



**Long-distance proximity sensor,  
Sensing distance 25 mm, DC 3-wire,  
PNP, NO, Pre-wired models, 2 m,E2K-  
C25MF1**

URL:<https://www.sxplc.com/long-distance-proximity-sensor-sensing-distance-25-mm-dc-3-wire-pnp-no-pre-wired-models-2-m-e2k-c25mf1>

**Product data sheet**

Sensing head size	34 dia.

Type	Cylinder type, Capacitive type, Unshielded
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	at 24 VDC: 16 mA max. at 12 VDC: 10 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
Sensitivity setting	Sensitivity adjuster
Protective circuit	Reverse polarity protection Surge suppressor

Ambient temperature (Operating)	-25 to 70 ?
Ambient temperature (Storage)	-25 to 70 ?
Ambient humidity (Operating)	35 to 95 %

Ambient humidity (Storage)	35 to 95 %
Temperature influence	$\pm 15\%$ max. of sensing distance at 23 °C in the temperature range of 10 to 55 °C $\pm 25\%$ max. of sensing distance at 23 °C in the temperature range of 25 to 70 °C
Voltage influence	$\pm 2\%$ max. of sensing distance at rated voltage in the rated voltage $\pm 15\%$ range



Insulation resistance	Between charged parts and the case: 50 M $\Omega$ 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: 500 m/s <sup>2</sup> 10 times each in X, Y, and Z directions
Degree of protection	IEC: IP66
Connection method	Pre-wired models (2 m)
Weight	Package: Approx. 200 g

Material

Case: Heat-resistant ABS resin

Sensing surface: Heat-resistant ABS resin

