

Channel ACTION ALERT!

OMRON
INDUSTRIAL AUTOMATION

NO: TI-037
DATE: June 2011

PRODUCT: H3DE Analog Set Timers
TYPE: Discontinuation Update

H3DE Analog Set Timers to be Discontinued Immediately; Use H3DK Series Instead

Effective immediately, Omron will discontinue the 22.5 wide track mount H3DE series of analog-set timers. This is earlier than the original October 2011 date communicated in January. The H3DK series replaces H3DE with no change in overall dimensions, but a different shape and settings layout. The AC/DC voltage models of H3DE-H have been consolidated to streamline the product offering.



Product Discontinuation and Recommended Replacement

| Timer type | Product discontinuation | | Recommended replacement |
|--------------------------------|-------------------------|--------------|-------------------------|
| | Model | | Model |
| Multi-function timer (8 modes) | H3DE-M1 | | H3DK-M1 |
| | H3DE-M2 | | H3DK-M2 |
| Multi-function timer (4 modes) | H3DE-S1 | | H3DK-S1 |
| | H3DE-S2 | | H3DK-S2 |
| Twin timer | H3DE-F | | H3DK-F |
| Star-delta timer | H3DE-G | | H3DK-G |
| Power OFF-delay timer | H3DE-H | AC/DC24V S | H3DK-HBS |
| | | AC/DC48V S | |
| | | AC/DC24V L | H3DK-HBL |
| | | AC/DC48V L | |
| | | AC100-120V S | H3DK-HCS |
| | | AC100-120V L | H3DK-HCL |
| | | AC200-230V S | H3DK-HDS |
| AC200-230V L | H3DK-HDL | | |

Reference Documentation

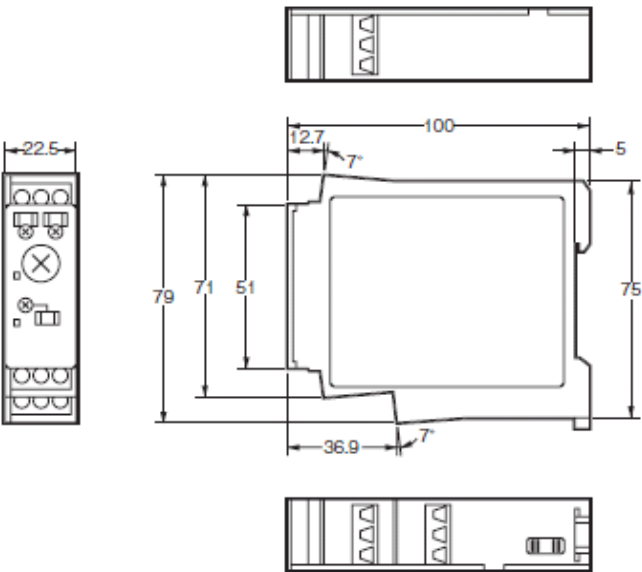
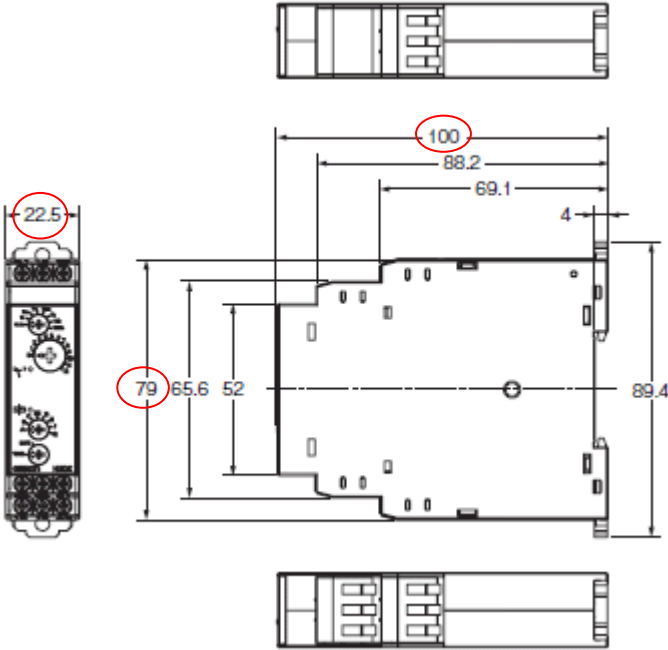
[H3DE Timers data sheet](#)

[H3DK Timers data sheet](#)

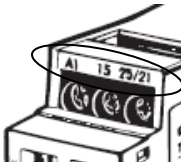
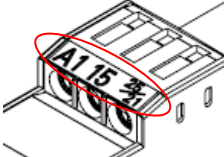
Body Color

| Product discontinuation | Recommended replacement |
|--------------------------------|-------------------------|
| There is no change body color. | |

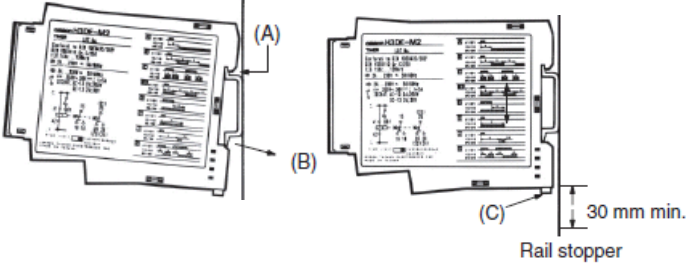
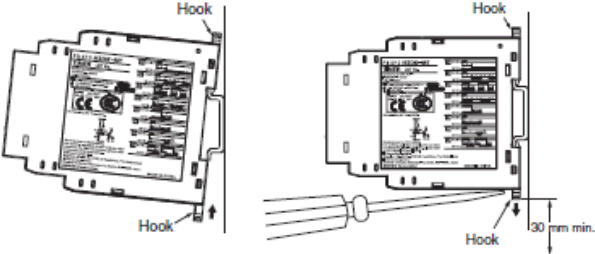
Dimensions (Unit: mm)

| Product discontinuation | Recommended replacement |
|---|--|
|  | <p>Except circled dimension, change the shape and dimensions.</p>  |

Wire Connection

| Product discontinuation | Recommended replacement |
|---|--|
| <p>Display terminal number Printing</p>  | <p>Label (There is no change Terminal arrangement/Wired)</p>  |

Mounting Dimensions

| Product discontinuation | Recommended replacement |
|--|--|
| <p>It will be easier to mount and dismount the Timer if a distance of 30 mm or more is provided between the bottom of the Timer and other equipment.</p>  <p>Mounting When mounting the H3DE on a socket mounting track, hook portion (A) of the Timer to an edge of the track first, and then depress the Timer in the direction of (B).</p> <p>Removing The H3DE can be mounted and dismounted with ease if a distance of 30 mm or more is kept between the H3DE and the top surface of other equipment located below the H3DE.</p> | <p>It will be easier to mount and dismount the Timer if a distance of 30 mm or more is provided between the bottom of the Timer and other equipment. (Changed method of mounting and removing. Please see follow.)</p>  <p>Mounting When mounting the Timer on a mounting Track, loosen the two hooks, press the Timer onto the Track, and then insert the hooks.</p> <p>Removing When removing the Timer, pull out the two hooks, and then remove the Timer from the Track.</p> |

Characteristics

| Product discontinuation | Recommended replacement |
|---|---|
| Time Ranges Model H3DE-M1/M2/S1/S2 Time range setting(Full Scale) 1.2s, 12s, 1.2min, 12min, 1.2h, 12h, 120h | Model H3DK-M1/M2/S1/S2 Time range setting(Full Scale) 1.2s, 12s, 120s , 12min, 120min , 12h, 120h, 1200h |
| Model H3DE-F Time range setting(Full Scale) 1.2s, 12s, 120s, 1.2min, 12min, 1.2h, 12h | Model H3DK-F Time range setting(Full Scale) 1.2s, 12s, 120s, 12min, 120min , 12h, 120h , 1200h |
| Power supply voltage Model H3DE-M1/M2/S1/S2/F/G 24 to 230 VAC/DC, 50/60 Hz | Model H3DK-M1/M2/S1/S2/F/G 24 to 240 VAC/DC, 50/60 Hz |
| Model H3DE-H 24 VAC/VDC, 50/60 Hz 48 VAC/VDC, 50/60 Hz 100 to 120 VAC, 50/60 Hz 200 to 230 VAC, 50/60 Hz | Model H3DK-H 24 to 48 VAC/DC, 50/60 Hz (24VAC/DC and 48VAC/DC uniform) 100 to 120 VAC, 50/60 Hz 200 to 240 VAC, 50/60 Hz |
| Power consumption Model H3DE-M1 At 230 VAC: 4.3 VA max. At 24 VDC: 0.7 W max. Model H3DE-S1 At 230 VAC: 2.7 VA max. At 24 VDC: 0.7 W max. | Model H3DK-M1/S1 At 240 VAC: 4.5 VA max. At 24 VDC: 1.1 W max. |
| Model H3DE-M2 At 230 VAC: 4.8 VA max. At 24 VDC: 1.0 W max. Model H3DE-S2 At 230 VAC: 3.2 VA max. At 24 VDC: 1.0 W max. | Model H3DK-M2/S2 At 240 VAC: 6.6 VA max. At 24 VDC : 1.2W max. |
| Model H3DE-F At 230 VAC: 3.1VA max. At 24 VDC: 0.8W max. | Model H3DK-F At 240 VAC : 4.5VA max. At 24 VDC : 1.1W max. |
| Model H3DE-G At 230 VAC: 3VA max. At 24 VDC: 0.8W max. | Model H3DK-G At 240 VAC : 6.6VA max. At 24 VDC : 1.2W max. |
| Power consumption Model H3DE-H(24 VAC/VDC) At 24 VAC : 0.3VA max. At 24 VDC : 0.2W max. Model H3DE-H(48 VAC/VDC) At 48 VAC : 0.5VA max. At 48 VDC : 0.5W max. | Model H3DK-HBS/HBL(24 to 48 VAC/DC) At 48 VAC : 1.2VA max. At 24 VDC : 1.2W max. |
| Model H3DE-H(100 to 120 VAC) At 120 VAC : 0.8VA max. | Model H3DK-HCS/HCL(100 to 120 VAC) At 120 VAC : 11.7VA max. |
| Model H3DE-H(200 to 230 VAC) At 230 VAC : 1.6VA max. | Model H3DK-HDS/HDL(200 to 240 VAC) At 240 VAC : 29.5VA max. |

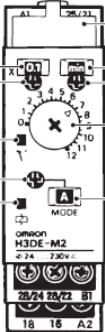
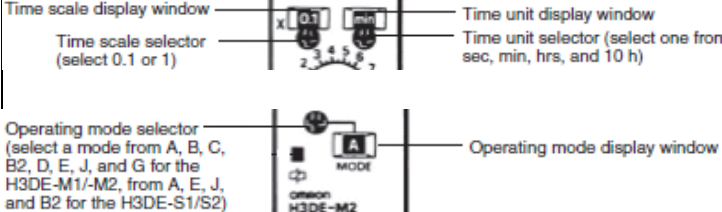
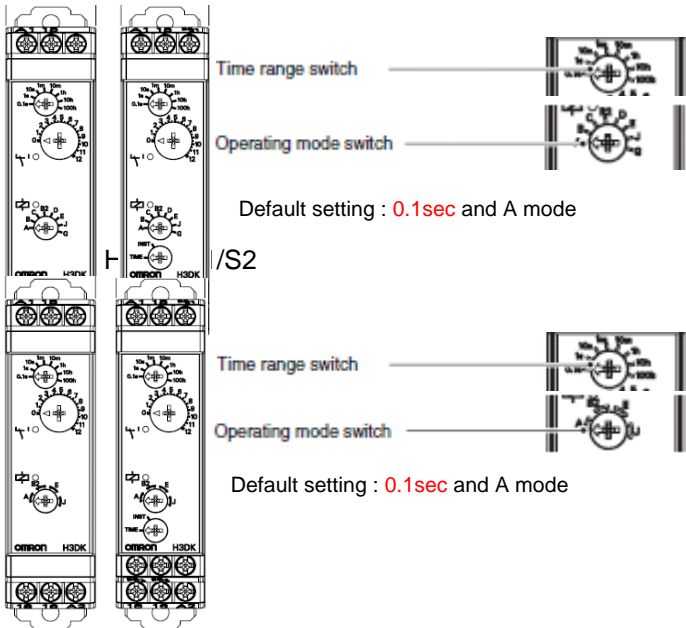
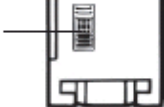

Characteristics continued

| Product discontinuation | Recommended replacement |
|--|-------------------------|
| Ambient operating temperature -10 to 55°C | -20 to 55°C |
| Storage temperature -25 to 65°C | -40 to 70°C |
| Ambient operating humidity 35% to 85% | 25% to 85% |

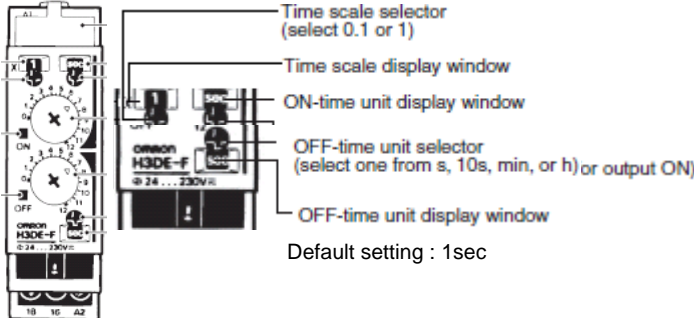
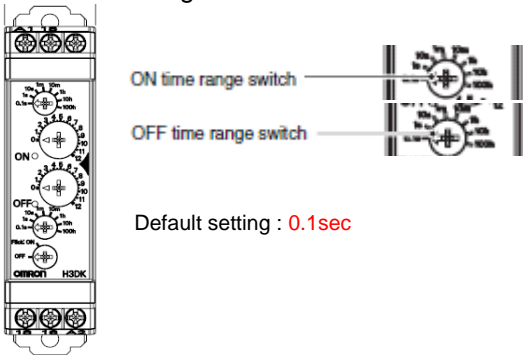
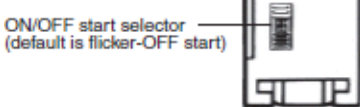

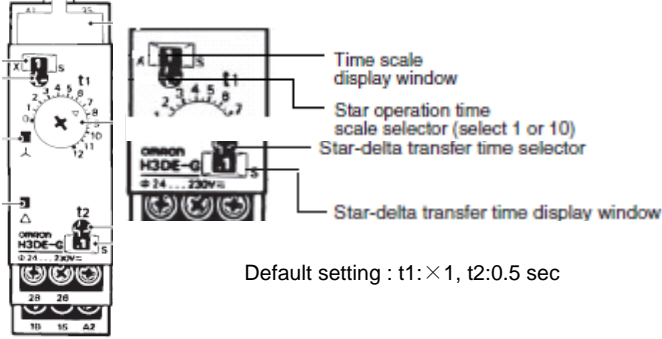
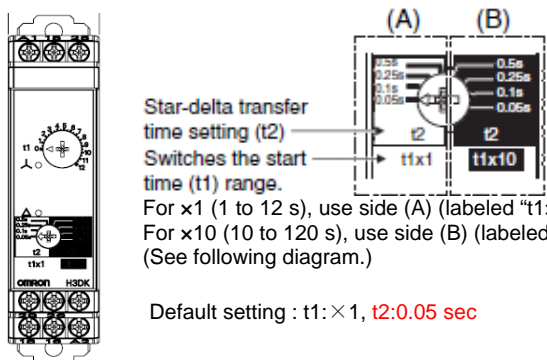
Operation Ratings

| Product discontinuation | Recommended replacement |
|---------------------------------------|-------------------------|
| There is no change operation ratings. | |

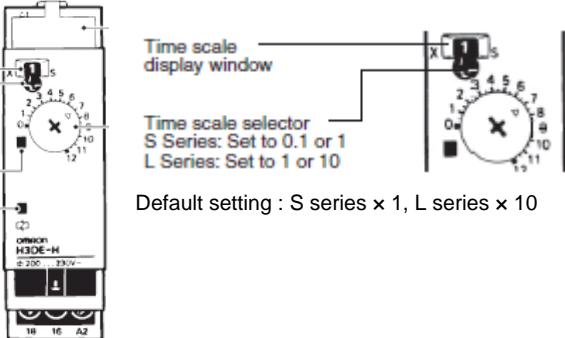
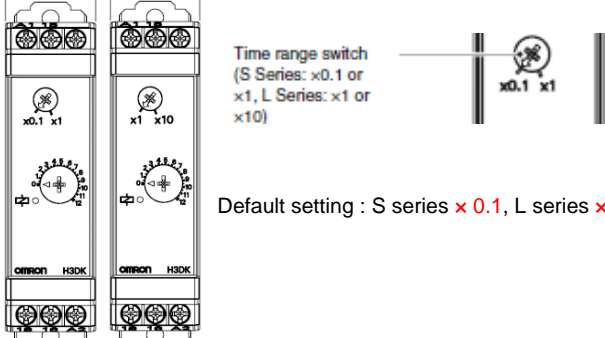
Operation Methods

| Product discontinuation | Recommended replacement |
|---|--|
| <p>Nomenclature Model H3DE-M1/M2/S1/S2 The setting of time and operating mode select switch Select switch: Time scale/Time unit/Operating mode Method of setting: Switch and display window</p>  <p>Default setting : 1sec and A mode</p>  | <p>Model H3DK-M1/M2/S1/S2 Select switch: Time range(unit)/Operating mode Method of setting: Switch with the arrow Model H3DK-M1/M2</p>  <p>Default setting : 0.1sec and A mode</p> <p>/S2</p> <p>Default setting : 0.1sec and A mode</p> |
| <p>Output type select switch Method of setting: (Bottom)Select switch (Slide type)</p>  <p>Output type selector switch for H3DE-M2/-S2 (default setting is time-limit output)</p> | <p>Method of setting: (Front) Select switch (Rotary type by the driver)</p>  <p>INIT/TIME switch for relay R2 (Default setting is for time-limit output.)*</p> |


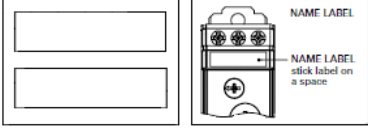
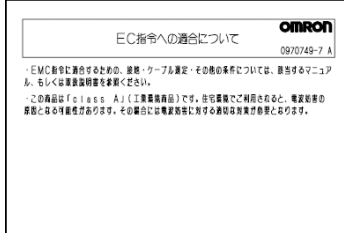
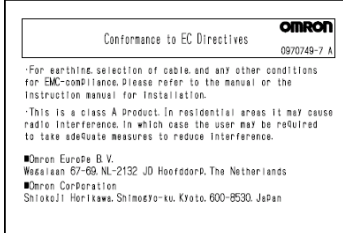
Operation Methods continued

| Product discontinuation | Recommended replacement |
|--|--|
| <p>Nomenclature Model H3DE-F The setting of time select switch Select switch: Time scale / Time unit (Sets the ON time and Off time) Method of setting: Switch and display window</p>  <p>Time scale selector (select 0.1 or 1) Time scale display window ON-time unit display window OFF-time unit selector (select one from s, 10s, min, or h) or output ON) OFF-time unit display window Default setting : 1sec</p> | <p>Model H3DK-F Select switch: Time range(unit) (Sets the ON time and Off time) Method of setting: Switch with the arrow</p>  <p>ON time range switch OFF time range switch Default setting : 0.1sec</p> |
| <p>ON/OFF start select switch Method of setting: (Bottom) Select switch (Slide type)</p>  <p>ON/OFF start selector (default is flicker-OFF start)</p> | <p>Method of setting: (Front) Select switch (Rotary type by the driver)</p>  <p>ON/OFF start switch (Default setting is for an OFF start.)</p> |
| <p>Model H3DE-G The setting of time select switch Select switch: Time scale /Star-delta transfer time Method of setting: Switch and display window</p>  <p>Time scale display window Star operation time scale selector (select 1 or 10) Star-delta transfer time selector Star-delta transfer time display window Default setting : t1:×1, t2:0.5 sec</p> | <p>Model H3DK-G Select switch: Time ranges(Please see follow) Method of setting: Switch with the arrow</p>  <p>Star-delta transfer time setting (t2) Switches the start time (t1) range. For ×1 (1 to 12 s), use side (A) (labeled "t1×1"). For ×10 (10 to 120 s), use side (B) (labeled "t10×1"). (See following diagram.) Default setting : t1:×1, t2:0.05 sec</p> |

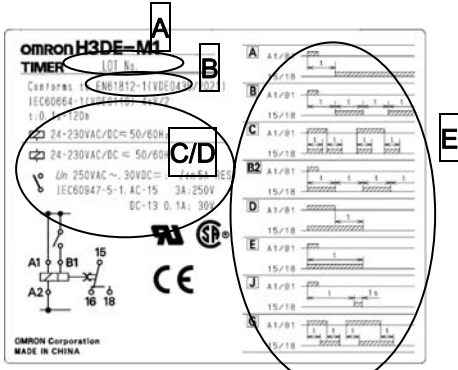
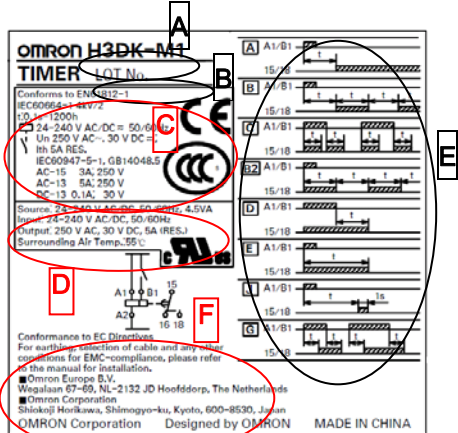
Operation Methods continued

| Product discontinuation | Recommended replacement |
|--|--|
| <p>Nomenclature Model H3DE-H The setting of time select switch Select switch: Time scale Method of setting: Switch and display window</p>  <p>Time scale display window</p> <p>Time scale selector S Series: Set to 0.1 or 1 L Series: Set to 1 or 10</p> <p>Default setting : S series x 1, L series x 10</p> | <p>Model H3DK-H□S/ H□L</p> <p>Select switch: Time range(unit) Method of setting: Switch with the arrow</p>  <p>Time range switch (S Series: x0.1 or x1, L Series: x1 or x10)</p> <p>Default setting : S series x 0.1, L series x 1</p> |

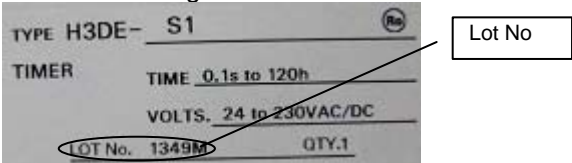

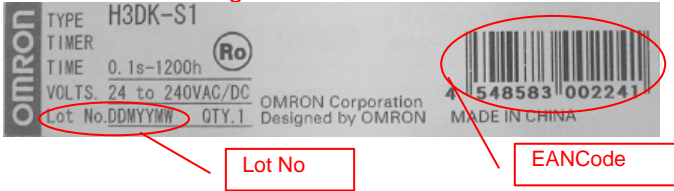

Accessory

| Product discontinuation | Recommended replacement |
|--|--|
| <p>Nameplate</p>  <p>Nameplate for user use (20 x 5.4 mm white panel)</p> | <p>Change from a nameplate to a name label.</p>  |
| <p>Handbill Along with the renewal of the demand of EMC Directive, explanatory leaflet listed assembly, installation, maintenance and other demands of products have added. Size of handbill: B8 (64mmX91mm)</p> <p>Japanese notation</p>  <p>English notation</p>  | <p>Information in this handbill now appears on the body label. (Please see next section "Body Label")</p> |

Label

| Product discontinuation | Recommended replacement | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|-------|---|--------|-----|-----------|---|----------------|--|---|-------|---|---------|---|------------------|---|--------------|---|----------------|---|---------------|
| <p>Body Label</p> <p>Lot No.: Production year of last digit e.g. □ □ □ □ □ (1) (2) (3) (4) (5)</p> <p>(1),(2) Production Day: 01-31 (3) Production Month: 1 to 9, X,Y,Z X = 10, Y = 11, Z = 12</p> <p>(4) Production Year: Last digit of the year (5) Abbreviation code for Production Factory</p>  <table border="1" data-bbox="113 892 462 997"> <tr> <td>A</td> <td>Model</td> </tr> <tr> <td>B</td> <td>Lot No</td> </tr> <tr> <td>C/D</td> <td>Standards</td> </tr> <tr> <td>E</td> <td>Operating Mode</td> </tr> </table> | A | Model | B | Lot No | C/D | Standards | E | Operating Mode | <p>Lot No.: Production year of last two digits e.g. □ □ □ □ □ □ (1) (2) (3) (4) (5) (6)</p> <p>(1),(2) Production Day: 01-31 (3) Production Month: 1 to 9, X,Y,Z X = 10, Y = 11, Z = 12</p> <p>(4),(5) Production Year: Last two digits of the year (6) Abbreviation code for Production Factory</p> <p>Other label changes are followings:</p>  <table border="1" data-bbox="836 955 1218 1134"> <tr> <td>A</td> <td>Model</td> </tr> <tr> <td>B</td> <td>Lot N o</td> </tr> <tr> <td>C</td> <td>CE,CCC Standards</td> </tr> <tr> <td>D</td> <td>UL Standards</td> </tr> <tr> <td>E</td> <td>Operating Mode</td> </tr> <tr> <td>F</td> <td>EMC Directive</td> </tr> </table> | A | Model | B | Lot N o | C | CE,CCC Standards | D | UL Standards | E | Operating Mode | F | EMC Directive |
| A | Model | | | | | | | | | | | | | | | | | | | | |
| B | Lot No | | | | | | | | | | | | | | | | | | | | |
| C/D | Standards | | | | | | | | | | | | | | | | | | | | |
| E | Operating Mode | | | | | | | | | | | | | | | | | | | | |
| A | Model | | | | | | | | | | | | | | | | | | | | |
| B | Lot N o | | | | | | | | | | | | | | | | | | | | |
| C | CE,CCC Standards | | | | | | | | | | | | | | | | | | | | |
| D | UL Standards | | | | | | | | | | | | | | | | | | | | |
| E | Operating Mode | | | | | | | | | | | | | | | | | | | | |
| F | EMC Directive | | | | | | | | | | | | | | | | | | | | |

Packing Case

| Product discontinuation | Recommended replacement |
|---|---|
| Packing Case White printing | No white printing No OMRON logo (blue) printing |
| Packing Case Label Lot No.: Production year of last digit e.g. □ □ □ □ □ (1) (2) (3) (4) (5) (1),(2) Production Day: 01-31 (3) Production Month: 1 to 9, X,Y,Z X = 10, Y = 11, Z = 12 (4) Production Year: Last digit of the year (5) Abbreviation code for Production Factory 2D QR Code: Printing EAN Code: Printing ID mark: Printing   | Lot No.: Production year of last two digits e.g. □ □ □ □ □ □ (1) (2) (3) (4) (5) (6) (1),(2) Production Day: 01-31 (3) Production Month: 1 to 9, X,Y,Z X = 10, Y = 11, Z = 12 (4),(5) Production Year: Last two digits of the year (6) Abbreviation code for Production Factory 2D QR Code: No Printing EAN Code: Change with the change of product code ID mark: No Printing   |

Instruction Manual

| Product discontinuation | Recommended replacement |
|-------------------------------------|-------------------------|
| Instruction manual is not provided. | |

Applicable Standards

| Product discontinuation | Recommended replacement |
|--------------------------|-------------------------|
| Does not comply with CCC | Complies with CCC |