

## Enables easier and standardized designs previously not possible

- 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 the 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)<sup>\*5</sup> and CSA certification (CSA C22.2 UL60947-5-2-14)
- All PNP models come standard with IO-Link

<sup>\*1</sup>. Based on December 2018 OMRON investigation.

<sup>\*2</sup>. Time required to adjust the distance when installing a Sensor. Based on OMRON investigation.

<sup>\*3</sup>. Refer to *Ratings and Specifications* for details. However, E2E Connector Models and E2EQ series is excluded.

<sup>\*4</sup>. E2EQ series is excluded.

<sup>\*5</sup>. M8 (4-pin) Connector Models are not UL certified.



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 47.

## Features

### PREMIUM Model

#### User-friendly design

Exceptional sensing range<sup>\*6</sup>

**9** [M12] mm<sup>\*7</sup>

- The PREMIUM Model, which has longer detection range than previous models, allows for flexible designs with lower risk of collision.
- Enables users to standardize sensors sizes to reduce inventory needs.

<sup>\*6</sup>. Based on December 2018 OMRON investigation.

<sup>\*7</sup>. Quadruple distance models of M12 sized

Quadruple distance model

9mm [M12]

Triple distance model

6mm [M12]

## New standards for usability

### Early error detection

**1** location, all new E2E Sensors can be monitored with IO-Link

### Fewer unexpected equipment shutdowns

Strong resistance to cutting oil **2**-year<sup>\*9</sup> oil resistance<sup>\*9</sup>

### Quick recovery

**10** second replaceable with quick fix (adaptor)<sup>\*8</sup>  
**360°** degree view with high visibility LED indicator

<sup>\*8</sup>. Time required to adjust the distance when installing a Sensor. Based on OMRON investigation.

<sup>\*9</sup>. E2E Connector Models and E2EQ series is excluded.

### BASIC Model

In addition to our HIGH SPEC Models, we also offer mid/short-distance BASIC Models, to meet various equipment design requirement specifications.

Double distance model

4mm [M12]

Single distance model

2mm [M12]



## E2E/E2EQ NEXT Series

### E2E/E2EQ NEXT Series Model Number Legend

#### DC 3-wire

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

| No.  | Type                   | Code     | Meaning                                                                                      |
|------|------------------------|----------|----------------------------------------------------------------------------------------------|
| (1)  | Case                   | Blank    | Without spatter-resistant coating                                                            |
|      |                        | Q        | With spatter-resistant coating                                                               |
| (2)  | Sensing distance       | Number   | Sensing distance (Unit: mm)<br>(R: Indication of decimal point)                              |
| (3)  | Shielding              | Blank    | Shielded                                                                                     |
|      |                        | M        | Unshielded                                                                                   |
| (4)  | Output configuration   | B        | PNP open collector                                                                           |
|      |                        | C        | NPN open collector                                                                           |
| (5)  | Operation mode         | 1        | Normally open (NO)                                                                           |
|      |                        | 2        | Normally closed (NC)                                                                         |
|      |                        | 3        | Normally open, Normally closed (NO+NC)                                                       |
| (6)  | IO-Link baud rate      | Blank    | IO-Link baud rate                                                                            |
|      |                        | D        | COM2 (38.4 kbps)                                                                             |
|      |                        | T        | COM3 (230.4 kbps)                                                                            |
| (7)  | Body size              | Blank    | Standard                                                                                     |
|      |                        | L        | Long Body                                                                                    |
| (8)  | Size                   | 8        | M8                                                                                           |
|      |                        | 12       | M12                                                                                          |
|      |                        | 18       | M18                                                                                          |
|      |                        | 30       | M30                                                                                          |
| (9)  | Connection method      | Blank    | Pre-wired Models                                                                             |
|      |                        | M1       | M12 Connector Models                                                                         |
|      |                        | M3       | M8 (4-pin) Connector Models                                                                  |
|      |                        | M5       | M8 (3-pin) Connector Models                                                                  |
|      |                        | M1TJ     | M12 Pre-wired Smartclick Connector Models (pigtail)                                          |
|      |                        | M1TJR    | M12 Pre-wired Smartclick Connector Models<br>Robot (bending-resistant) cable (robot pigtail) |
| (10) | Cable specifications * | Blank    | Standard PVC cable                                                                           |
|      |                        | R        | Robot (bending-resistant) cable                                                              |
| (11) | Cable length           | Number M | Cable length                                                                                 |

\* (10) is only shown in the model number of Pre-wired Models.

**Note:** 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.