

E2E-X10Y1 5M

Shielded, Cylinder type (with screw) M30, AC 2-wire models, Sensing distance 10 mm \pm 10%, NO, Pre-wired models



Image

Sensing head size	M30
Type	Cylinder type (with screw), Shielded
Power source	AC 2-wire models
Sensing distance	10 mm \pm 10%
Setting distance	0 to 8 mm
Operation mode	NO

Ratings/Performance

As of July 16, 2020

Sensing head size	M30
Type	Cylinder type (with screw), Shielded
Power source	AC 2-wire models
Sensing distance	10 mm \pm 10%
Setting distance	0 to 8 mm
Differential distance	10% max. of sensing distance
Sensing object	Ferrous metal (Sensitivity lowers with non-ferrous metals.)
Standard sensing object	Iron 30 x 30 x 1 mm
Response frequency	25 Hz
Power supply voltage	24 to 240 VAC
Operating voltage range	20 to 264 VAC
Leakage current	1.7 mA max.
Control output (Switching capacity)	5 to 300 mA
Indicator	Operation indicator (red)
Operation mode	NO
Protective circuit	Surge suppressor
Ambient temperature (Operating)	-40 to 85 °C
Ambient temperature (Storage)	-40 to 85 °C
Ambient humidity (Operating)	35 to 95% RH
Ambient humidity (Storage)	35 to 95% RH
Temperature influence	\pm 10% max. of sensing distance at 23 °C in the temperature range of -25 to 70 °C \pm 15% max. of sensing distance at 23 °C in the temperature range of -40 to 85 °C
Voltage influence	\pm 1% max. of sensing distance at rated voltage in the rated voltage \pm 15% range
Insulation resistance	Between charged parts and the case: 5 M Ω min. at 500 VDC
Dielectric strength	Between charged parts and the case: 4,000 VAC 50/60 Hz 1 min
Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for

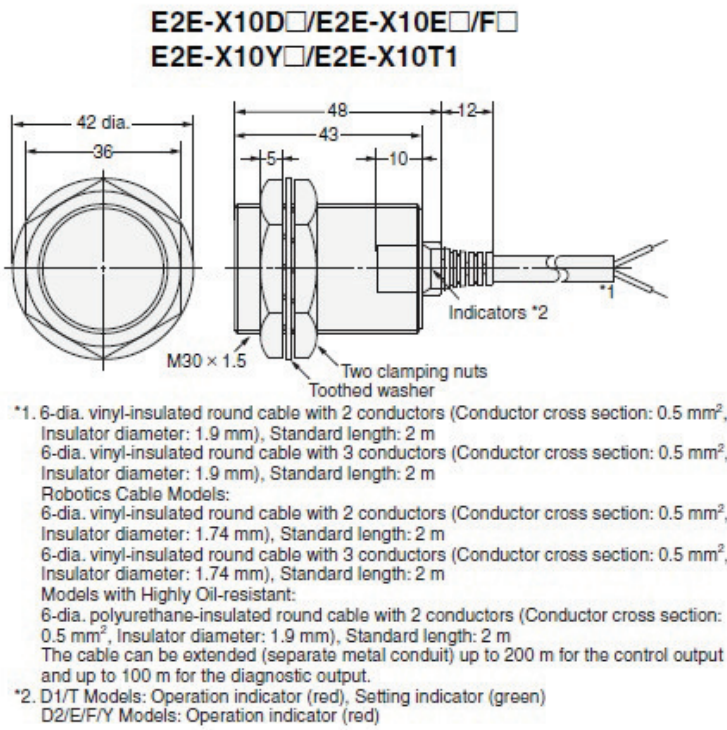
	2 h
Shock resistance	Destruction: 1000 m/s ² 10 times each in X, Y, and Z directions
Degree of protection	IEC: IP67 Company standard: Oil-proof
Connection method	Pre-wired models (5 m)
Material	Case: Brass nickel plating Sensing surface: Polybutylene terephthalate (PBT) Clamping nuts: Brass nickel plating Toothed washers: Iron zinc plating
Accessories	Instruction manual

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Dimensions

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Dimensions

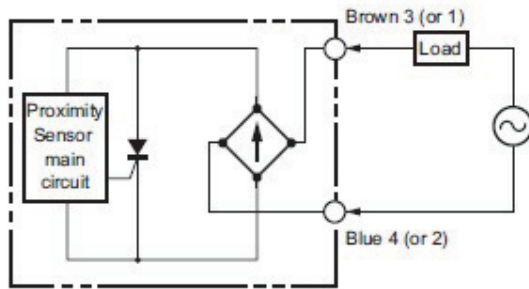


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Output circuit

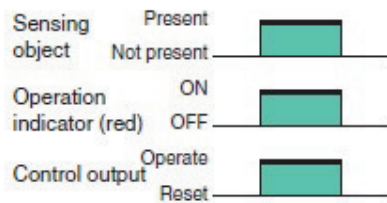
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Output circuit



Note: For Connector Models, the connection between pins 3 and 4 uses an NO contact, and the connection between pins 1 and 2 uses an NC contact.

Timing chart

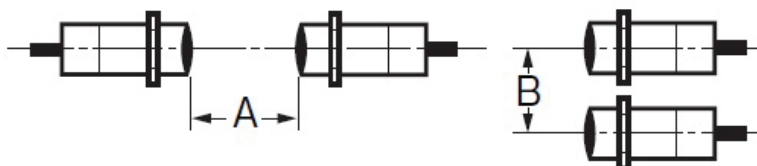


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Mutual interference

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Mutual interference



A: 100 mm min., B: 70 mm min.

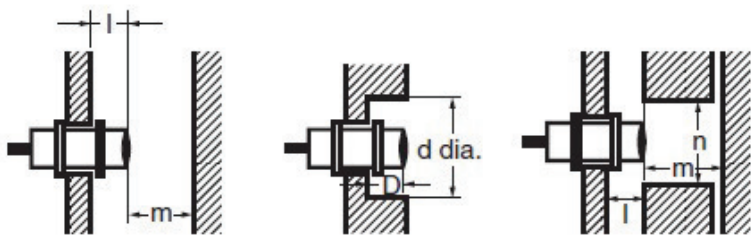
Different frequency

A: 50 mm min., B: 35 mm min.

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Effects of surrounding metals

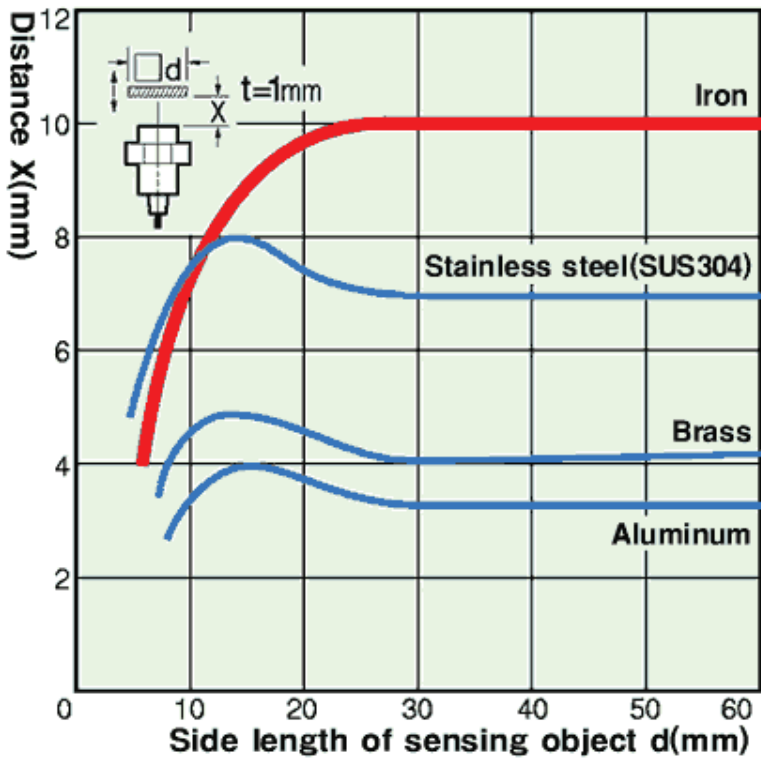
Effects of surrounding metals



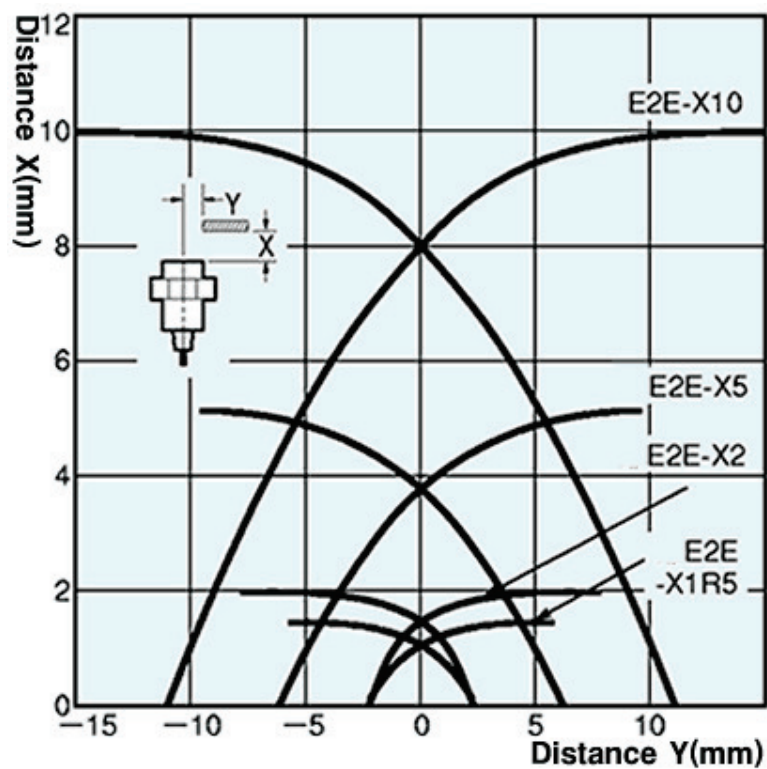
l : 0 mm min., dia. d : 30 mm min., D : 0 mm min., m : 40 mm min., n : 45 mm min.

Characteristic chart

Sensing distance vs. size and material of sensing object

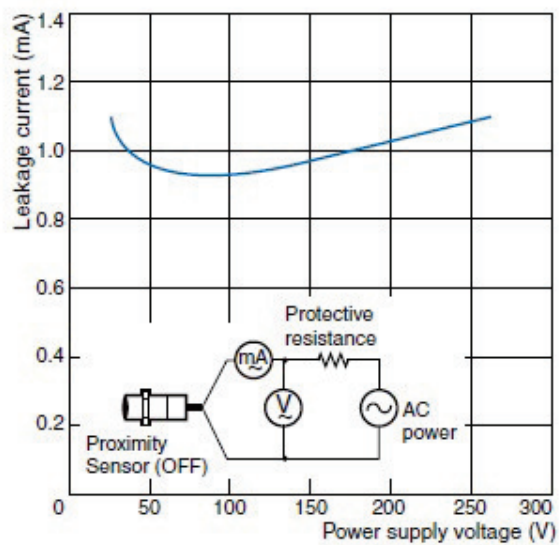


Sensing range



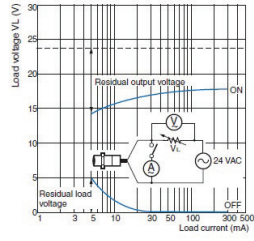
Leakage current

E2E-X□Y□

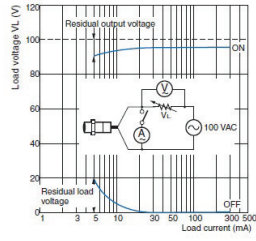


Residual voltage

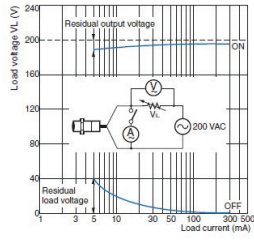
E2E-X□Y□ at 24 VAC



E2E-X□Y□ at 100 VAC



E2E-X□Y□ at 200 VAC



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