

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 100°C



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.

Ratings and Specifications

E2EH-X□D□ DC 2-Wire Models

Item	Size Shielded Model	M12	M18	M30
		Shielded		
		E2EH-X3D□	E2EH-X7D□	E2EH-X12D□
Sensing distance		3 mm±10%	7 mm±10%	12 mm±10%
Set distance *1		0 to 2.4 mm	0 to 5.6 mm	0 to 9.6 mm
Differential travel		15% max. of sensing distance		
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data (Reference Value)</i> on page 6.)		
Standard sensing object		Iron, 12 × 12 × 1 mm	Iron 21 × 21 × 1 mm	Iron 36 × 36 × 1 mm
Response frequency *2		500 Hz	300 Hz	100 Hz
Power supply voltage (operating voltage range)		12 to 24 VDC, ripple (p-p): 10% max. (10 to 32 VDC)		
Leakage current		0.8 mA max.		
Control output	Load current	3 to 100 mA		
	Residual voltage *3	Polarity Models: 3 V max. No polarity Models: E2EH-X□D□-T: (5 V max. *3 (Load current: 100 mA, Cable length 2 m)		
Indicators		D1 Models: Operation indicator (red), Setting indicator (yellow) D2 Models: Operation indicator (yellow)		
Operation mode (with sensing object approaching)		D1 Models: NO D2 Models: NC Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 7 for details.		
Protection circuits		Surge suppressor, Load short-circuit protection		
Ambient temperature range		Operating: 0 to 100°C Storage: -25 to 70° (with no icing or condensation)		
Ambient humidity range		35% to 95%		
Temperature influence		±10% max. of sensing distance at 23°C in the temperature range of 0 to 70°C. ±15% max. of sensing distance at 23°C in the temperature range of 70 to 100°C.		
Voltage influence		±10% max. of sensing distance at rated voltage in the 15% rated voltage range.		
Insulation resistance		50 MΩ min. (at 500 VDC) between current-carrying parts and case		
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case		
Vibration resistance		Destruction: 10 to 55 Hz 1.5-mm double amplitude for 2 hours each in X, Y and Z directions		
Shock resistance		Destruction: 1,000 m/s ² , 10 times each in X, Y and Z directions		
Degree of protection		IEC IP67, DIN 40050-9 IP69K *4		
Connection method		Pre-wired Models (Standard cable length 2 m), Connector Models		
Weight (packed state)	Pre-wired Models	Approx. 80 g	Approx. 145 g	Approx. 220 g
	Connector Models	Approx. 30 g	Approx. 55 g	Approx. 125 g
Materials	Case, clamping nut	Stainless steel (SUS316L)		
	Sensing surface	PBT		
	Cable	Heat-resistant PVC cable (Pre-wired model)		
Accessories		Instruction manual		

*1. Use the yellow indicator on D1 Models as a guide.

*2. The response frequency is an average value.

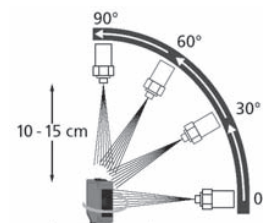
Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

*3. The residual voltage of each E2EH-X□D□ DC 2-Wire Model is 5 V. When connecting to a device, make sure that the device can withstand the residual voltage. (Refer to page 9.)

*4. IP69K Degree of Protection Specification

IP69K is a protection standard against high temperature and high-pressure water defined in the German standard DIN 40050, Part 9. The test piece is sprayed with water at 80°C at a water pressure of 80 to 100 BAR using a specified nozzle shape at a rate of 14 to 16 liters/min.

The distance between the test piece and nozzle is 10 to 15 cm, and water is sprayed horizontally for 30 seconds each at 0°, 30°, 60°, and 90° while rotating the test piece on a horizontal plane.



E2EH-X□C□/B□ DC 3-Wire Models

Item	Size	M12	M18	M30
	Shielded	Shielded		
	Model	E2EH-X3C□/B□	E2EH-X7C□/B□	E2EH-X12C□/B□
Sensing distance		3 mm±10%	7 mm±10%	12 mm±10%
Set distance *1		0 to 2.4 mm	0 to 5.6 mm	0 to 9.6 mm
Differential travel		15% max. of sensing distance		
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data (Reference Value)</i> on page 6.)		
Standard sensing object		Iron, 12 × 12 × 1 mm	Iron 21 × 21 × 1 mm	Iron 36 × 36 × 1 mm
Response frequency *2		500 Hz	300 Hz	100 Hz
Power supply voltage (operating voltage range)		12 to 24 VDC, ripple (p-p): 10% max. (10 to 32 VDC)		
Current consumption		10 mA max.		
Control output	Load current	100 mA max.		
	Residual voltage	2 V max. (Load current: 100 mA, Cable length 2 m)		
Indicators		Operation indicator (yellow)		
Operating mode (with sensing object approaching)		C1 Models: NO C2 Models: NC B1 Models: NO B2 Models: NC Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 7 for details.		
Protection circuits		Power supply reverse polarity protection, Surge suppressor, Load short-circuit protection, Reversed output polarity protection		
Ambient temperature range		Operating: 0 to 100°C Storage: -25 to 70°C (with no icing or condensation)		
Ambient humidity range		35% to 95%		
Temperature influence		±10% max. of sensing distance at 23°C in the temperature range of 0 to 70°C. ±15% max. of sensing distance at 23°C in the temperature range of 70 to 100°C.		
Voltage influence		10% max. of sensing distance at rated voltage in the 15% rated voltage range.		
Insulation resistance		50 MΩ min. (at 500 VDC) between current-carrying parts and case		
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case		
Vibration resistance		Destruction: 10 to 55 Hz 1.5-mm double amplitude for 2 hours each in X, Y and Z directions		
Shock resistance		Destruction: 1,000 m/s ² , 10 times each in X, Y and Z directions		
Degree of protection		IEC IP67, DIN 40050-9 IP69K		
Connection method		Pre-wired Models (Standard cable length 2 m), Connector Models		
Weight (packed state)	Pre-wired Models	Approx. 80 g	Approx. 145 g	Approx. 220 g
	Connector Models	Approx. 30 g	Approx. 55 g	Approx. 125 g
Materials	Case, clamping nut	Stainless steel (SUS316L)		
	Sensing surface	PBT		
	Cable	Heat-resistant PVC cable (Pre-wired Model)		
Accessories		Instruction manual		

*1. The response frequency is an average value.

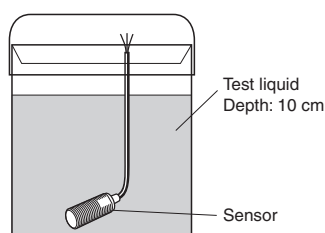
Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

Resistance to Detergents, Disinfectants, and Chemicals

- Performance is assured for typical detergents and disinfectants, but performance may not be maintained for some detergents and disinfectants. Refer to the following table when using these agents.
- The E2EH passed testing for resistance to detergents and disinfectants performed using the items in the following table. Refer to this table when considering use of detergents and disinfectants.

Category	Product name	Concentration	Temperature	Time
Chemical	Sodium hydroxide (NaOH)	1.5%	70°C	240h
	Potassium hydroxide (KOH)	1.5%	70°C	240h
	Phosphoric acid (H ₃ PO ₄)	2.5%	70°C	240h
	Sodium hypochlorite (NaClO)	0.3%	25°C	240h
	Hydrogen peroxide (H ₂ O ₂)	6.5%	25°C	240h
Alkaline foam detergent	P3-topax-66s (Manufactured by Ecolab)	3.0%	70°C	240h
Acidic foam detergent	P3-topax-56 (Manufactured by Ecolab)	5.0%	70°C	240h
Disinfectant	P3-oxonia active 90 (Manufactured by Ecolab)	1.0%	25°C	240h

Test Conditions



After the test is completed, check that no problems exist with the following product characteristics.

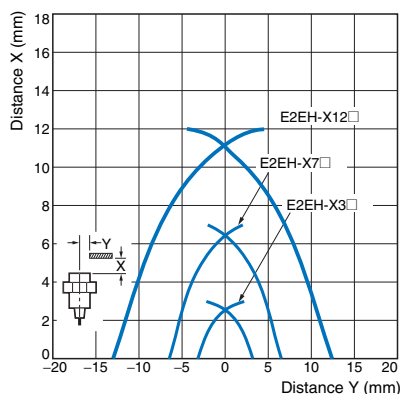
- (1) Appearance (no damage that will affect the product characteristics)
- (2) Operation Check (ON/OFF)
- (3) Insulation resistance: 50 MΩ min. (at 500 VDC)
- (4) Dielectric strength (1,000 VAC for 1 minute)
- (5) Water resistance (IP67)

Engineering Data (Reference Value)

Sensing Area

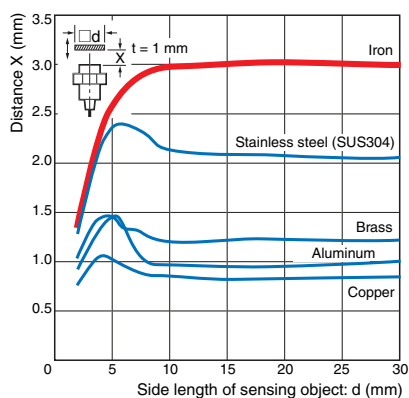
Shielded Models

E2EH-X□□

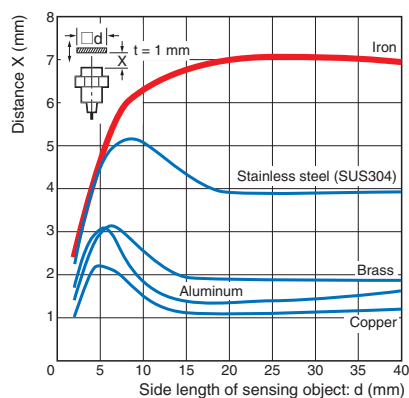


Influence of Sensing Object Size and Material

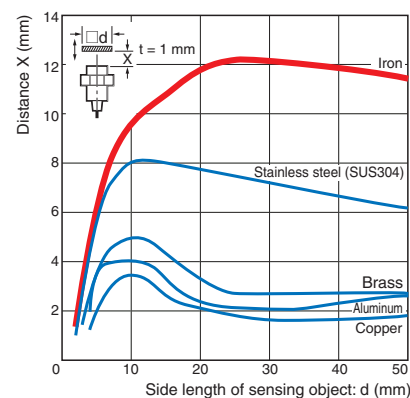
E2EH-X3□□



E2EH-X7□□

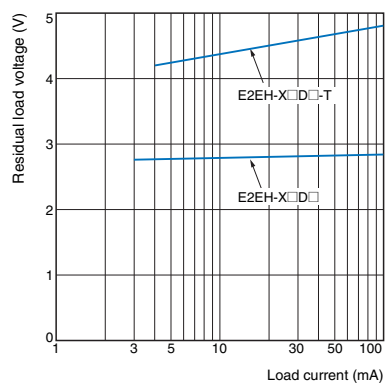


E2EH-X12□□



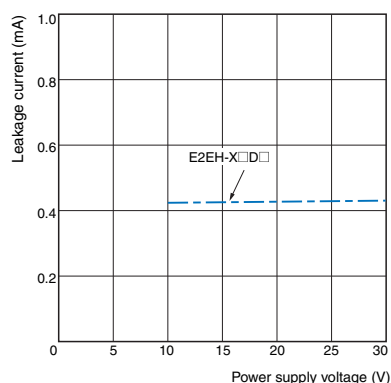
Residual Output Voltage

E2EH-X□D□



Leakage Current

E2EH-X□D□



I/O Circuit Diagrams

E2EH-X□D□ DC 2-Wire Models

Operating mode	Model	Timing charts	Output circuit
NO	E2EH-X□D1 E2EH-X□D1-M1G		<p>Polarity: Yes</p> <p>Note: The load can be connected to either the +V or 0 V side.</p>
	E2EH-X□D1-T		<p>Polarity: None</p> <p>Note: 1. The load can be connected to either the +V or 0 V side. 2. The E2EH-X□D□-T has no polarity. Therefore, you do not need to consider the polarity.</p>
NC	E2EH-X□D2 E2EH-X□D2-M1G		<p>Note: The load can be connected to either the +V or 0 V side.</p>

DC 3-Wire Models

Operating mode	Output specifications	Model	Timing charts	Output circuit
NO	NPN Open-collector output	E2EH-X□C1		<p>Note: Use pin 1, 4, and 3 for NO. Use pin 1, 2, and 3 for NC.</p>
NC		E2EH-X□C2		
NO	PNP Open-collector output	E2EH-X□B1		<p>Note: Use pin 1, 4, and 3 for NO. Use pin 1, 2, and 3 for NC.</p>
NC		E2EH-X□B2		

Connections for Sensor I/O Connectors

Con- nection diagram No.	Proximity Sensor			Sensor I/O Connector model	Connections
	Type	Operating mode	Model		
1	DC 2-wire (IEC pin wiring)	NO	E2EH-X□D1-M1G	XS2F-E42□-□80-E 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
2		NC	E2EH-X□D2-M1G		
3	DC 3-wire	NO	E2EH-X□B1-M1 E2EH-X□C1-M1		
4		NC	E2EH-X□B2-M1 E2EH-X□C2-M1		

*XS2F wire colors differ from Proximity Sensor wire colors.

Refer to *Introduction to Sensor I/O Connectors/Sensor Controllers* for details.

Safety Precautions

Refer to *Warranty and Limitations of Liability* for details.

⚠ WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



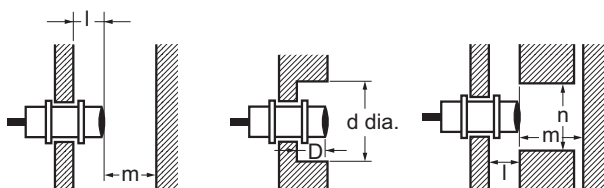
Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

● Design

Influence of Surrounding Metal

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained.



Influence of Surrounding Metal

(Unit: mm)

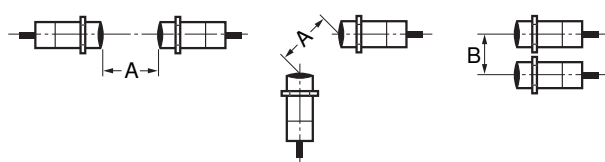
Type	Item	M12	M18	M30	
DC 2-wire E2EH-X□D□	Shielded	l	2.4	3.6	6
		d	18	27	50
		D	2.4	3.6	6
		m	12	24	45
		n	18	27	50
DC 3-wire E2EH-X□B□ E2EH-X□C□	Shielded	l	2.4	3.6	6
		d	18	27	50
		D	2.4	3.6	6
		m	12	24	45
		n	18	27	50

AND/OR Connections

Error pulses and leakage current may prevent application in AND or OR circuits. Always confirm operation in advance to confirm if there are any problems in operation.

Mutual Interference

When installing Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.



Mutual Interference

(Unit: mm)

Type	Item	M12	M18	M30	
DC 2-wire E2EH-X□D□	Shielded	A	30	60	110
		B	20	35	90
DC 3-wire E2EH-X□B□ E2EH-X□C□	Shielded	A	30	60	110
		B	20	35	90

Connecting a DC 2-wire Proximity Sensor to a PLC (Programmable Controller)

Required Conditions

Connection to a PLC is possible if the specifications of the PLC and the Proximity Sensor satisfy the following conditions. (The meanings of the symbols are given at the right.)

- The ON voltage of the PLC and the residual voltage of the Proximity Sensor must satisfy the following.

$$V_{ON} \leq V_{CC} - V_R$$
- The OFF current of the PLC and the leakage current of the Proximity Sensor must satisfy the following.

$$I_{OFF} \geq I_{leak}$$
 (If the OFF current is not listed in the PLC's input specifications, take it to be 1.3 mA.)
- The ON current of the PLC and the control output of the Proximity Sensor must satisfy the following.

$$I_{OUT}(\min.) \leq I_{ON} \leq I_{OUT}(\max.)$$

The ON current will vary, however, with the power supply voltage and the input impedance, as shown in the following equation.

$$I_{ON} = (V_{CC} - V_R - \underline{V_{PC}}) / R_{IN}$$

Example

In this example, the above conditions are checked when the Proximity Sensor is the E2EH-X7D1-T and the power supply voltage is 24 V.

- $V_{ON} (14.4 \text{ V}) \leq V_{CC} (20.4 \text{ V}) - V_R (5 \text{ V}) = 15.4 \text{ V}$: OK
- $I_{OFF} (1.3 \text{ mA}) \geq I_{leak} (0.8 \text{ mA})$: OK
- $I_{ON} = [V_{CC} (20.4 \text{ V}) - V_R (5 \text{ V}) - \underline{V_{PC}} (4 \text{ V})] / R_{IN} (3 \text{ k}\Omega)$
 \approx Approx. 3.8 mA

Therefore, $I_{OUT}(\min.) (3 \text{ mA}) \leq I_{ON} (3.8 \text{ mA})$: OK

Connection is thus possible.

Connection Example (Reference)

PLC	V_{ON} : ON voltage (14.4 V) I_{ON} : ON current (typ. 7 mA) I_{OFF} : OFF current (1.3 mA) R_{IN} : Input impedance (3 k Ω) V_{PC} : Internal residual voltage (4 V)
Proximity Sensor	V_R : Output residual voltage (5 V) I_{leak} : Leakage current (3 to 100 mA) I_{OUT} : Control output (3 to 100 mA) V_{CC} : Power supply voltage (PLC: 20.4 to 26.4 V)

● Mounting

Tightening Force

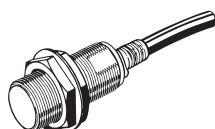
Do not tighten the nut with excessive force.

Model	Torque
M12	30 N·m
M18	70 N·m
M30	180 N·m

Dimensions

(Unit: mm)
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Pre-wired Models
(Shielded)

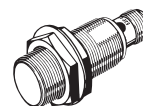


Mounting Hole
Dimensions



Dimensions	M12	M18	M30
F (mm)	12.5 ^{+0.5} ₀ dia.	18.5 ^{+0.5} ₀ dia.	30.5 ^{+0.5} ₀ dia.

Connector Models
(Shielded)

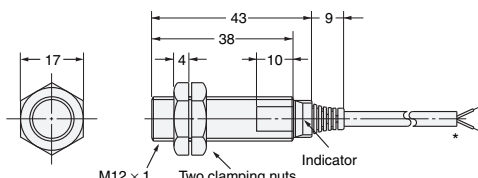


Mounting Hole
Dimensions



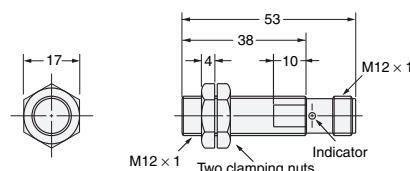
Dimensions	M12	M18	M30
F (mm)	12.5 ^{+0.5} ₀ dia.	18.5 ^{+0.5} ₀ dia.	30.5 ^{+0.5} ₀ dia.

E2EH-X3□□

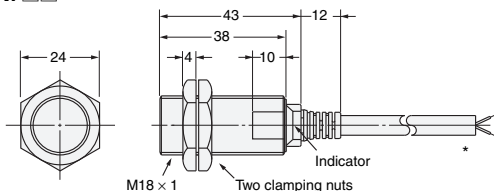


*4-dia. 2-conductor heat-resistant PVC cable
(Conductor cross section: 0.3 mm², insulator diameter: 1.3 mm),
Standard length: 2 m.
4-dia. 3-conductor heat-resistant PVC cable
(Conductor cross section: 0.3 mm², insulator diameter: 1.3 mm),
Standard length: 2 m.

E2EH-X3□□-M1□

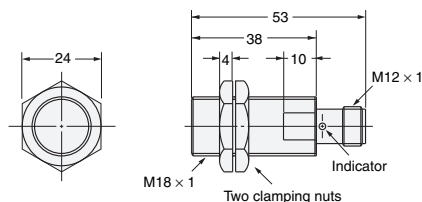


E2EH-X7□□

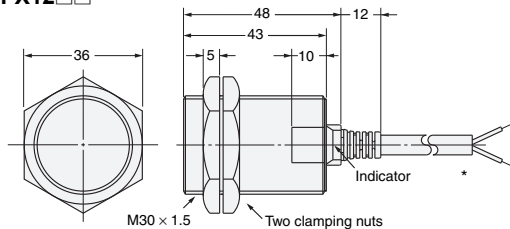


*6-dia. 2-conductor heat-resistant PVC cable
(Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm),
Standard length: 2 m.
6-dia. 3-conductor heat-resistant PVC cable
(Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm),
Standard length: 2 m.

E2EH-X7□□-M1□

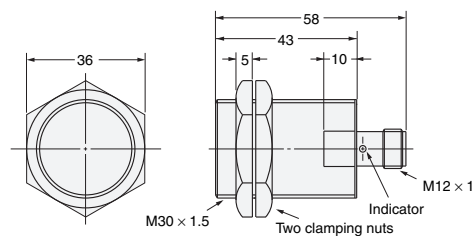


E2EH-X12□□



*6-dia. 2-conductor heat-resistant PVC cable
(Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm),
Standard length: 2 m.
6-dia. 3-conductor heat-resistant PVC cable
(Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm),
Standard length: 2 m.

E2EH-X12□□-M1□



Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

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