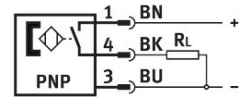


# Proximity switch

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

Part number: 8152201

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Design   | for round slot  |
| Conforms to standard                           | EN 60947-5-2  |
| Certification                                  | RCM compliance mark   |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>To UK RoHS instructions   |
| Special features                               | Oil-resistant   |
| Note on materials                              | RoHS-compliant<br>Halogen-free  |
| Application note                               | <a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a> |
| 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   |
| 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 in mounting kits           | 50 mA   |
| Max. switching capacity DC                     | 2.8 W   |
| Max. switching capacity DC in mounting kits    | 1.5 W   |
| Voltage drop                                   | 1.7 V   |
| Short-circuit protection                       | yes   |
| Overload protection                            | Available   |
| Rated operating voltage DC                     | 24 V  |
| DC operating voltage range                     | 5 V...30 V  |
| Reverse polarity protection                    | for all electrical connections  |
| Electrical connection 1, connection type       | Cable with plug   |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101   |

| Feature  | Value   |
|--|---|
| Electrical connection 1, number of pins/wires        | 3   |
| Electrical connection 1, type of mounting            | Screw-type lock   |
| Connection outlet orientation                        | Longitudinal  |
| Connector cable test conditions                      | Flexural strength: as per Festo standard<br>Test conditions on request<br>Torsion resistance: > 300,000 cycles, $\pm 270^\circ/0.1$ m<br>Energy chain > 5 million cycles, bending radius 28 mm  |
| Cable length   | 0.3 m   |
| Cable characteristic                                 | Suitable for energy chains/robot applications   |
| Material of cable sheath                             | TPE-U(PUR)  |
| Type of mounting                                     | Screwed tightly<br>Can be inserted in slot from above   |
| Max. tightening torque                               | 0.4 Nm  |
| Mounting position                                    | Any   |
| Product weight                                       | 14 g  |
| Housing material                                     | PA-reinforced<br>High-alloy stainless steel   |
| Switching status indication                          | LED yellow  |
| Ambient temperature with flexible cable installation | -20 °C...70 °C  |
| Degree of protection                                 | IP65<br>IP68  |
| LABS (PWIS) conformity                               | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries   | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                      | Class 4 according to ISO 14644-1  |