E2K-X15MF1 2M



Product Overview

Proximity sensor, capacitive, M30, unshielded, 15 mm, DC, 3-wire, PNP-NO, 2 m cable

Specifications

Specifications

Updated: 2026/03/28

Sensing head size	60 mm
Sensing head size	M30
Type	Capacitive type
Type	Unshielded
Type	Cylinder type (with screw)
Power source	DC Three-wires models
Sensing distance	15 mm ±10%
Setting distance	0 to 10 mm
Differential distance	4 to 20% of sensing distance
Sensing object	Conductor and dielectrics
Standard sensing object	With grounded metal 50 x 50 x 1 mm
Response frequency	100 Hz
Power supply voltage	12 to 24 VDC
Operating voltage range	10 to 30 VDC
Current consumption	15 mA max.
Control output (Output type)	PNP
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	Detection indicator (red)
Operation mode	NO
Protective circuit	Output short-cut protection;Output reverse polarity protection;Reverse polarity protection;Surge suppressor

Ambient temperature (Operating)	-10 to 55 °C
Ambient temperature (Storage)	-10 to 55 °C
Ambient humidity (Operating)	35 to 95%
Ambient humidity (Storage)	35 to 95%
Temperature influence	±20% max. of sensing distance at 23 °C in the temperature range of -10 to 55 °C
Voltage influence	±2% max. of sensing distance at rated voltage in the rated voltage ±20% range
Insulation resistance	50 MΩ min. at 500 VDC(Between charged parts and the case)
Dielectric strength	1,000 VAC 50/60 Hz 1 min(Between charged parts and the case)
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) 500 m/s^2 3 times each in X, Y and Z directions
Degree of protection	IP66(IEC) / Oil-proof(Company standard)
Connection method	2 m
Connection method	Pre-wired models
Weight	Approx. 205 g(Package)
Material	(Case) Heat-resistant ABS resin / (Sensing surface) Heat-resistant ABS resin / (Clamping nuts) Polyacetal
Accessories	Instruction manual

Standards certification

Standards certification

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UL	No
CSA	No
CE	Yes
CCC	N/A
Marine	No

Yes: Certified / Conform No: Not certified / Not conform N/A: Out of Scope

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