

Long-barrel Inductive Proximity Sensor

E2E2-X3D1 5M

English

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Series

Long-barrel Inductive
Proximity Sensor
[E2E2](#)[Catalog](#)No Image
AvailableInductive type, Shielded, M12*1mm, DC 2-wire models, Sensing distance 3 mm,
Operation mode NO, DC 2-wire models with polarity, Pre-wired models(5 m)

Sensing head size	M12
Type	Shielded
Sensing method	Inductive type
Sensing distance	3 mm-10% to +10%
Setting distance	0 to 2.4 mm
Operation mode	NO

[▶ Item list of E2E2](#)[Ratings/Performance](#)[Dimensions](#)[Output circuit](#)[Sensing range](#)[Residual voltage](#)

Sensing distance vs. size and material of sensing object

As of August 8, 2016

Type	Shielded
Sensing method	Inductive type
Sensing distance	3 mm-10% to +10%
Setting distance	0 to 2.4 mm
Differential distance	10% Max. of sensing distance
Sensing object	Ferrous metal (Sensitivity lowers with non-ferrous metals.)
Standard sensing object	Iron 12 x 12 x 1 mm
Power supply voltage	12 to 24 VDC ripple(p-p) 10% Max.
Operating voltage range	10 to 30 VDC
Leakage current	0.8 mA max.
Control output (Output type)	DC 2-wire models with polarity
Control output (Switching capacity)	3 to 100 mA
Indicator	Operation indicator (red), Operation setting indicator (green)
Operation mode	NO
Sensitivity setting	-
Self-diagnostic output	-
Protective circuit	Surge suppressor Output short-cut protection
Standard or Different frequency	Standard
Ambient temperature	Operating: -25 to 70 °C Storage: -25 to 70 °C
Ambient humidity	Operating: 35 to 95%RH Storage: 35-95%RH
Temperature influence	+/- 10% Max. of sensing distance in temperature range of -25 to +70 CEL (As the basis for sensing distance of 23 CEL)
Voltage influence	+/- 1% Max. of sensing distance in rated voltage range +/- 15%. (As the basis for sensing distance at standard power voltage)
Insulation resistance	50 MOhm Min. at 500 VDC between charged parts and the case
Dielectric strength	1000 VAC 50/60 Hz for 1 minute between charged parts and the case
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	1000 m/s**2 for 10 times each in X, Y, and Z directions
Degree of protection	IEC60529: IP67 Company standard: Oil-proof
Connection method	Pre-wired models(Cable length: 5 m)
Material (case)	Brass nickel plating
Material (sensing surface)	PBT
Material (clamping nuts)	Brass nickel plating
Material (toothed washer)	Iron zinc plating
Accessories	Instruction manual

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