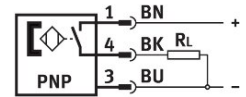


Proximity switch

SMT-10M-PS-24V-E-0,3-L-M12

Part number: 8152201

FESTO



[General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Design | For C-slot |
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00991153 |
| Approval | RCM |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | 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 |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connector system | M12x1, A-coded to EN 61076-2-101 |
| Electrical connection 1, number of connections/cores | 3 |
| Electrical connection 1, type of mounting | Rotatable |

| Feature | Value |
|---|--|
| Electrical connection 1, compatible type of mounting | Compatible with rotatable/non-rotatable screw-type lock |
| Electrical connection 1, connection pattern | 00995573 |
| Connection outlet orientation | In-line |
| Material electrical contact | Gold-plated brass |
| Material connector housing | TPE-U(PU) |
| Material screw-type lock | Brass, nickel-plated |
| Test conditions cable | Bending strength: to Festo standard Test conditions on request Torsional strength: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length | 0.3 m |
| Cable characteristic | Suitable for energy chains/robot applications |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Material insulating sheath | PP |
| Type of mounting | Screw-clamped Insertable in the slot from above |
| Max. tightening torque | 0.4 Nm |
| Mounting position | Any |
| Product weight | 14 g |
| Housing colour | Black |
| Material housing | 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 |