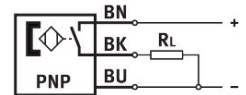


Proximity sensor

SMT-10M-PS-24V-E-2,5-Q-OE

Part number: 551374

FESTO



Data sheet

| Feature | Value |
|--|---|
| Design | For C-slot |
| Conforms to standard | EN 60947-5-2 |
| Approval | RCM trademark |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Special characteristics | Oil resistant |
| Note on materials | RoHS-compliant Free of halogen |
| Instructions on use | https://www.festo.com/Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Magneto-resistive |
| Ambient temperature | -40 °C...70 °C |
| Repetition accuracy | 0.2 mm |
| Switching output | PNP |
| Switching element function | N/O contact |
| Switch-on time | 1.3 ms |
| Switch-off time | 4.2 ms...7.3 ms |
| Max. switching frequency | 130 Hz |
| Max. output current | 100 mA |
| Max. output current using mounting kits | 50 mA |
| Max. switching capacity DC | 2.8 W |
| Max. switching capacity DC using mounting kits | 1.5 W |
| Voltage drop | 1.7 V |
| Off-state current | 0.05 mA |
| Short circuit current rating | yes |
| Overload protection | Yes |
| Rated operational voltage DC | 24 V |
| Operational voltage range DC | 5 V...30 V |
| Residual ripple | 10 % |
| Reverse polarity protection | For all electrical connections |

| Feature | Value |
|---|--|
| Electrical connection 1, connection type | Cable |
| Electrical connection 1, connector system | Open end |
| Electrical connection 1, number of connections/cores | 3 |
| Connection outlet orientation | Lateral |
| Test conditions cable | Bending strength: to Festo standard Test conditions on request Torsional strength: > 300,000 cycles, $\pm 270^\circ/0.1$ m Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length | 2.5 m |
| Cable characteristic | Suitable for energy chains/robot applications |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Material insulating sheath | PP |
| Wire ends | Wire ferrule |
| Type of mounting | Screw-clamped Insertable in the slot from above |
| Max. tightening torque | 0.4 Nm |
| Mounting position | optional |
| Product weight | 16.8 g |
| Housing colour | Black |
| Material housing | PA-reinforced High-alloy stainless steel |
| Switching status indication | Yellow LED |
| Ambient temperature with moving cable | -20 °C...70 °C |
| Degree of protection | IP65 IP68 |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |