

Proximity Sensor Ideal for the Food and Beverage Industry



–SUS316L Body, IP69K Protection, Resistant to High Temperatures and Detergents–



Improved resistance to detergents and rusting



Applicable to 120°C (with DC 3-wire connection) (Heat resistance verified to 1,000 hours.)



Resists typical detergents and disinfectants used in the food industry



Water resistant under high-temperature, high-pressure cleaning based on DIN 40050-9. (Pressure: 8,000 to 10,000 kPa, Water temperature: 80°C, For 30 s at all angles)



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 9.

Ordering Information

Sensors [Refer to *Dimensions* on page 10.]

Pre-wired Models

Appearance	Sensing distance	Output configuration	Operation mode: NO	Operation mode: NC
Shielded	M12 3 mm	DC 2-wire (polarity)	E2EH-X3D1 2M	E2EH-X3D2 2M
		DC 2-wire (no polarity) *	E2EH-X3D1-T 2M	---
		DC 3-wire (PNP)	E2EH-X3B1 2M	E2EH-X3B2 2M
		DC 3-wire (NPN)	E2EH-X3C1 2M	E2EH-X3C2 2M
	M18 7 mm	DC 2-wire (polarity)	E2EH-X7D1 2M	E2EH-X7D2 2M
		DC 2-wire (no polarity) *	E2EH-X7D1-T 2M	---
		DC 3-wire (PNP)	E2EH-X7B1 2M	E2EH-X7B2 2M
		DC 3-wire (NPN)	E2EH-X7C1 2M	E2EH-X7C2 2M
	M30 12 mm	DC 2-wire (polarity)	E2EH-X12D1 2M	E2EH-X12D2 2M
		DC 2-wire (no polarity) *	E2EH-X12D1-T 2M	---
		DC 3-wire (PNP)	E2EH-X12B1 2M	E2EH-X12B2 2M
		DC 3-wire (NPN)	E2EH-X12C1 2M	E2EH-X12C2 2M

Connector Models (M12)

Appearance	Sensing distance	Output configuration	Operation mode: NO	Operation mode: NC
Shielded	M12 3 mm	DC 2-wire (polarity)	E2EH-X3D1-M1G	E2EH-X3D2-M1G
		DC 3-wire (PNP)	E2EH-X3B1-M1	E2EH-X3B2-M1
		DC 3-wire (NPN)	E2EH-X3C1-M1	E2EH-X3C2-M1
	M18 7 mm	DC 2-wire (polarity)	E2EH-X7D1-M1G	E2EH-X7D2-M1G
		DC 3-wire (PNP)	E2EH-X7B1-M1	E2EH-X7B2-M1
		DC 3-wire (NPN)	E2EH-X7C1-M1	E2EH-X7C2-M1
	M30 12 mm	DC 2-wire (polarity)	E2EH-X12D1-M1G	E2EH-X12D2-M1G
		DC 3-wire (PNP)	E2EH-X12B1-M1	E2EH-X12B2-M1
		DC 3-wire (NPN)	E2EH-X12C1-M1	E2EH-X12C2-M1

*When using a no-polarity model, there is no need to be concerned about whether to connect to the positive or negative side of the power supply. The load can be connected to either the +V side or 0 V side.

Accessories (Order Separately)

Sensor I/O Connectors (M12, Sockets on One Cable End)

(Models for Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.) [Refer to XS2.]

Appearance	Cable length	Sensor I/O Connector model	Applicable Proximity Sensors
Straight 	2 m	XS2F-E421-D80-E	E2EH-X□D□-M1G E2EH-X□B□-M1 E2EH-X□C□-M1
	5 m	XS2F-E421-G80-E	
L-shape 	2 m	XS2F-E422-D80-E	
	5 m	XS2F-E422-G80-E	

Note: The above Connectors conform to DIN40050-9 standard, provide IP69K protection, have a maximum operating temperature of 105°C, and use SUS316L stainless steel.