



## Main

Range of Product	Telemecanique Photoelectric sensors XU
Series name	Application food and beverage multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Multimode
Material	Stainless steel
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring Technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product Specific Application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	9.84 Ft (3 m) polarised reflex need reflector XUZC50 65.62 Ft (20 m) thru beam need a transmitter XUB0SKSNM12T 0.39 Ft (0.12 m) diffuse with background suppression 0.98 ft (0.3 m) diffuse

## Complementary

Enclosure Material	Stainless steel : 304 CU
Lens material	PMMA
Maximum sensing distance	0.39 Ft (0.12 m) diffuse with background suppression 1.31 Ft (0.4 m) diffuse 98.43 Ft (30 m) thru beam 14.76 ft (4.5 m) polarised reflex
Output Type	Solid state
Status LED	1 LED green)output state 1 LED red)supply on 1 LED yellow)stability
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Supply voltage limits	10...36 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection)
Switching frequency	<= 250 Hz
Maximum voltage drop	<1.5 V closed state)
Current consumption	35 mA no-load
Maximum delay first up	200 ms
Maximum delay response	2 ms
Maximum delay recovery	2 ms
Setting-up	Self-training
Diameter	0.71 in (18 mm)
Length	3.07 in (78 mm)
Net Weight	0.12 lb(US) (0.055 kg)

## Environment

Product Certifications	CSA UL CE
Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP65 double insulation IEC 60529 IP67 double insulation IEC 60529 IP69K double insulation DIN 40050

## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389119010443
Nbr. of units in pkg.	1
Package weight(Lbs)	2.57 oz (73.0 g)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.73 in (4.4 cm)
Package 1 width	2.60 in (6.6 cm)
Package 1 Length	3.62 in (9.2 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Weight	3.95 lb(US) (1.79 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

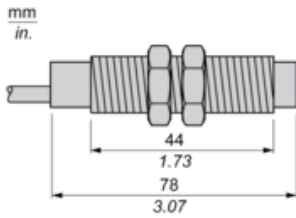
## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

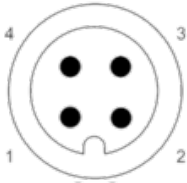
Warranty	18 months
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Dimensions



## Wiring Schemes

### M12 Connector



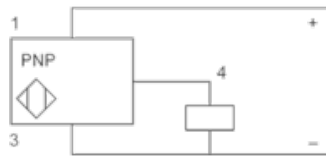
3 : (-)

1 : (+)

4 : OUT/Output

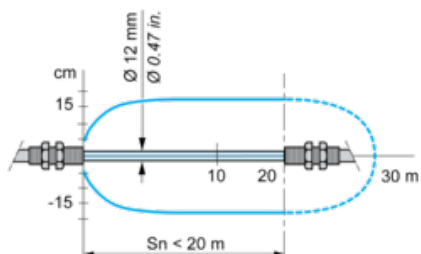
2 : Not connected

### PNP

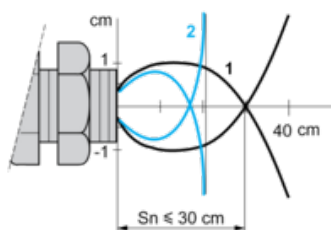


Detection Curves

With Thru-beam Accessory (Thru-beam)

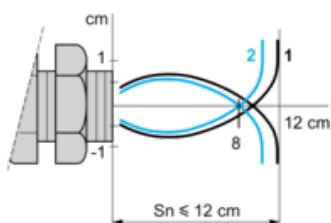


Without Accessory (Diffuse)



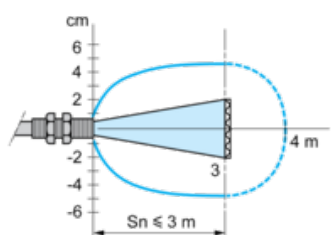
- 1 : White 90%
- 2 : Grey 18%
- Object: 10 x 10 cm

Without Accessory (Diffuse with Background. Suppression)



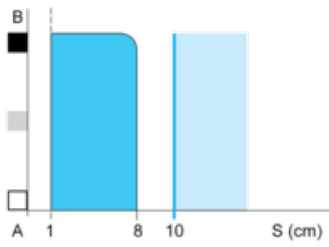
- 1 : White 90%
- 2 : Grey 18%
- Object: 10 x 10 cm

With Reflector XUZC50 (Polarised Reflex)

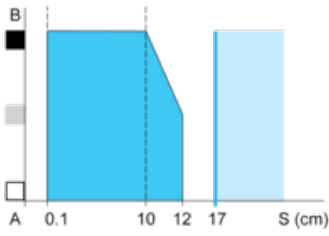


Variation of Usable Sensing Distance  $S_u$  (Without Accessory, with Adjustable Background Suppression)

Teach mode at minimum



Teach mode at maximum



- (1) Black
- (2) Grey
- (3) White
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)