receiver are pre-programmed. | Wireless, batteryless push button + Ø 22 mm/0.866 in. plastic head + 1 set of 10 different colored caps (1 cap to be selected and fitted) | ≈ 24 to 240 | Programmable receiver ZBRRA equipped with: - choice of 3 output functions (momentary, maintained, stop/start) - 2 relay outputs type RT 3A (2), - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | XB5RFA02 | 0.230/0.507 |
| | Wireless, batteryless push button + Ø 22 mm/0.866 in. metallic head + 1 set of 10 different colored caps (1 cap to be selected and fitted) | | | Non-programmable receiver equipped with momentary output function: - 1 relay output type RT 3A - without button - without indicating LED | XB4RFA02 |
| Packs include: - 1 Wireless, batteryless push button assembled on mounting collar, in handy box (3), - 1 receiver push button and receiver are pre-programmed. | Wireless, batteryless push button + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 set of 10 different colored caps (1 cap to be selected and fitted) | ≈ 24 to 240 | Programmable receiver ZBRRA equipped with: - choice of 3 output functions (momentary, maintained, stop/start) - 2 relay outputs type RT 3A (2), - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | XB5RMA04 | 0.250/0.551 |
| | Wireless, batteryless push button + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 black cap not fitted | | | Non-programmable receiver equipped with momentary output function: - with 1 relay output type RT 3A - without button - without indicating LED | XB4RMA04 |
| Packs include: - 1 Wireless, batteryless push button assembled on mounting collar, in handy box (3), - 1 receiver push button and receiver are pre-programmed. | Wireless, batteryless push button + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 set of 10 different colored caps (1 cap to be selected and fitted) | ≈ 24 to 240 | Programmable receiver ZBRRA equipped with: - choice of 3 output functions (momentary, maintained, stop/start) - 2 relay outputs type RT 3A (2), - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | XB5RMA04 | 0.250/0.551 |
| | Wireless, batteryless push button + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 black cap not fitted | | | Non-programmable receiver equipped with momentary output function: - with 1 relay output type RT 3A - without button - without indicating LED | XB4RMA04 |

(1) Wireless, batteryless push button and the receiver are pre-programmed.

(2) Receivers supplied are set to momentary output function. The user can configure it to maintained and stop/start functions.

(3) Supplied with a magnet to be attached by the customer.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons



Transmitter components for wireless, batteryless push buttons

| Description | Type of push | Color | Reference | Weight kg/lb |
|--|---|-----------------------------|-------------|--------------|
| Transmitter for wireless, batteryless push button (1) (2) | 1 radio frame sent at the push of the button | – | ZBRT1 | 0.025/0.055 |
| | 1 radio frame sent at the push of the button 1 radio frame sent at the release of the button | – | ZBRT2 ▲ (5) | 0.025/0.055 |
| Spring return push button heads for transmitter ZBRT1 | Flush (plastic) | Without cap (3) | ZB5RZA0 | 0.015/0.033 |
| | Flush (metal) | Without cap (3) | ZB4RZA0 | 0.030/0.066 |
| Spring return mushroom head for transmitter ZBRT1 | Mushroom 40 mm/1.58 in. (plastic) | Black | ZB5RZC2 | 0.025/0.055 |
| Wireless, batteryless push button including: - a transmitter fitted with mounting collar - a spring return mushroom head | Mushroom 40 mm/1.58 in. (plastic) | Black | ZB5RTC2 | 0.055/0.121 |
| Wireless, batteryless push buttons including: - a transmitter fitted with mounting collar - a spring return push button head with clipped-in cap (4) | Flush (plastic) | White | ZB5RTA1 | 0.045/0.099 |
| | | Black | ZB5RTA2 | 0.045/0.099 |
| | | Green | ZB5RTA3 | 0.045/0.099 |
| | | White I on green background | ZB5RTA331 | 0.045/0.099 |
| | | Red | ZB5RTA4 | 0.045/0.099 |
| | | White O on red background | ZB5RTA432 | 0.045/0.099 |
| | Flush (metal) | White | ZB4RTA1 | 0.085/0.187 |
| | | Black | ZB4RTA2 | 0.085/0.187 |
| | | Green | ZB4RTA3 | 0.085/0.187 |
| | | White I on green background | ZB4RTA331 | 0.085/0.187 |
| | | Red | ZB4RTA4 | 0.085/0.187 |
| | | White O on red background | ZB4RTA432 | 0.085/0.187 |
| Flush (metal) | Yellow | ZB5RTA5 | 0.045/0.099 | |
| | Blue | ZB5RTA6 | 0.045/0.099 | |
| | Blue | ZB4RTA6 | 0.085/0.187 | |

Transmitter components for wireless, batteryless rope pull switch

| Description | Application | Reference | Weight kg/lb |
|---|--|-----------|--------------|
| Rope pull switch with wireless, batteryless transmitter | For automatic doors: The rope pull switch sends a radio message to the receiver placed in the control panel to open and close the door. | ZBRP1 | 0.150/0.331 |

(1) Mounting collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.
 (2) Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
 (3) Cap to be ordered separately. Refer to the "Accessories" table on page 185.
 (4) This cap is fitted by Schneider Electric and cannot be removed (risk of damage).
 (5) This transmitter is only compatible with receiver ZBRR version ≥ 2.0, relay antenna ZBRA1 version ≥ 2.0 and access point ZBRN version > 1.2.

▲ Available: May 2014.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons



ZBRRA



ZBA7235



ZBA7331



ZBA7432



ZBA79



ZBRM22



ZBRACS



ZBRM01



XALD02



ZBRA1

Programmable receivers

| Description | Output function | Output type | Receiver voltage V | Reference | Weight kg/lb |
|---|-----------------------------------|--------------------------------|--------------------|-----------|--------------|
| Programmable receivers (1) equipped with: - 2 buttons (teach and parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | Momentary | 4 PNP outputs, 200 mA /24 V | 24 | ZBRRC | 0.130/0.287 |
| | Momentary, Maintained | 2 relay outputs type RT 3A (2) | 24 to 240 | ZBRRD | 0.130/0.287 |
| | Momentary, Maintained, Stop/Start | 2 relay outputs type RT 3A (2) | 24 to 240 | ZBRRA | 0.130/0.287 |

Accessories

Caps for Harmony push button heads ZB5RZA0 and ZB4RZA0

| Description | Background color | Marking | Sold in lots of | Unit reference | Weight kg/lb |
|---|--|--------------|-----------------|----------------|--------------|
| Sets of 10 different colored caps with identical marking (3) | White | Without | 10 | ZBA71 | 0.010/0.022 |
| | | "I" (black) | 10 | ZBA7131 | 0.010/0.022 |
| | | "↑" (black) | 10 | ZBA7134 | 0.010/0.022 |
| | Black | "+" (black) | 10 | ZBA7138 | 0.010/0.022 |
| | | Without | 10 | ZBA72 | 0.010/0.022 |
| | | "O" (white) | 10 | ZBA7232 | 0.010/0.022 |
| | Green | "+" (white) | 10 | ZBA7233 | 0.010/0.022 |
| | | "⊕" (white) | 10 | ZBA7235 | 0.010/0.022 |
| | | "I" (white) | 10 | ZBA7237 | 0.010/0.022 |
| | Red | Without | 10 | ZBA73 | 0.010/0.022 |
| | | "I" (white) | 10 | ZBA7331 | 0.010/0.022 |
| | | "+" (white) | 10 | ZBA7333 | 0.010/0.022 |
| | Yellow | "↑" white | 10 | ZBA7335 | 0.010/0.022 |
| | | "II" (white) | 10 | ZBA7336 | 0.010/0.022 |
| | | Without | 10 | ZBA74 | 0.010/0.022 |
| | Blue | "O" (white) | 10 | ZBA7432 | 0.010/0.022 |
| | | Without | 10 | ZBA75 | 0.010/0.022 |
| | | Without | 10 | ZBA76 | 0.010/0.022 |
| Set of 10 different colored caps with different markings (3) | White, black, green, red, yellow, blue, white "I" on green background, black "I" on white background, white "O" on red background, white "O" on black background | | 1 | ZBA79 | 0.010/0.022 |

| | | | | |
|--|--|---|-------|-------------|
| Set of 6 different colored caps | White, black, green, red, yellow, blue | 1 | ZBA80 | 0.010/0.022 |
|--|--|---|-------|-------------|

Boxes for wireless, batteryless push buttons

| Product | Application | Description | Sold in lots of | Unit reference | Weight kg/lb |
|---|---|---|-----------------|----------------|--------------|
| Handy box, plastic, empty (4) (8) | For mobile and mount applications with wireless, batteryless push buttons | 1 cut-out | 1 | ZBRM21 | 0.109/0.240 |
| | | 2 cut-outs | 1 | ZBRM22 | 0.110/0.243 |
| | | Support for tube or wall specific for ZBRM21 and ZBRM22 | 1 | ZBRACS | 0.064/0.141 |
| Mobile box, plastic, empty (4) (5) (8) | For mobile wireless, batteryless push buttons | 1 cut-out | 1 | ZBRM01 | 0.040/0.088 |
| Empty plastic boxes for wireless, batteryless push buttons (6) | For mounted or on-board wireless, batteryless push buttons | 1 cut-out | 1 | XALD01 | 0.136/0.300 |
| | | 2 cut-outs | 1 | XALD02 | 0.193/0.426 |

Accessories

| | | | | | |
|--|---|---|----|----------|-------------|
| Relay-antenna (7) | Between transmitter and receiver Used to increase the range and/or get round obstacles | 24 to 240 V - 5 m / 16.4 ft cable - 1 power-ON LED - 2 LEDs reception/transmission | 1 | ZBRA1 | 0.200/0.441 |
| Mounting collar | - | Plastic | 10 | ZB5AZ009 | 0.038/0.084 |
| | | Metal | 10 | ZB4BZ009 | 0.038/0.084 |
| Legend plate, 27 x 8 mm/ 1.06 x 0.32 in., for engraving | For attaching to handy box ZBRM01, ZBRM21 and ZBRM22 | Self-adhesive, blank, Black background | 10 | ZBY0101T | 0.005/0.011 |

(1) Each receiver can be actuated by up to 32 transmitters.

(2) Receivers supplied are set to momentary output function. The user can configure it to maintained and stop/start functions.

(3) Cap can be snapped on at 90° intervals, through 360°.

(4) Cannot be used for wired contacts (no cable gland outlet)

(5) Supplied with a magnet to be attached by the customer.

(6) Box equipped with cable gland outlets, compatible with Harmony ZB5 push button heads.

(7) Not wired to the receiver.

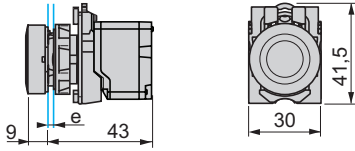
(8) Compatible with ZBR1 and ZBR2.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Dimensions

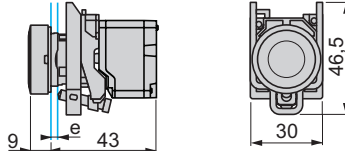
Wireless, batteryless push buttons - Transmitter

ZB5RTA●●●, with plastic push button and cap



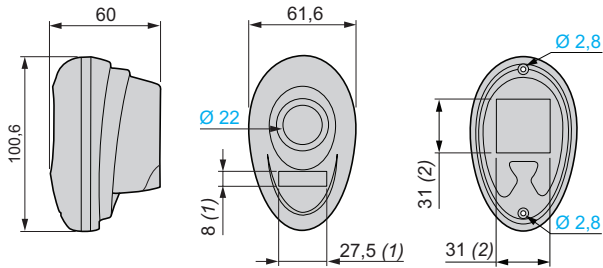
e: panel thickness 1 to 6 mm

ZB4RTA●●●, with metal push button and cap

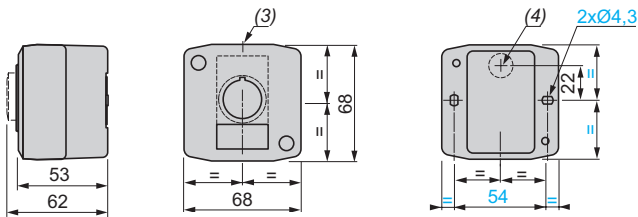


e: panel thickness 1 to 6 mm

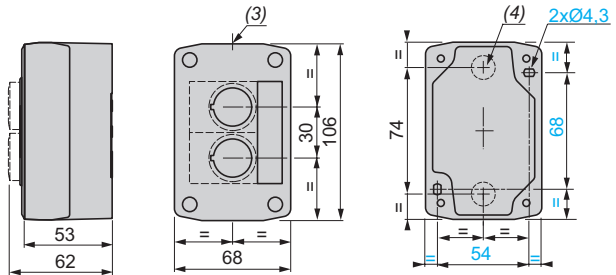
ZBRM01, Plastic handy box for mobile use



XALD01, Plastic box, single-hole for mounted or on-board installation



XALD02, Plastic box, 2-hole for mounted or on-board installation



(1) Location for ZBY0101T legend.

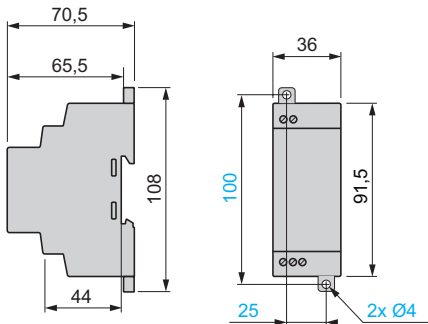
(2) Location for magnet to be attached by customer.

(3) 2 knock-outs for Pg 13.5 cable gland, maximum capacity 12 mm.

(4) Knock-out for wire routing, maximum capacity 14 mm.

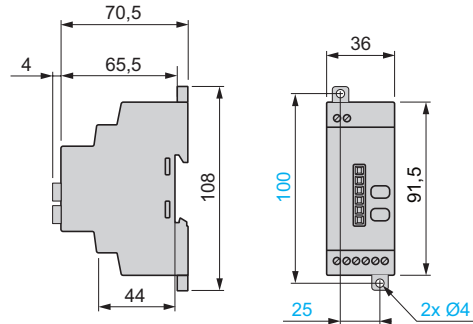
Non-programmable receiver

Receiver contained in packs XB4RFB01, XB5RFB01 and XB5RMB03



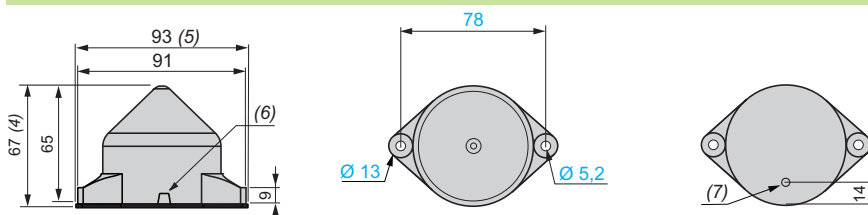
Programmable receivers

Receivers ZBRR● (contained in packs XB4RFA02, XB5RFA02 and XB5RMA04)



Relay-antenna

ZBRA1



(5) With seal.

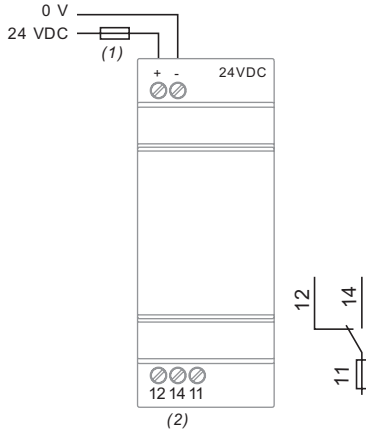
(6) Radial cable route.

(7) Axial cable route.

Wiring diagrams

Non-programmable receiver

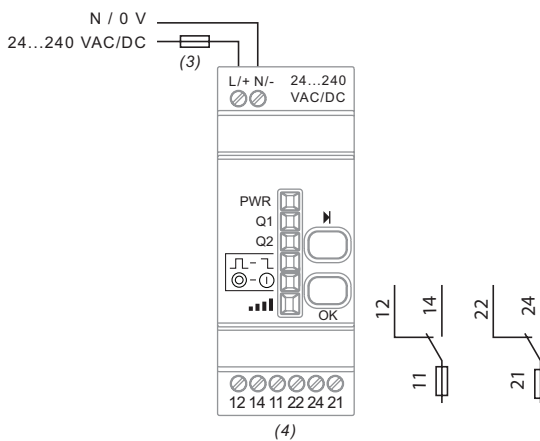
Receiver contained in packs XB5RFB01 and XB5RMB03



- (1) 125 mA fast-blow fuse.
- (2) $I_{max} = 3\text{ A}$.

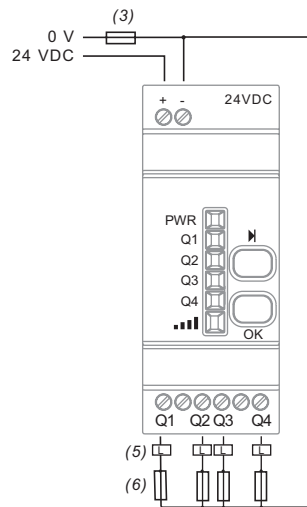
Programmable receivers

Receiver ZBRRR (contained in packs XB4RFA02, XB5RFA02 and XB5RMA04)



- (3) 400 mA fast-blow fuse.
- (4) $I_{max} = 3\text{ A}$.

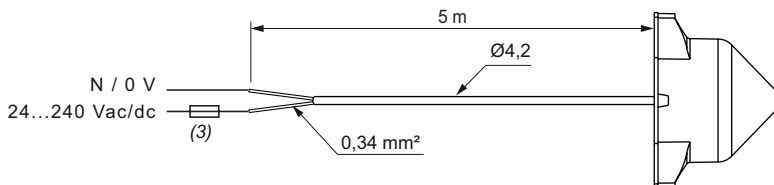
Receiver ZBRRC



- (3) 400 mA fast-blow fuse.
- (5) $I_{max} = 200\text{ mA}$
- (6) $I_{max} = 300\text{ mA}$.

Relay-antenna

ZBRA1



- (3) 400 mA fast-blow fuse.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRN1 and ZBRN2 Access points

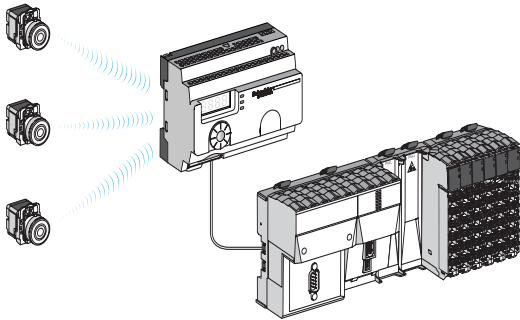


Figure A: radio transmission between 3 transmitters and 1 Access Point

Introduction

The access point for Harmony™ wireless, batteryless push buttons provides network connectivity by operating as intermediate equipment between the transmitter and the PLC (Programmable Logic Controller). The access point receives radio signals from the transmitters and converts them to communication protocols. Based on the model, it is connected to the PLC using either RS485 Modbus Serial line or Modbus/TCP protocol.

The access point can be used with transmitters such as XB4R and XB5R wireless, batteryless push buttons, rope pull switch, mushroom head push button (1), and all PLCs that support Modbus Serial line over RS485 or Modbus/TCP protocols.

Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters.

The Access point can be configured:

- through jog dial and 7-segment display (configuration and diagnostic modes),
- through web pages for ZBRN1 (Modbus/TCP communication module),
- through SoMachine™, Unity™ Pro software, or third party FDT container using DTM (Device Type Manager) files (2) (3),
- through SD card and csv files for communication and radio configuration.

The possible distance (4) between a transmitter and an access point is approximately:

- 100 m/328 ft where there are no obstacles,
- 25 m/82 ft if the access point is installed in a metal housing or in a closed metal enclosure,
- 300 m/984 ft if a Repeater is located between the transmitter and the access point (installed in a metal housing or in a closed metal enclosure),
- 60 m/197 ft if an external antenna is connected to the access point.

Description

Standard access point with communication module (see figure B)

The access point ZBRN1 has an empty slot for the ZBRCETH communication module to support Modbus™/TCP protocol. This communication module has 2 standard Ethernet RJ45 connectors that provide connectivity for daisy chain operation and daisy chain loop operation (when used with Schneider Electric ConneXium™ Ethernet switches) and thus avoids the use of an external switch or hub.

- 1 ZBRN1 standard access point (5)
- 2 ZBRN1 instruction sheet
- 3 ZBRCETH Modbus/TCP network communication module
- 4 ZBRCETH instruction sheet

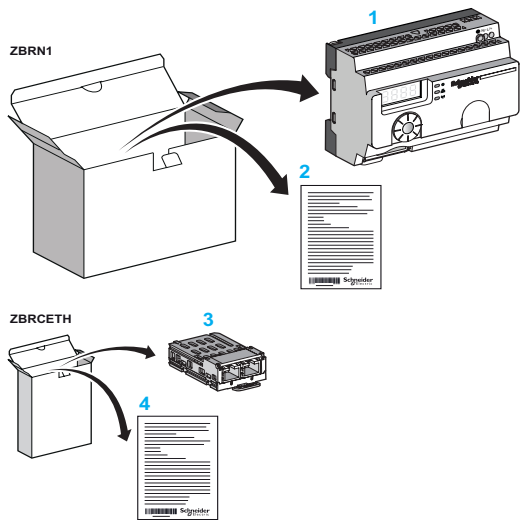


Figure B: standard access point with communication module

(1) Please refer to the References table on page 184 for the compatible list of transmitters.

(2) For more information on SoMachine and Unity Pro software, please refer to our website www.schneider-electric.com.

(3) DTM is a software component file that enables the SoMachine or Unity Pro software to communicate with the connected system.

(4) Typical values which can be affected by the application environment.

(5) ZBRN1 must be plugged with a communication module, reference ZBRCETH for Modbus/TCP protocol.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRN1 and ZBRN2 Access points

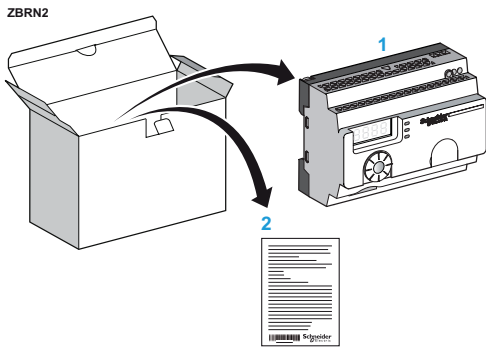


Figure C: access point for Modbus Serial line connection



ZBRN2



ZBRN1



ZBRCETH



ZBRA2

Description

Access point for Modbus™ serial line protocol (see figure C)

The access point ZBRN2 has 2 embedded RS485 connectors that avoid the use of an external hub for RS485 Serial line connection. The supported baud rates are 1200 bps, 2400 bps, 4800 bps, 9200 bps, 9600 bps, 38,400 bps, and 115,200 bps.

- 1 ZBRN2 access point
- 2 ZBRN2 instruction sheet

Programmable access points

| Description | Data function | Output type | Receiver voltage V | Reference | Weight kg/lb |
|---|---|--|--------------------|--------------|-----------------|
| Programmable access points equipped with: - 7-segment display - jog dial - 8 indicating LEDs (power ON, functions mode, communication status, signal strength) - external antenna connector and protective plug | Momentary (adjustable from 100 ms to 1 s) | 2 RS485 connectors that provides connectivity for Modbus RS485 Serial line | ~ 24 to 240 | ZBRN2 | 0.270/ 0.595 |
| | Momentary (adjustable from 100 ms to 1 s) | 1 slot for communication module ZBRCETH (should be ordered separately) | ~ 24 to 240 | ZBRN1 | 0.263/ 0.580 |

Communication module

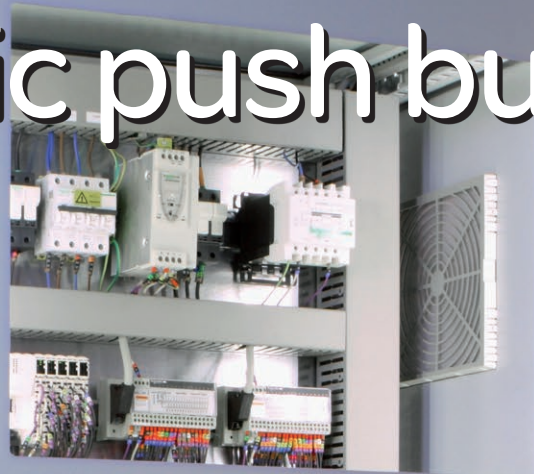
| Description | Characteristics | Communication port | Reference | Weight kg/lb |
|---|--|---|----------------|-----------------|
| Modbus/TCP network communication module | Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring and diagnostics | 2 RJ45 connectors that provides connectivity for daisy chain and daisy chain loop operation | ZBRCETH | 0.044/ 0.097 |

Accessories

| Product | Application | Description | Reference | Weight kg/lb |
|------------------|---|-------------------------------------|--------------|-----------------|
| External antenna | Connected to the access point (ZBRN1 or ZBRN2) Used to increase the distance of transmission | 2 m/6.56 ft cable 1 RF connector | ZBRA2 | 0.040/ 0.088 |

Note: The ZBRN2 has embedded communication port for Modbus Serial Line, while the ZBRN1 must be plugged with a communication module to support different protocols.

Harmony™ XB7 Monolithic push buttons



Harmony™ XB7: Compact, robust, monolithic 22 mm push buttons for your machines

For your control systems that require high-performance, compact, and easy-to-install components...Harmony XB7 push buttons are your ideal solution. The new Emergency Stop push button design allows immediate identification of safety functions and status of contacts.

> Simple installation, simple integration...

Easy to install and to integrate into your Control Systems

> Designed for quality and conformity...

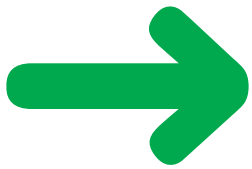
Conforms to industry standards and Machinery Directive

> High performance for industrial applications...

Robust, durable controls for industry and buildings

Make the most of your energySM





Simple installation...

The monolithic design of the Harmony™ XB7 makes it **easy to mount** on machines or control panels with only one ring nut.

The 4 top-down terminals enable **easy wiring** with finger protection (IP 20).



IEC 60529
compliant



Simple integration...

New ergonomic design in 6 colors, plus illuminated functions with **integrated LED**.

Complete
product range



Push buttons ○ ● ● ● ● ● ● ●



Pilot lights ● ● ● ● ● ● ● ●

Long life: a duration of more than **70,000 hours** on pilot lights and **1 million** operations for push buttons.



Illuminated push buttons ● ● ● ● ● ● ● ●



Handle selectors ●



Key selectors ●

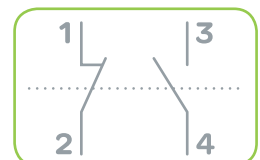


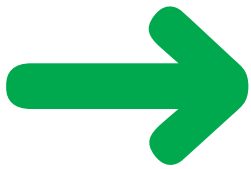
Emergency stop push buttons ●

1 reference = **1 function**

Electrical reliability

Contact functions are designed for **load switching** (I/O interface) and resistance to vibrations.





Designed for quality and conformity...

Harmony™ XB7 “Emergency stop” push buttons comply with EN/IEC and UL standards, EN 13850, EN/IEC 60947-5-5 and are designed for machines and industrial control panels. The emergency stop function consists of:

Red trigger action



Standardized yellow legend

Green mark on body allows contact state visualization



Off



On

Green
mark for contact state



Worldwide availability



Conforming to
EN/IEC 60947-5-5

International certifications:
CE, UL, CSA, CCC, GOST



High performance for industrial applications...

The Harmony XB7 push button is perfect for industry applications like packaging and other machine processes, and building applications, including: HVAC, electrical distribution, and lighting.

Assembly lines



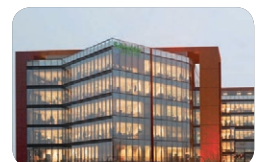
Packaging machines



HVAC



Buildings



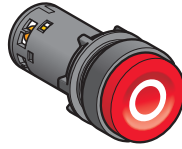
Degree of protection
IP 65

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Complete products: Contact functions

Spring return push buttons with/without marking



Flush

XB7 NA●●●●: see page 197

Projecting

XB7 NL●●●●: see page 197

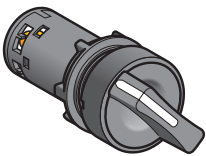
Latching push buttons without marking



Flush

XB7 NH●●: see page 197

Selector switches and key switches



Standard handle, black

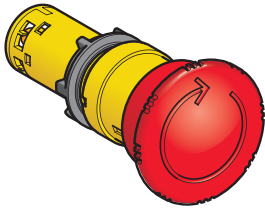
XB7 ND●●: see page 200



Key operated

XB7 NG●●: see page 200

Emergency Stop push buttons



Turn to release/Push-pull/Key release

XB7 NS●●●●/XB7 NT●●●: see page 200

Complete products: Signalling functions

Pilot lights



With integral LED

XB7 EV0●●P: see page 199

Illuminated push buttons, with projecting push



With integral LED, spring return or latching

XB7 NW●●●●, XB7 NJ●●●●1: see page 199

Legend holders, legends, and accessories

See pages 201 and 202

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

| Environment | | | |
|--|--|----|--|
| Protective treatment | Standard version | | "TH" |
| Ambient air temperature around the device | For storage | °C | -40 to +70 |
| | For operation | °C | -25 to +70 for integral LED version |
| Electric shock protection | Conforming to IEC 61140 | | Class II |
| Degree of protection | Conforming to IEC 60529 | | Front face: <input type="checkbox"/> IP 65 for push buttons, illuminated push buttons, pilot lights, selector switches and Emergency Stop push buttons Rear face: <input type="checkbox"/> IP 20 (protection against direct contact) |
| | Conforming to UL 50E | | <input type="checkbox"/> Suitable for enclosure type 3: push buttons, illuminated push buttons, selector switches, Emergency Stop push buttons <input type="checkbox"/> Suitable for enclosure type 4: pilot lights with integral LED <input type="checkbox"/> Suitable for enclosure type 12: Emergency Stop push buttons, pilot lights with integral LED |
| Conformity to standards | Generic standards UL, CSA, GOST, CCC and CE | | <input type="checkbox"/> EN/IEC 60947-1, EN/IEC 60947-5-1 for push buttons, pilot lights, illuminated push buttons and selector switches <input type="checkbox"/> UL, EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850 for Emergency Stop trigger action push buttons <input type="checkbox"/> UL 508, CSA C22 n° 14, CCC, GB 14048.5 for all XB7 range |
| Terminal referencing | Conforming to EN 50005 and EN 50013 | | Conforms |

| General specifications | | | |
|---|--------------------------------------|-----------------|--|
| Mechanical durability (in operating cycles) | | | <input type="checkbox"/> Push buttons: 1,000,000 <input type="checkbox"/> Illuminated push buttons, spring return and latch type: 300,000 <input type="checkbox"/> Selector switches and key switches: 300,000 <input type="checkbox"/> Emergency Stop: 100,000 |
| Vibration resistance | Conforming to IEC 60068-2-6 | | 5 gn (frequency 2 to 500 Hz) |
| Mechanical shock resistance | Conforming to IEC 60068-2-27 | | Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn Half sine wave acceleration 11 ms: - 15 gn for Emergency Stop push buttons |
| Mounting Conforming to EN/IEC 60947-5-1 | Finished mounting hole | mm | 22.5, recommended (22.3 + 0.4/0) |
| | Mounting center | mm | <input type="checkbox"/> 30 x 40 for all products (except Emergency Stop push buttons) <input type="checkbox"/> 40 x 40 for Emergency Stop push buttons |
| | Support panel thickness | mm | <input type="checkbox"/> Metal: 1 to 6 <input type="checkbox"/> Plastic: 2 to 6 |
| | Mounting nut: head tightening torque | N•m | <input type="checkbox"/> 2.2 (+/-0.2) |
| Cabling capacity Conforming to EN/IEC 60947-1 | Screw clamp terminal connection | mm ² | For all types of push buttons and pilot lights: <input type="checkbox"/> min: 1 x 0.34 mm ² without cable end <input type="checkbox"/> max: 2 x 1.5 mm ² with cable end or 2 x 2.5 mm ² without cable end |
| | Forked "U" type tag connection | | 2 max., fitted head to tail (for all types of push buttons and pilot lights) Recommended fork width: 6.5 mm (7 mm max.) for M3 screw |
| | Faston clip connection | mm | Type 6.35 x 0.8 mm (for pilot lights only) |
| Tightening torque of mounting screws | | N•m | <input type="checkbox"/> 0.8 (nominal recommended) <input type="checkbox"/> 1.2 (max.) Screw heads compatible with Pozidriv, Phillips or JIS screwdrivers (size 1) and flat tipped screwdrivers (4 and 5.5 mm) |

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

| Contact function specifications | | | |
|---|--|----|---|
| Type of contact | N/C, N/O or N/C+N/O | | <input type="checkbox"/> Slow break <input type="checkbox"/> Snap action for Emergency Stop push buttons |
| Positive operation | Conforming to EN/IEC 60947-5-1 Appendix K | | All functions incorporating a N/C contact are positive opening operation |
| Short-circuit protection | Conforming to EN/IEC 60947-5-1 | A | 4 (using gG cartridge fuse conforming to IEC 269-1) |
| Rated insulation voltage | Conforming to EN/IEC 60947-1 | V | Ui = 250 (degree of pollution 3) |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV | Uimp = 6 |
| Rated operational specifications conforming to EN/IEC 60947-5-1 | a.c. supply: utilization category AC14, D300 | | Ue = 240 V and Ie = 0.3 A or Ue = 120 V and Ie = 0.6 A |
| | AC15, C300 | | Ue = 120 V and Ie = 1.5 A or Ue = 240 V and Ie = 0.75 A (Emergency Stop only) |
| | DC13, R300 | | Ue = 250 V and Ie = 0.1 A or Ue = 125 V and Ie = 0.22 A |
| Electrical reliability at 17 V and 5 mA | Failure rate in accordance with EN/IEC 60947-5-4 | | <input type="checkbox"/> $\lambda \leq 10^{-6}$ <input type="checkbox"/> $\lambda \leq 5 \times 10^{-7}$ (Emergency Stop only) |

| Light function specifications | | | | | |
|--|---|---------------------------------|----|--|--------------|
| Type of signaling units | | Illuminated push buttons | | Pilot lights | |
| Integral LED | | | | | |
| Current consumption | For all colors | $\overline{\sim}$ / \sim 24 V | mA | 18 (27 max.) | 20 (27 max.) |
| | | \sim 120 V | mA | 12 (17 max.) | 18 (21 max.) |
| | | \sim 230 V | mA | 22 (27 max.) | 16 (20 max.) |
| Voltage limits | At nominal voltage | $\overline{\sim}$ 24 V | V | 19.2 to 30 | |
| | | \sim 24 V | V | 21.6 to 26.4 | |
| | | \sim 120 V | V | 100 to 132 | |
| | | \sim 230–240 V | V | 195 to 264 | |
| Service life | At nominal voltage and at an ambient temperature of 25 °C | Hr | | 70,000 | |
| Overvoltage withstand | Level of protection | \sim 120 V | VA | 100 | |
| | | \sim 230 V | VA | 200 | |
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | | 6: on contact, on metal parts 8: in free air, in insulating parts | |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3 | V/m | | 10 | |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | KV | | 2 | |
| Surge withstand | Conforming to IEC 61000-4-5 | KV | | 1 | |
| Immunity to conducted disturbances | Conforming to IEC 61000-4-6 | V | | 10 | |
| Brightness | At nominal voltage and for all colors | Lux | | > 200 | |

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights



XB7NA31



XB7NL4









XB7NH2

| Push buttons | | | | | | | | | |
|--|--------------|-----------------|-----|---------|-------|---------------|-----------------|----------------|--------|
| Shape of head | Type of push | Type of contact | | Marking | | Color of push | Sold in lots of | Unit reference | Weight |
| | | N/O | N/C | Text | Color | | | | |
| Spring return push button without marking | | | | | | | | | |
| | Flush | 1 | – | – | – | White | 10 | XB7NA11 | 0.021 |
| | | 1 | – | – | – | Black | 10 | XB7NA21 | 0.021 |
| | | 1 | – | – | – | Green | 10 | XB7NA31 | 0.021 |
| | | 1 | – | – | – | Yellow | 10 | XB7NA81 | 0.021 |
| | | 1 | 1 | – | – | White | 10 | XB7NA15 | 0.021 |
| | | 1 | 1 | – | – | Black | 10 | XB7NA25 | 0.021 |
| | | 1 | 1 | – | – | Green | 10 | XB7NA35 | 0.021 |
| | | 1 | 1 | – | – | Red | 10 | XB7NA45 | 0.021 |
| | | 1 | 1 | – | – | Blue | 10 | XB7NA65 | 0.021 |
| | | 1 | 1 | – | – | Yellow | 10 | XB7NA85 | 0.021 |
| | | – | 1 | – | – | Red | 10 | XB7NA42 | 0.021 |
| | | 2 | – | – | – | Black | 10 | XB7NA23 | 0.021 |
| | | 2 | – | – | – | Green | 10 | XB7NA33 | 0.021 |
| – | 2 | – | – | Red | 10 | XB7NA44 | 0.021 | | |
| | Projecting | – | 1 | – | – | Red | 10 | XB7NL42 | 0.021 |
| | | 1 | 1 | – | – | Red | 10 | XB7NL45 | 0.021 |
| | | – | 2 | – | – | Red | 10 | XB7NL44 | 0.021 |
| Latch type push button without marking | | | | | | | | | |
| | Flush | 1 | – | – | – | Black | 10 | XB7NH21 | 0.021 |
| | | 1 | – | – | – | Green | 10 | XB7NH31 | 0.021 |
| | | 1 | 1 | – | – | Black | 10 | XB7NH25 | 0.021 |
| | | 1 | 1 | – | – | Green | 10 | XB7NH35 | 0.021 |
| | | 1 | – | – | – | Yellow | 10 | XB7NH81 | 0.021 |

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

| Push buttons (continued) | | | | | | | | | | | |
|--|--|---|---|---------|-------|---------------|-----------------|----------------|------------|------------|-------|
| Shape of head | Type of push | Type of contact | | Marking | | Color of push | Sold in lots of | Unit reference | Weight | | |
| | | N/O | N/C | Text | Color | | | | | | |
| Spring return push button with marking | | | | | | | | | | | |
|  XB7NA3133 | Flush |  | 1 | – | I | White | Green | 10 | XB7NA3131 | 0.021 | |
| | | | 1 | – | II | White | Green | 10 | XB7NA3136 | 0.021 | |
| | | | 1 | – | START | White | Green | 10 | XB7NA3133 | 0.021 | |
| | | | 1 | – | ↓ | Black | White | 10 | XB7NA11343 | 0.021 | |
| | | | 1 | – | ↑ | Black | White | 10 | XB7NA11341 | 0.021 | |
| | | | 1 | – | ↓ | White | Black | 10 | XB7NA21343 | 0.021 | |
| | | | 1 | – | ↑ | White | Black | 10 | XB7NA21341 | 0.021 | |
| |  XB7NA4234 | Projecting |  | – | 1 | O | White | Red | 10 | XB7NA4232 | 0.021 |
| | | | | – | 1 | STOP | White | Red | 10 | XB7NA4234 | 0.021 |
| | | | | 2 | – | I | White | Green | 10 | XB7NA3331 | 0.021 |
| | | | | 2 | – | II | White | Green | 10 | XB7NA3336 | 0.021 |
| | | | | 2 | – | START | White | Green | 10 | XB7NA3333 | 0.021 |
| | | | | 1 | 1 | O | White | Red | 10 | XB7NA4532 | 0.021 |
| | | | | 1 | 1 | STOP | White | Red | 10 | XB7NA4534 | 0.021 |
| | | | | 1 | 1 | ↓ | Black | White | 10 | XB7NA15343 | 0.021 |
| | | | | 1 | 1 | ↑ | Black | White | 10 | XB7NA15341 | 0.021 |
| | | | | 1 | 1 | ↓ | White | Black | 10 | XB7NA25343 | 0.021 |
|  XB7NL4232 | Projecting |  | – | 1 | O | White | Red | 10 | XB7NL4232 | 0.021 | |
| | | | – | 1 | STOP | White | Red | 10 | XB7NL4234 | 0.021 | |
| | | | 1 | 1 | O | White | Red | 10 | XB7NL4532 | 0.021 | |
| | | | 1 | 1 | STOP | White | Red | 10 | XB7NL4534 | 0.021 | |

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights



XB7NW33●1

| Illuminated push buttons, projecting push | | | | | | | |
|---|---|---------------|-----------------|--------------------------------------|-----------|-----------|-----------|
| with integral LED | | | | | | | |
| Shape of head | Type of push and contacts | Color of lens | Sold in lots of | Unit reference by supply voltage (1) | | | Weight kg |
| | | | | ~ / ~ 24 V | ~ 120 V | ~ 230 V | |
| ● | Spring return push with N/O or N/C contacts (1) | Green | 10 | XB7NW33B1 | XB7NW33G1 | XB7NW33M1 | 0.023 |
| | | Red | 10 | XB7NW34B1 | XB7NW34G1 | XB7NW34M1 | 0.023 |
| | | | 10 | XB7NW34B2 | XB7NW34G2 | XB7NW34M2 | 0.023 |
| | | Orange | 10 | XB7NW35B1 | XB7NW35G1 | XB7NW35M1 | 0.023 |
| | | Blue | 10 | XB7NW36B1 | XB7NW36G1 | XB7NW36M1 | 0.023 |
| | | Clear | 10 | XB7NW37B1 | XB7NW37G1 | XB7NW37M1 | 0.023 |
| | | 10 | XB7NW38B1 | XB7NW38G1 | XB7NW38M1 | 0.023 | |
| | Latch push | Green | 10 | XB7NJ03B1 | XB7NJ03G1 | XB7NJ03M1 | 0.023 |
| | | Red | 10 | XB7NJ04B1 | XB7NJ04G1 | XB7NJ04M1 | 0.023 |
| | | | 10 | XB7NJ04B2 | XB7NJ04G2 | XB7NJ04M2 | 0.023 |
| | | Orange | 10 | XB7NJ05B1 | XB7NJ05G1 | XB7NJ05M1 | 0.023 |
| | | Blue | 10 | XB7NJ06B1 | XB7NJ06G1 | XB7NJ06M1 | 0.023 |
| | | Clear | 10 | XB7NJ07B1 | XB7NJ07G1 | XB7NJ07M1 | 0.023 |
| | | 10 | XB7NJ08B1 | XB7NJ08G1 | XB7NJ08M1 | 0.023 | |



XB7EV08●P

| Pilot lights | | | | | | | |
|-------------------|---------------------------------|---------------|-----------------|--------------------------------------|-----------|-----------|-----------|
| with integral LED | | | | | | | |
| Shape of head | Type of light source (included) | Color of lens | Sold in lots of | Unit reference by supply voltage (2) | | | Weight kg |
| | | | | ~ / ~ 24 V | ~ 120 V | ~ 230 V | |
| ● | Integral LED | Green | 10 | XB7EV03BP | XB7EV03GP | XB7EV03MP | 0.020 |
| | | Red | 10 | XB7EV04BP | XB7EV04GP | XB7EV04MP | 0.020 |
| | | Yellow | 10 | XB7EV05BP | XB7EV05GP | XB7EV05MP | 0.020 |
| | | Blue | 10 | XB7EV06BP | XB7EV06GP | XB7EV06MP | 0.020 |
| | | Clear | 10 | XB7EV07BP | XB7EV07GP | XB7EV07MP | 0.020 |
| | | Orange | 10 | XB7EV08BP | XB7EV08GP | XB7EV08MP | 0.020 |

(1) All product references ending with "1" correspond to products with N/O contacts (Example: XB7NW34B1). All product references ending with "2" correspond to products with N/C contacts (Example: XB7NW34B2).

(2) For Faston® connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference. Example: XB7EV07BP becomes XB7EV07BP3.

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Selector switches and key switches



XB7ND2●



| Shape of head | Type of operator | Type of contact | | Number and type of positions (1) | Sold in lots of | Unit reference | Weight kg | |
|---------------|------------------------|-----------------|----|--------------------------------------|-----------------|----------------|----------------|-------|
| | | NO | NC | | | | | |
| | Standard handle, black | 1 | – | 2, stay put | ✓ | 10 | XB7ND21 | 0.026 |
| | | 1 | 1 | 2, stay put | ✓ | 10 | XB7ND25 | 0.026 |
| | | 2 | – | 3, stay put | ✓ | 10 | XB7ND33 | 0.026 |
| | Key (key n° 455) | 1 | – | 2, key withdrawal in LH position | ✓ | 10 | XB7NG21 | 0.050 |
| | | 2 | – | 3, key withdrawal in center position | ✓ | 10 | XB7NG33 | 0.050 |



XB7NG33

Ø 40 mm Emergency stop trigger action and mechanically latching push buttons



XB7 NS84●

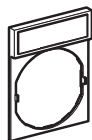


| Shape of head | Type of push | Standards | Type of contact | | Color of push | Sold in lots of | Unit reference | Weight kg |
|---------------|----------------------|---|-----------------|----|---------------|-----------------|------------------|--------------|
| | | | NO | NC | | | | |
| | Turn to release | EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5, Machinery directive 2006/42/EC and UL | – | 1 | Red | 10 | XB7NS8442 | 0.045 |
| | | | 1 | 1 | Red | 10 | XB7NS8445 | 0.045 |
| | | | – | 2 | Red | 10 | XB7NS8444 | 0.045 |
| | Push-pull | EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5, Machinery directive 2006/42/EC and UL | – | 1 | Red | 10 | XB7NT842 | 0.040 |
| | | | 1 | 1 | Red | 10 | XB7NT845 | 0.040 |
| | | | – | 2 | Red | 10 | XB7NT844 | 0.040 |
| | Key release (n° 455) | EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5, Machinery directive 2006/42/EC and UL | – | 2 | Red | 10 | XB7NS9444 | 0.072 |
| | | | – | 1 | Red | 10 | XB7NS9445 | 0.072 |

(1) The symbol "⌘" indicates key withdrawal position.

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights



ZBY 2101

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends

| Text | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|----------------|-----------|
| Without legend | 10 | ZBZ32 | 0.001 |

Legend holder, 30 x 40 mm with legend (black or red background)

with blank legend

| Text | Sold in lots of | Unit reference | Weight kg |
|---------|-----------------|----------------|-----------|
| Without | 10 | ZBY2101 | 0.001 |

with marked legend (sold singly)

Start functions: White characters on black background.
Stop functions: White characters on red background.

| Text | Unit reference | Weight kg | Text | Unit reference | Weight kg |
|----------|----------------|-----------|---------|----------------|-----------|
| Auto | ZBY2115 | 0.001 | Reset | ZBY2323 | 0.001 |
| Down | ZBY2308 | 0.001 | Reverse | ZBY2306 | 0.001 |
| Forward | ZBY2305 | 0.001 | Right | ZBY2309 | 0.001 |
| Hand | ZBY2316 | 0.001 | Start | ZBY2303 | 0.001 |
| Inch | ZBY2321 | 0.001 | Stop | ZBY2304 | 0.001 |
| Left | ZBY2310 | 0.001 | Up | ZBY2307 | 0.001 |
| Off | ZBY2312 | 0.001 | O | ZBY2146 | 0.001 |
| On | ZBY2311 | 0.001 | I | ZBY2147 | 0.001 |
| Power on | ZBY2326 | 0.001 | O-I | ZBY2178 | 0.001 |

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

| Text | Sold in lots of | Unit reference | Weight kg |
|----------------|-----------------|----------------|-----------|
| Without legend | 10 | ZBZ 3 | 0.001 |



ZBY9330

Circular legends, yellow, for mushroom head push buttons

used for "Emergency stop" function (1)

| Conforming to standards | Diameter mm | Marking on yellow background | Unit reference | Weight kg |
|-------------------------------------|-------------|------------------------------|----------------|-----------|
| EN/IEC 60204-1 and EN/ISO 13850 (1) | 60 | – | ZBY9140 | 0.004 |
| | 90 | EMERGENCY STOP | ZBY9330 | 0.004 |
| – | | – | ZBY8140 | 0.008 |
| – | – | EMERGENCY STOP | ZBY8330 | 0.008 |



ZBY9360

used for "Emergency switching off" function

| Conforming to standard | Diameter mm | Marking on yellow background | Unit reference | Weight kg |
|------------------------|-------------|------------------------------|----------------|-----------|
| EN/IEC 60204-1 | 60 | – | ZBY9101 | 0.004 |
| | 90 | EMERGENCY SWITCHING OFF | ZBY9360 | 0.004 |
| – | | – | ZBY8101 | 0.008 |
| – | – | EMERGENCY SWITCHING OFF | ZBY8360 | 0.008 |

Nameplates, 30 x 40 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY42101 |
| White | Red | ZBY44101 |
| Black | Yellow | ZBY41101 |
| Black | White | ZBY45101 |




ZBY42101



ZBY62101

Nameplates, 30 x 50 mm, blank

| Text color | Background color | Unit reference |
|------------|------------------|----------------|
| White | Black | ZBY62101 |
| White | Red | ZBY64101 |
| Black | Yellow | ZBY61101 |
| Black | White | ZBY65101 |

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Harmony™ XB7 plastic 22 mm push buttons

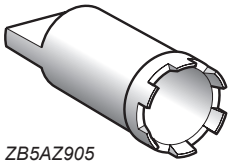
Monolithic push buttons, switches and pilot lights



ZB5AZ902



ZB5AZ901



ZB5AZ905



ZB5SZ3

Accessories

| Description | Color | Sold in lots of | Unit reference | Weight kg |
|--|-------|-----------------|----------------|-----------|
| Anti-rotation plate | – | 10 | ZB5AZ902 | 0.008 |
| Mounting nut | – | 10 | ZB5AZ901 | 0.002 |
| Mounting nut tightening tool | – | 1 | ZB5AZ905 | 0.016 |
| Plastic circular blanking plug (with mounting nut) | Black | 10 | ZB5SZ3 | 0.009 |

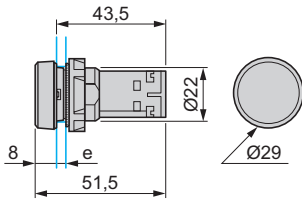
Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Dimensions

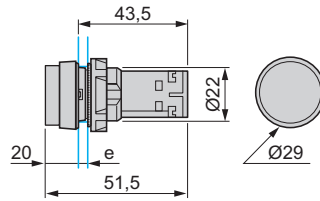
Push buttons, flush type

XB7NA●●●●, XB7NH●●



Push buttons, projecting type

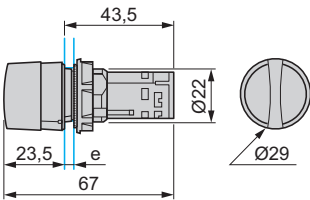
XB7NL●●●●



e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

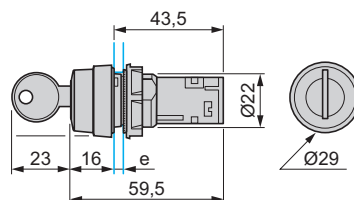
Selector switches, standard handle

XB7ND●●



Key switches

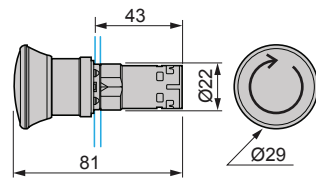
XB7NG●●



e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

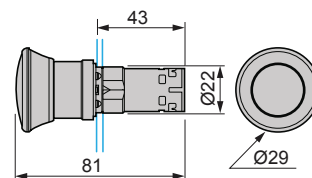
Emergency Stop push buttons (Turn to release)

XB7NS84●●



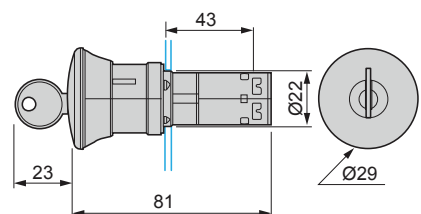
Emergency Stop push buttons (Push-pull)

XB7NT84●●



Emergency Stop push buttons with key

XB7NS94●●



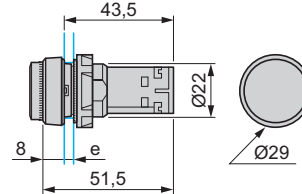
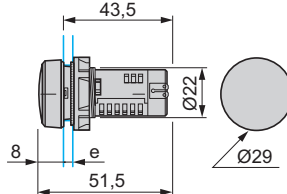
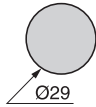
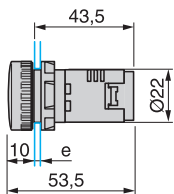
e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

Dimensions (continued)

Pilot lights with screw terminal
XB7EV●●●P

Pilot lights with Faston® terminal
XB7EV●●●P3

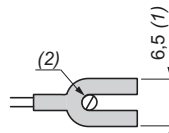
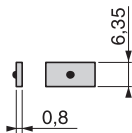
Illuminated push buttons
XB7NW●●●●, XB7NJ●●●●



e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

Faston clip connection (for pilot lights only)

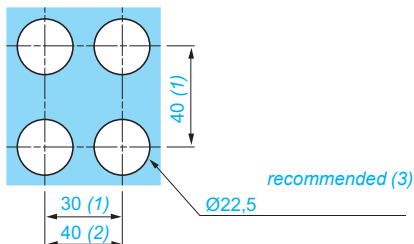
“U” type tag connection



(1) 6.5 recommended, 7 mm max.
(2) M3 screw clamp terminal.

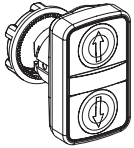
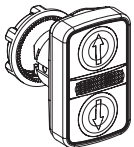

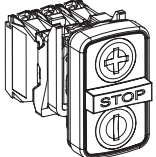
Mounting

Diameter of finished mounting holes

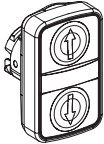



(1) Minimum value.
(2) 40 mm for Emergency Stop push buttons only.
(3) Standard value: Ø 22.3 (0; + 0.4).

Multiple head, spring return push button substitution table

| Product type | Old version | New version IP66 only | Notes | |
|--|--|-----------------------|--|--|
| Plastic head Double-headed push button  | ZB5 AA8112 | ZB5 AA7120 | | |
| | ZB5 AA8212 | ZB5 AA7121 | | |
| | ZB5 AA8134 | ZB5 AA7340 | | |
| | ZB5 AA8234 | ZB5 AA7341 | | |
| | ZB5 AL8334 | ZB5 AL7340 | | |
| | ZB5 AL8434 | ZB5 AL7341 | | |
| | ZB5 AL8312 | | equivalent: ZB5AL7340 or ZB5AA7120 | |
| | ZB5 AL8412 | | equivalent: ZB5AL7341 or ZB5AA7121 | |
| | | ZB5 AA79 | new function | |
| | ZB5 AA9112 | ZB5 AA7120 | | |
| | ZB5 AA9212 | ZB5 AA7121 | | |
| | ZB5 AA9134 | ZB5 AA7340 | | |
| | ZB5 AA9234 | ZB5 AA7341 | | |
| | ZB5 AL9334 | ZB5 AL7340 | | |
| | ZB5 AL9434 | ZB5 AL7341 | | |
| | ZB5 AL9312 | | equivalent: ZB5AL7340 or ZB5AA7120 | |
| | ZB5 AL9412 | | equivalent: ZB5AL7341 or ZB5AA7121 | |
| | | ZB5 AA79 | new function | |
| | Plastic head Double-headed push button + central pilot light  | ZB5 AW811723 | ZB5 AW7A1720 | |
| | | ZB5 AW821723 | ZB5 AW7A1721 | |
| ZB5 AW813743 | | ZB5 AW7A3740 | | |
| ZB5 AW823743 | | ZB5 AW7A3741 | | |
| ZB5 AW812743 | | | equivalent: ZB5AW7A3740 | |
| ZB5 AW822743 | | | equivalent: ZBAW77A3741 | |
| ZB5 AW833743 | | ZB5 AW7L3740 | | |
| ZB5 AW843743 | | ZB5 AW7L3741 | | |
| ZB5 AW831723 | | | equivalent: ZB5AW7L3740 or ZB5AW7A1720 | |
| ZB5 AW841723 | | | equivalent: ZB5AW7L3741 or ZB5AW7A1721 | |
| ZB5 AW832743 | | | equivalent: ZB5AW7L3740 | |
| ZB5 AW842743 | | | equivalent: ZB5AW7L3741 | |
| | | ZB5 AW7A1724 | new function | |
| | | ZB5 AW7A1715 | new function | |
| | ZB5 AW7A9 | new function | | |
| Plastic head Triple-headed push button  | | ZB5 AA73132 | new function | |
| | | ZB5 AA73133 | new function | |
| | | ZB5 AA73134 | new function | |
| | | ZB5 AA73135 | new function | |
| | | ZB5 AA71115 | new function | |
| | | ZB5 AA71123 | new function | |
| | | ZB5 AA71124 | new function | |
| | | ZB5 AA72124 | new function | |
| | | ZB5 AA791 | new function | |
| | Complete plastic bezel product  | XB5 AL845 | XB5 AL73415 | |
| | | XB5 AA731327 | new function | |
| | | XB5 AA711237 | new function | |
| XB5 AW84B5 | | XB5 AW73731B5 | | |
| XB5 AW84G5 | | XB5 AW73731G5 | | |
| XB5 AW84M5 | | XB5 AW73731M5 | | |
| XB5 AL945 | | XB5 AL73415 | | |

| Product type | Old version | New version | Notes |
|---|-------------|-------------|--------------|
| Silicone boot  | ZBW008 | ZBA710 | |
| | ZBW008F | ZBA708 | |
| | | ZBA709 | new function |

| Product type | Old version | New version IP66 only | Notes |
|--|-------------|-----------------------|------------------------------------|
| Metal head Double-headed push button  | ZB4 BA8112 | ZB4 BA7120 | |
| | ZB4 BA8212 | ZB4 BA7121 | |
| | ZB4 BA8134 | ZB4 BA7340 | |
| | ZB4 BA8234 | ZB4 BA7341 | |
| | ZB4 BL8334 | ZB4 BL7340 | |
| | ZB4 BL8434 | ZB4 BL7341 | |
| | ZB4 BL8312 | | equivalent: ZB4BL7340 or ZB4BA7120 |
| | ZB4 BL8412 | | equivalent: ZB4BL7341 or ZB4BA7121 |
| | | ZB4 BA79 | new function |
| | ZB4 BA9112 | ZB4 BA7120 | |
| | ZB4 BA9212 | ZB4 BA7121 | |
| | ZB4 BA9134 | ZB4 BA7340 | |
| | ZB4 BA9234 | ZB4 BA7341 | |
| | ZB4 BL9334 | ZB4 BL7340 | |
| | ZB4 BL9434 | ZB4 BL7341 | |
| | ZB4 BL9312 | | equivalent: ZB4BL7340 or ZB4BA7120 |
| | ZB4 BL9412 | | equivalent: ZB4BL7341 or ZB4BA7121 |
| | | ZB4 BA79 | new function |

| | | | |
|--|--------------|--------------|--|
| Metal head Double-headed push button + central pilot light  | ZB4 BW811723 | ZB4 BW7A1720 | |
| | ZB4 BW821723 | ZB4 BW7A1721 | |
| | ZB4 BW813743 | ZB4 BW7A3740 | |
| | ZB4 BW823743 | ZB4 BW7A3741 | |
| | ZB4 BW812743 | | equivalent: ZB4BW7A3740 |
| | ZB4 BW822743 | | equivalent: ZB4BW7A3741 |
| | ZB4 BW833743 | ZB4 BW7L3740 | |
| | ZB4 BW843743 | ZB4 BW7L3741 | |
| | ZB4 BW831723 | | equivalent: ZB4 BW7L3740 or ZB4 BW7A1720 |
| | ZB4 BW841723 | | equivalent: ZB4 BW7L3741 or ZB4 BW7A1721 |
| | ZB4 BW832743 | | equivalent: ZB4BW7L3740 |
| | ZB4 BW842743 | | equivalent: ZB4 BW7L3741 |
| | | ZB4 BW7A1724 | new function |
| | ZB4 BW7A1715 | new function | |
| | ZB4 BW7A9 | new function | |

| | | | |
|--|--|-------------|--------------|
| Metal head Triple-headed push button  | | ZB4 BA73132 | new function |
| | | ZB4 BA73133 | new function |
| | | ZB4 BA73134 | new function |
| | | ZB4 BA73135 | new function |
| | | ZB4 BA71115 | new function |
| | | ZB4 BA71123 | new function |
| | | ZB4 BA71124 | new function |
| | | ZB4 BA72124 | new function |
| | | ZB4 BA791 | new function |

| | | | |
|--|------------|---------------|--------------|
| Complete metal bezel product  | XB4 BL845 | XB4 BL73415 | |
| | | XB4 BA731327 | new function |
| | | XB4 BA711237 | new function |
| | XB4 BW84B5 | XB4 BW73731B5 | |
| | XB4 BW84G5 | XB4 BW73731G5 | |
| | XB4 BW84M5 | XB4 BW73731M5 | |
| | XB4 BL945 | XB4 BL73415 | |

| | | | | | | | | | |
|-------------|---------|------------|----|--------------|-----|------------|-----|--------------|---------|
| AF1 | | | | | | | | | |
| AF1VB510 | 69, 145 | XB4BK124B5 | 42 | XB4BW3435 | 31 | XB5AK135B5 | 116 | XB5AW35B5 | 103 |
| AF1XA1 | 69, 145 | XB4BK124G5 | 42 | XB4BW3445 | 31 | XB5AK135G5 | 116 | XB5AW35G5 | 103 |
| APE | | XB4BK124M5 | 42 | XB4BW3465 | 31 | XB5AK135M5 | 116 | XB5AW35M5 | 103 |
| APE1C2150 | 53, 127 | XB4BK125B5 | 42 | XB4BW34G5 | 29 | XB5AL42 | 100 | XB5AW36B5 | 103 |
| APE1C2250 | 53, 127 | XB4BK125G5 | 42 | XB4BW34M5 | 29 | XB5AL4322 | 102 | XB5AW36G5 | 103 |
| APE1PRE21 | 53, 127 | XB4BK125M5 | 42 | XB4BW3535 | 31 | XB5AL73415 | 106 | XB5AW36M5 | 103 |
| DL1 | | XB4BK133B5 | 42 | XB4BW3545 | 31 | XB5AL84101 | 120 | XB5AW73731B5 | 106 |
| DL1CB006 | 70, 146 | XB4BK133G5 | 42 | XB4BW3565 | 31 | XB5AL84201 | 120 | XB5AW73731G5 | 106 |
| DL1CD0061 | 70, 146 | XB4BK133M5 | 42 | XB4BW35B5 | 29 | XB5AP21 | 101 | XB5AW73731M5 | 106 |
| DL1CD0063 | 70, 146 | XB4BK134B5 | 42 | XB4BW35G5 | 29 | XB5AP31 | 101 | XB5DSB | 46, 120 |
| DL1CD0064 | 70, 146 | XB4BK134G5 | 42 | XB4BW35M5 | 29 | XB5AP42 | 101 | XB5DSG | 46, 120 |
| DL1CD0065 | 70, 146 | XB4BK134M5 | 42 | XB4BW36B5 | 29 | XB5AP51 | 101 | XB5DSM | 46, 120 |
| DL1CD0066 | 70, 146 | XB4BK135B5 | 42 | XB4BW36G5 | 29 | XB5AP61 | 101 | XB5DT1S | 46, 120 |
| DL1CE024 | 70, 146 | XB4BK135G5 | 42 | XB4BW36M5 | 29 | XB5AS142 | 111 | XB5KSB | 46, 120 |
| DL1CE130 | 70, 146 | XB4BK135M5 | 42 | XB4BW73731B5 | 32 | XB5AS542 | 111 | XB5KSG | 46, 120 |
| DL1CF110 | 70, 146 | XB4BL42 | 26 | XB4BW73731G5 | 32 | XB5AS8444 | 110 | XB5KSM | 46, 120 |
| DL1CF220 | 70, 146 | XB4BL4322 | 28 | XB4BW73731M5 | 32 | XB5AS8445 | 110 | XB5KSM | 120 |
| DL1CJ0241 | 70, 146 | XB4BL73415 | 32 | XB4RFA02 | 183 | XB5AS9445 | 110 | XB5RFA02 | 183 |
| DL1CJ0243 | 70, 146 | XB4BP21 | 27 | XB4RFB01 | 183 | XB5AT42 | 111 | XB5RFB01 | 183 |
| DL1CJ0244 | 70, 146 | XB4BP31 | 27 | XB5 | | XB5AT845 | 110 | XB5RMA04 | 183 |
| DL1CJ0244 | 70, 146 | XB4BP42 | 27 | XB5AA11 | 98 | XB5AV31 | 119 | XB5RMB03 | 183 |
| DL1CJ0245 | 70, 146 | XB4BP51 | 27 | XB5AA21 | 98 | XB5AV33 | 119 | XB5S1B2L2 | 167 |
| DL1CJ0246 | 70, 146 | XB4BP61 | 27 | XB5AA31 | 98 | XB5AV34 | 119 | XB5S1B2M12 | 167 |
| DL1CJ0483 | 70, 146 | XB4BS142 | 37 | XB5AA3311 | 102 | XB5AV35 | 119 | XB5S2B2L2 | 167 |
| DL1CJ0484 | 70, 146 | XB4BS542 | 37 | XB5AA3341 | 102 | XB5AV41 | 119 | XB5S2B2M12 | 167 |
| DL1CJ0485 | 70, 146 | XB4BS8444 | 36 | XB5AA3351 | 102 | XB5AV43 | 119 | XB5S3B2L2 | 167 |
| DX1 | | XB4BS84441 | 36 | XB5AA42 | 98 | XB5AV44 | 119 | XB5S3B2M12 | 167 |
| DX1AP52 | 69, 145 | XB4BS8445 | 36 | XB5AA4322 | 102 | XB5AV45 | 119 | XB5S4B2L2 | 167 |
| XAL | | XB4BS9445 | 36 | XB5AA51 | 98 | XB5AV5B1 | 119 | XB5S4B2M12 | 167 |
| XALD01 | 185 | XB4BT42 | 37 | XB5AA61 | 98 | XB5AV5B3 | 119 | XB5S5B2L2 | 167 |
| XALD02 | 185 | XB4BT845 | 36 | XB5AA711237 | 107 | XB5AV5B4 | 119 | XB5SFFUSBEXT | 167 |
| XB4 | | XB4BV31 | 45 | XB5AA731327 | 107 | XB5AV5B5 | 119 | XB7 | |
| XB4BA11 | 26 | XB4BV33 | 45 | XB5AA801 | 120 | XB5AV5B6 | 119 | XB7EV03BP | 199 |
| XB4BA21 | 26 | XB4BV34 | 45 | XB5AA802 | 120 | XB5AV61 | 119 | XB7EV03GP | 199 |
| XB4BA31 | 26 | XB4BV35 | 45 | XB5AA831 | 120 | XB5AV63 | 119 | XB7EV03MP | 199 |
| XB4BA3311 | 28 | XB4BV41 | 45 | XB5AA832 | 120 | XB5AV64 | 119 | XB7EV04BP | 199 |
| XB4BA3341 | 28 | XB4BV43 | 45 | XB5AA841 | 120 | XB5AV65 | 119 | XB7EV04GP | 199 |
| XB4BA3351 | 28 | XB4BV44 | 45 | XB5AA84101 | 120 | XB5AVB1 | 118 | XB7EV04MP | 199 |
| XB4BA42 | 26 | XB4BV45 | 45 | XB5AA842 | 120 | XB5AVB3 | 118 | XB7EV05BP | 199 |
| XB4BA4322 | 28 | XB4BV5B1 | 45 | XB5AA84201 | 120 | XB5AVB4 | 118 | XB7EV05GP | 199 |
| XB4BA51 | 26 | XB4BV5B3 | 45 | XB5AA861 | 120 | XB5AVB5 | 118 | XB7EV05MP | 199 |
| XB4BA61 | 26 | XB4BV5B4 | 45 | XB5AA86102 | 120 | XB5AVB6 | 118 | XB7EV06BP | 199 |
| XB4BA711237 | 33 | XB4BV5B5 | 45 | XB5AA862 | 120 | XB5AVG1 | 118 | XB7EV06GP | 199 |
| XB4BA731327 | 33 | XB4BV5B6 | 45 | XB5AA86202 | 120 | XB5AVG3 | 118 | XB7EV06MP | 199 |
| XB4BA821 | 46 | XB4BV61 | 45 | XB5AC21 | 108 | XB5AVG4 | 118 | XB7EV07BP | 199 |
| XB4BA822 | 46 | XB4BV63 | 45 | XB5AD21 | 113 | XB5AVG5 | 118 | XB7EV07GP | 199 |
| XB4BA841 | 46 | XB4BV64 | 45 | XB5AD25 | 113 | XB5AVG6 | 118 | XB7EV07MP | 199 |
| XB4BA842 | 46 | XB4BV65 | 45 | XB5AD33 | 113 | XB5AVM1 | 118 | XB7EV08BP | 199 |
| XB4BA861 | 46 | XB4VB1 | 44 | XB5AD41 | 113 | XB5AVM3 | 118 | XB7EV08GP | 199 |
| XB4BA862 | 46 | XB4VB3 | 44 | XB5AD53 | 113 | XB5AVM4 | 118 | XB7EV08MP | 199 |
| XB4BA921 | 46 | XB4VB4 | 44 | XB5AG03 | 114 | XB5AVM5 | 118 | XB7NA11 | 197 |
| XB4BA922 | 46 | XB4VB5 | 44 | XB5AG21 | 114 | XB5AVM6 | 118 | XB7NA11341 | 198 |
| XB4BA941 | 46 | XB4VB6 | 44 | XB5AG33 | 114 | XB5AW3135 | 105 | XB7NA11343 | 198 |
| XB4BA942 | 46 | XB4VG1 | 44 | XB5AG41 | 114 | XB5AW3145 | 105 | XB7NA15 | 197 |
| XB4BA961 | 46 | XB4VG3 | 44 | XB5AG61 | 114 | XB5AW3165 | 105 | XB7NA15341 | 198 |
| XB4BA962 | 46 | XB4VG4 | 44 | XB5AJ21 | 113 | XB5AW31B5 | 103 | XB7NA15343 | 198 |
| XB4BC21 | 34 | XB4VG5 | 44 | XB5AJ33 | 113 | XB5AW31G5 | 103 | XB7NA21 | 197 |
| XB4BD21 | 38 | XB4VG6 | 44 | XB5AJ53 | 113 | XB5AW31M5 | 103 | XB7NA21341 | 198 |
| XB4BD25 | 38 | XB4BVM1 | 44 | XB5AK123B5 | 116 | XB5AW3335 | 105 | XB7NA21343 | 198 |
| XB4BD33 | 38 | XB4BVM3 | 44 | XB5AK123G5 | 116 | XB5AW3345 | 105 | XB7NA23 | 197 |
| XB4BD41 | 38 | XB4BVM4 | 44 | XB5AK123M5 | 116 | XB5AW3365 | 105 | XB7NA25 | 197 |
| XB4BD53 | 38 | XB4BVM5 | 44 | XB5AK124B5 | 116 | XB5AW33B5 | 103 | XB7NA25341 | 198 |
| XB4BG03 | 40 | XB4BVM6 | 44 | XB5AK124G5 | 116 | XB5AW33G5 | 103 | XB7NA25343 | 198 |
| XB4BG21 | 40 | XB4BW3135 | 31 | XB5AK124M5 | 116 | XB5AW33M5 | 103 | XB7NA31 | 197 |
| XB4BG33 | 40 | XB4BW3145 | 31 | XB5AK125B5 | 116 | XB5AW3435 | 105 | XB7NA3131 | 198 |
| XB4BG41 | 40 | XB4BW3165 | 31 | XB5AK125G5 | 116 | XB5AW3445 | 105 | XB7NA3133 | 198 |
| XB4BG61 | 40 | XB4BW31B5 | 29 | XB5AK125M5 | 116 | XB5AW3465 | 105 | XB7NA3136 | 198 |
| XB4BJ21 | 39 | XB4BW31M5 | 29 | XB5AK133B5 | 116 | XB5AW34B5 | 103 | XB7NA33 | 197 |
| XB4BJ33 | 39 | XB4BW3335 | 31 | XB5AK133G5 | 116 | XB5AW34G5 | 103 | XB7NA3331 | 198 |
| XB4BJ53 | 39 | XB4BW3345 | 31 | XB5AK133M5 | 116 | XB5AW34M5 | 103 | XB7NA3333 | 198 |
| XB4BK123B5 | 42 | XB4BW3365 | 31 | XB5AK134B5 | 116 | XB5AW3535 | 105 | XB7NA3336 | 198 |
| XB4BK123G5 | 42 | XB4BW33G5 | 29 | XB5AK134G5 | 116 | XB5AW3545 | 105 | XB7NA35 | 197 |
| XB4BK123M5 | 42 | XB4BW33M5 | 29 | XB5AK134M5 | 116 | XB5AW3565 | 105 | XB7NA42 | 197 |

| | | | | | | | | | |
|-----------|-----|------------|---------|--------------|----|-----------|----|-----------|----|
| XB7NA4232 | 198 | XB7NW38B1 | 199 | ZB4BA73134 | 33 | ZB4BJ397 | 39 | ZB4BP583 | 27 |
| XB7NA4234 | 198 | XB7NW38G1 | 199 | ZB4BA73135 | 33 | ZB4BJ4 | 39 | ZB4BP5S | 27 |
| XB7NA44 | 197 | XB7NW38M1 | 199 | ZB4BA7340 | 32 | ZB4BJ491 | 39 | ZB4BP6 | 27 |
| XB7NA45 | 197 | XBF | | ZB4BA7341 | 32 | ZB4BJ5 | 39 | ZB4BP68 | 27 |
| XB7NA4532 | 198 | XBFX13 | 70, 146 | ZB4BA79 | 32 | ZB4BJ593 | 39 | ZB4BP683 | 27 |
| XB7NA4534 | 198 | XD4 | | ZB4BA791 | 33 | ZB4BJ7 | 39 | ZB4BP6S | 27 |
| XB7NA65 | 197 | XD4PA12 | 47 | ZB4BA8 | 26 | ZB4BJ792 | 39 | ZB4BPA1 | 27 |
| XB7NA81 | 197 | XD4PA14 | 47 | ZB4BA9 | 26 | ZB4BJ793 | 39 | ZB4BPA2 | 27 |
| XB7NA85 | 197 | XD4PA22 | 47 | ZB4BB2 | 47 | ZB4BJ796 | 39 | ZB4BPA3 | 27 |
| XB7ND21 | 200 | XD4PA24 | 47 | ZB4BB4 | 47 | ZB4BJ8 | 39 | ZB4BPA4 | 27 |
| XB7ND25 | 200 | XD5 | | ZB4BC2 | 34 | ZB4BJ891 | 39 | ZB4BPA5 | 27 |
| XB7ND33 | 200 | XD5PA12 | 121 | ZB4BC24 | 34 | ZB4BJ893 | 39 | ZB4BPA6 | 27 |
| XB7NG21 | 200 | XD5PA14 | 121 | ZB4BC3 | 34 | ZB4BJ895 | 39 | ZB4BR2 | 34 |
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