Small-diameter Proximity Sensor
E2E

Ultra small size and simple installation

- 104 model variations available.
- Improved sensing ranges for easy sensor positioning adjustment.
- High-speed response frequency stably detects moving objects: 5 kHz max.
- Four output LEDs for highly visible status indication.
- Special mounting brackets for reduced installation time.
- Stainless-steel Spiral Tube to protect against cable breakage is available (M4, M5 only).

* When the 4-dia. shielded model is used.

Refer to *Safety Precautions* on page 10.

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

Features

Lineup of global small-diameter proximity sensors (3 dia., 4 dia., 6.5 dia., M4, M5)

- A lineup of unshielded models for long distance sensing is also available. Stable long distance sensing performance enables worry-free use.

Bright operation indicators make it easy to view sensor status

- Four indicator LEDs in a 360 degree layout are easily seen from all angles.

High-speed response enables sharp detection timing

- 5 kHz response frequency max.

Protection circuits prevent failures due to wiring mistakes.

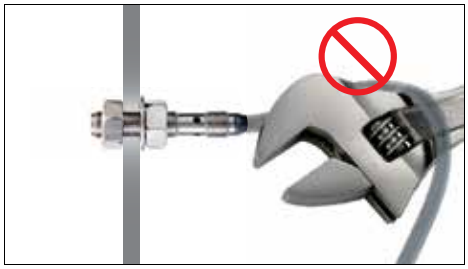
- Load short-circuit protection and output reverse polarity protection circuits are incorporated.

Low current consumption: 10mA max

- Current consumption is 2/3 that of conventional small diameter proximity sensors.

Protective Stainless-steel Spiral Tubes available

- Lineup of protective tubes for M4 and M5 sizes. Reduces wire breakage due to snagging or impact.



E2E (Small Diameter) Model Number Legend

E2E- ① ② ③ ④ - ⑤ - ⑥ ⑦ ⑧

No.	Classification	Code	Meaning
①	Housing material and shape	S	SUS, threaded
		C	SUS, cylindrical
②	Size	03	Outer diameter 3 mm
		04	Outer diameter 4 mm
		05	Outer diameter 5 mm
		06	Outer diameter 6.5 mm
③	Shielding	S	Shielded Models
		N	Unshielded Models
④	Sensing distance	Number	R8: 0.8 mm, 12: 1.2 mm, 02: 2 mm, 03: 3 mm, 04: 4 mm
⑤	Connection method	WC	PVC Pre-wired Model
		MC	M8 Connector, 3-pin
		CJ	M8 Pre-wired Connector, 3-pin
⑥	Output specifications	B	DC 3-wire PNP open-collector output
		C	DC 3-wire NPN open-collector output
⑦	Operation mode	1	Normally open (NO)
		2	Normally closed (NC)
⑧	Cable length	Blank	Connector Models
		Number M	Cable length (Unit: m) (Applicable to Pre-wired Models 2M and Pre-wired Connector Models 0.3M)

Note: The purpose of this model number legend is to provide an understanding of the model numbers and how they correlate to sensor specifications. Models are not available for all combinations of code numbers.