

## Long-distance Detection Prevents Unexpected Facility Stoppages

- Exceptional sensing distance\*<sup>1</sup>. Nearly double the sensing distance of previous models.
- With high-brightness LED, indicator is visible 360° around.
- Only 10 seconds\*<sup>2</sup> to replace a Proximity Sensor with Quick fix (Mounting Sleeve).
- Cables with enhanced oil resistance have 2-year oil resistance\*<sup>3</sup>.
- IP69K compliant for water resistance and wash resistance.\*<sup>4</sup>
- UL certification (UL60947-5-2) and CSA certification (CSA C22.2 UL60947-5-2-14)

\*1. Based on July 2017 OMRON investigation.  
 \*2. Time required to adjust the distance when installing a Sensor. Based on OMRON investigation.  
 \*3. Refer to page 6 and 8 for details. However, E2EQ series is excluded.  
 \*4. E2EQ series is excluded.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read *Safety Precautions* on page 15.

## E2E/E2EQ NEXT Series Model Number Legend

### DC 2-wire

E2E (1) - X (2) (3) D (4) (5) (6) - (7) - (8) (9) - (10) (11)

| No.  | Classification                                  | Code     | Meaning   |
|------|---|----------|---|
| (1)  | Case  | Blank    | Without spatter-resistant coating   |
|      |   | Q        | With spatter-resistant coating  |
| (2)  | Sensing distance                                | Number   | Sensing distance (Unit: mm) (R: Indication of decimal point)                                  |
| (3)  | Shielding                                       | Blank    | Shielded Models   |
|      |   | M        | Unshielded Models   |
| (4)  | Operation mode                                  | 1        | Normally open (NO)  |
|      |   | 2        | Normally closed (NC)  |
| (5)  | Body size                                       | Blank    | Standard  |
|      |   | L        | Long Body   |
| (6)  | Size<br>(Omitted for the Single distance type.) | 8        | M8  |
|      |   | 12       | M12   |
|      |   | 18       | M18   |
|      |   | 30       | M30   |
| (7)  | Connecting method                               | Blank    | Pre-wired Models  |
|      |   | M1TGJ    | M12 Pre-wired Smartclick Connector Models pigtail   |
|      |   | M1TGJR   | M12 Pre-wired Smartclick Connector Models (Robot (bending-resistant) PVC cable) robot pigtail |
| (8)  | Polarity  | Blank    | Polarity  |
|      |   | T        | No polarity   |
| (9)  | Cable specifications *                          | Blank    | Standard PVC cable  |
|      |   | R        | Robot (bending-resistant) PVC cable   |
| (10) | New model                                       | Blank    | Other than Single distance model (Pre-wired Models)   |
|      |   | N        | Single distance model (Applicable only to Pre-wired Models)                                   |
| (11) | Cable length                                    | Number M | Cable length  |

\* (9) is only shown in the model number of Pre-wired Models.

**Note:** 1. The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers.

2. Size description of the number 7 is not included in the Single-distance type.

# E2E/E2EQ NEXT Series

## Ordering Information

### Sensors

E2E NEXT Series (Triple distance model)

DC 2-wire [Refer to *Dimensions* on page 18.]

Shielded Models \*1

| Size<br>(Sensing distance) | Connection method                                | Polarity | Model                    |                          |
|----------------------------|--|----------|--------------------------|--------------------------|
|                            |  |          | Operation mode: NO       | Operation mode: NC       |
| M8<br>(3 mm)               | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X3D18 2M             | E2E-X3D28 2M             |
|                            |  | No       | E2E-X3D18-T 2M           | E2E-X3D28-T 2M           |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X3D18-M1TGJ 0.3M     | E2E-X3D28-M1TGJ 0.3M     |
|                            |  | No       | E2E-X3D18-M1TGJ-T 0.3M   | E2E-X3D28-M1TGJ-T 0.3M   |
| M12<br>(7 mm)              | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X7D112 2M            | E2E-X7D212 2M            |
|                            |  | No       | E2E-X7D112-T 2M          | E2E-X7D212-T 2M          |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X7D112-M1TGJ 0.3M    | E2E-X7D212-M1TGJ 0.3M    |
|                            |  | No       | E2E-X7D112-M1TGJ-T 0.3M  | E2E-X7D212-M1TGJ-T 0.3M  |
| M18<br>(11 mm)             | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X11D118 2M           | E2E-X11D218 2M           |
|                            |  | No       | E2E-X11D118-T 2M         | E2E-X11D218-T 2M         |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X11D118-M1TGJ 0.3M   | E2E-X11D218-M1TGJ 0.3M   |
|                            |  | No       | E2E-X11D118-M1TGJ-T 0.3M | E2E-X11D218-M1TGJ-T 0.3M |
| M30<br>(20 mm)             | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X20D130 2M           | E2E-X20D230 2M           |
|                            |  | No       | E2E-X20D130-T 2M         | E2E-X20D230-T 2M         |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X20D130-M1TGJ 0.3M   | E2E-X20D230-M1TGJ 0.3M   |
|                            |  | No       | E2E-X20D130-M1TGJ-T 0.3M | E2E-X20D230-M1TGJ-T 0.3M |

### Unshielded Models

| Size<br>(Sensing distance) | Connection method                                | Polarity | Model                      |                            |
|----------------------------|--|----------|----------------------------|----------------------------|
|                            |  |          | Operation mode: NO         | Operation mode: NC         |
| M8<br>(6 mm)               | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X6MD18 2M              | E2E-X6MD28 2M              |
|                            |  | No       | E2E-X6MD18-T 2M            | E2E-X6MD28-T 2M            |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X6MD18-M1TGJ 0.3M      | E2E-X6MD28-M1TGJ 0.3M      |
|                            |  | No       | E2E-X6MD18-M1TGJ-T 0.3M    | E2E-X6MD28-M1TGJ-T 0.3M    |
| M12<br>(10 mm)             | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X10MD112 2M            | E2E-X10MD212 2M            |
|                            |  | No       | E2E-X10MD112-T 2M          | E2E-X10MD212-T 2M          |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X10MD112-M1TGJ 0.3M    | E2E-X10MD212-M1TGJ 0.3M    |
|                            |  | No       | E2E-X10MD112-M1TGJ-T 0.3M  | E2E-X10MD212-M1TGJ-T 0.3M  |
| M18<br>(20 mm)             | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X20MD1L18 2M           | E2E-X20MD2L18 2M           |
|                            |  | No       | E2E-X20MD1L18-T 2M         | E2E-X20MD2L18-T 2M         |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X20MD1L18-M1TGJ 0.3M   | E2E-X20MD2L18-M1TGJ 0.3M   |
|                            |  | No       | E2E-X20MD1L18-M1TGJ-T 0.3M | E2E-X20MD2L18-M1TGJ-T 0.3M |
| M30<br>(40 mm)             | Pre-wired (2 m) *2 *3                            | Yes      | E2E-X40MD1L30 2M           | E2E-X40MD2L30 2M           |
|                            |  | No       | E2E-X40MD1L30-T 2M         | E2E-X40MD2L30-T 2M         |
|                            | M12 Pre-wired<br>Smartclick Connector (0.3 m) *4 | Yes      | E2E-X40MD1L30-M1TGJ 0.3M   | E2E-X40MD2L30-M1TGJ 0.3M   |
|                            |  | No       | E2E-X40MD1L30-M1TGJ-T 0.3M | E2E-X40MD2L30-M1TGJ-T 0.3M |

\*1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 16.

\*2. Models with 5-m cable length are also available with "5M" suffix. (Example: E2E-X3D18 5M)

\*3. Models with 2-m and 5-m robot (bending-resistant) cables are also available with "-R" in the model number. (Example: E2E-X3D18-R 2M/E2E-X3D18-R 5M)

\*4. Models with M12 Pre-wired Smartclick Connectors and robot (bending-resistant) cables are also available with "R" in the model number. (Example: E2E-X3D18-M1TGJR 0.3M/E2E-X3D18-M1TGJR-T 0.3M)