Proximity Sensor

E2E/E2EQ NEXT Series

DC 3-Wire

Enables easier and standardized designs previously not possible

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

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

*1. Based on December 2018 OMRON investigation.
*2. Time required to adjust the distance when installing a Sensor. Based on OMRON investigation.
*3. Refer to *Ratings and Specifications* for details. However, E2E Connector Models and E2EQ series is excluded.
*4. E2EQ series is excluded.
*5. M8 (4-pin) Connector Models are not UL certified.

⚠ Be sure to read *Safety Precautions* on page 47.

Features

PREMIUM Model

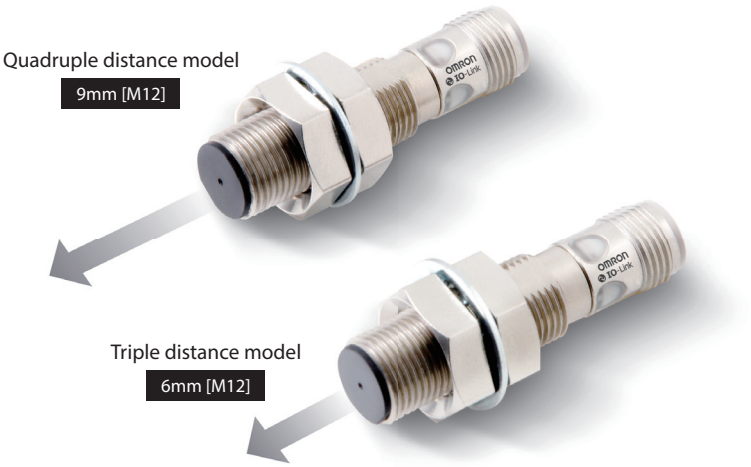
User-friendly design

Exceptional sensing range*6

9 [M12] **mm** *7

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

*6. Based on December 2018 OMRON investigation.
*7. Quadruple distance models of M12 sized



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]

New standards for usability

Early error detection

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

Quick recovery

10 second replaceable with quick fix (adaptor)*8

360° degree view with high visibility LED indicator

Fewer unexpected equipment shutdowns

Strong resistance to cutting oil **2**-year*3 oil resistance*9

*8. Time required to adjust the distance when installing a Sensor. Based on OMRON investigation.
*9. E2E Connector Models and E2EQ series is excluded.

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) (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 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.