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Resin-case Proximity Sensor

E2F-X10E2 2M

Shielded, Cylinder type (with screw) M30, DC Three-wires models, Sensing distance 10 mm \pm 10%, NC, NPN, Pre-wired models

Sensing head size	M30
Туре	Cylinder type (with screw), Shielded
Power source	DC Three-wires models
Sensing distance	10 mm ±10%
Setting distance	0 to 8 mm
Operation mode	NC

Image

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Ratings/Performance

As of July 16, 2020

Sensing head size	M30
Туре	Cylinder type (with screw), Shielded
Power source	DC Three-wires models
Sensing distance	10 mm ±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	400 Hz (Average value)
Power supply voltage	12 to 24 VDC ripple (p-p) 10% max.
Operating voltage range	10 to 30 VDC
Current consumption	17 mA max.
Control output (Output type)	NPN
Control output (Switching capacity)	200 mA max.
Control output (Residual voltage)	2 V max. (Load current 200 mA with cable length of 2 m)
Indicator	Operation indicator (red)
Operation mode	NC
Protective circuit	Output short-cut protection Reverse polarity protection Surge suppressor
Ambient temperature (Operating)	-25 to 70 °C
Ambient temperature (Storage)	-25 to 70 ℃
Ambient humidity (Operating)	35 to 95% RH
Ambient humidity (Storage)	35 to 95% RH

	±10% max. of sensing distance at 23 $^\circ$ C in the temperature range of -25 to 70 $^\circ$ C
Temperature influence Voltage influence	±2.5% max. of sensing distance at rated voltage in the rated voltage ±15% range
Insulation resistance	
	Between charged parts and the case: 5 MΩ min. at 500 VDC
Dielectric strength	Between charged parts and the case: 1,000 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: IP68 Company standard: Oil-proof
Connection method	Pre-wired models (2 m)
Weight	Package: Approx. 170 g
Material	Case: Polyarylate Sensing surface: Polyarylate Clamping nuts: Polyacetal
Accessories	Instruction manual
	As of July 16, 20
Dimensions	As of July 16, 20
	57 50 41 38 41 38 41 41 41 41 41 41 41 41 41 41
* 6-dia. vinyl-insulated rot (Conductor cross section Standard length: 2m	41 -38 -38

Output circuit

Output circuit

As of July 16, 2020





