



**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

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| Sensing head size | 34 dia. |
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| Type | Cylinder type, Capacitive type, Unshielded |
| Power source | DC Three-wires models |
| Sensing distance | 25 mm |
| Setting distance | 3 to 25 mm |

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| 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 |
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| 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. |

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| 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) |
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| Indicator | Detection indicator (red) |
| Operation mode | NO |
| Sensitivity setting | Sensitivity adjuster |
| Protective circuit | Reverse polarity protection Surge suppressor |

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| Ambient temperature (Operating) | -25 to 70 ? |
| Ambient temperature (Storage) | -25 to 70 ? |
| Ambient humidity (Operating) | 35 to 95 % |
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| Ambient humidity (Storage) | 35 to 95 % |
| Temperature influence | <p>±15% max. of sensing distance at 23 °C in the temperature range of 10 to 55 °C</p> <p>±25% max. of sensing distance at 23 °C in the temperature range of 25 to 70 °C</p> |
| Voltage influence | <p>±2% max. of sensing distance at rated voltage in the rated voltage ±15% range</p> |
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| Insulation resistance | Between charged parts and the case: 50 M Ω 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 |
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| Shock resistance | Destruction: 500 m/s ² 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

