

Proximity Sensor Ideal for High Temperatures and Cleaning Processes

English

 Print Page 

E2EH-X3B1 5M

Inductive type, Shielded, M12*1mm, DC 3-wire models, Sensing distance 3 mm,
Operation mode NO, PNP open collector output, Pre-wired models(5 m)



Image

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

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Series

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Processes

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As of September 9, 2016

Type	Shielded
Sensing method	Inductive type
Sensing distance	3 mm-10% to +10%
Setting distance	0 to 2.4 mm
Differential distance	15% 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 32 VDC
Current consumption	10 mA max.
Control output (Output type)	PNP open collector output
Control output (Switching capacity)	0 to 100 mA(Ambient temperature of 0 to 100 CEL.) 0 to 50 mA(Ambient temperature of 100 to 120 CEL.)
Indicator	Operation indicator (yellow)
Operation mode	NO
Sensitivity setting	-
Self-diagnostic output	-
Protective circuit	Surge suppressor Output short-cut protection Output reverse polarity protection Power supply reverse polarity protection
Standard or Different frequency	Standard
Ambient temperature	Operating: 0 to 100 °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 0 to +70 CEL +/- 15% Max. of sensing distance in temperature range of +70 to +100 CEL -15% to +20% of sensing distance in temperature range of +100 to +120 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
Connection method	Pre-wired models(Cable length: 5 m)
Weight (Packed state)	approx. 150 g
Material (case)	Stainless steel (SUS316L)
Material (sensing surface)	PBT
Material (clamping nuts)	Stainless steel (SUS316L)
Accessories	Instruction manual

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