E2K-C25ME1 2M



Product Overview

Proximity sensor, capacitive, 34 mm dia, unshielded, 25 mm, DC, 3-wire, NPN-NO, 2 m cable

Specifications

Specifications

Updated: 2026/03/28

Sensing head size	82 mm
Sensing head size	34 dia.
Type	Capacitive type
Type	Unshielded
Type	Cylinder type
Power source	DC Three-wires models
Sensing distance	25 mm
Setting distance	3 to 25 mm
Differential distance	15% max. of sensing distance (when adjusted to 25 mm ±10% with standard object)
Sensing object	Conductor and dielectrics
Standard sensing object	With grounded metal 50 x 50 x 1 mm
Response frequency	70 Hz (Average value)
Power supply voltage	12 to 24 VDC ripple (p-p) 10% max.
Operating voltage range	10 to 30 VDC
Current consumption	16 mA max.(at 24 VDC) / 10 mA max.(at 12 VDC)
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	Detection indicator (red)
Operation mode	NO
Sensitivity setting	Sensitivity adjuster

Protective circuit	Reverse polarity protection;Surge suppressor
Ambient temperature (Operating)	-25 to 70 °C
Ambient temperature (Storage)	-25 to 70 °C
Ambient humidity (Operating)	35 to 95%
Ambient humidity (Storage)	35 to 95%
Temperature influence	±15% max. of sensing distance at 23 °C in the temperature range of −10 to 55 °C / ±25% max. of sensing distance at 23 °C in the temperature range of −25 to 70 °C
Voltage influence	±2% max. of sensing distance at rated voltage in the rated voltage ±15% 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 10 times each in X, Y, and Z directions
Degree of protection	IP66(IEC)
Connection method	2 m
Connection method	Pre-wired models
Weight	Approx. 200 g(Package)
Material	(Case) Heat-resistant ABS resin / (Sensing surface) Heat-resistant ABS resin
Accessories	Instruction manual;Dedicated fixture;M4 screws

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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