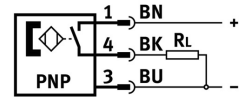


# Proximity sensor SMT-8M-A-PS-24V-E-0,3-M8D

Part number: 574334

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | for T-slot  |
| Based on norm                                  | EN 60947-5-2  |
| Symbol   | 00991153  |
| Certification                                  | RCM compliance mark<br>c UL us - Listed (OL)  |
| 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   |
| Certificate issuing authority                  | UL E232949  |
| 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 ... 85 °C  |
| Repetition accuracy                            | 0.2 mm  |
| Switching output                               | PNP   |
| Switching element function                     | N/O contact   |
| On time  | ≤1.3 ms   |
| Switch-off time                                | ≤7.3 ms   |
| Max. switching frequency                       | 130 Hz  |
| Max. output current                            | 100 mA  |
| Max. output current in mounting kits           | 100 mA  |
| Max. switching capacity DC                     | 2.8 W   |
| Max. switching capacity DC in mounting kits    | 2.8 W   |
| Voltage drop                                   | <1.5 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 | M8x1 A-coded as per EN 61076-2-104  |
| Electrical connection 1, number of pins/wires  | 3   |
| Electrical connection 1, type of mounting      | Screw-type lock   |

| Feature   | Value   |
|---|---|
| Electrical connection for input 1, connection pattern | 00991155  |
| Connection outlet orientation                         | Longitudinal  |
| Connector cable test conditions                       | Flexural strength: as per Festo standard<br>Test conditions on request<br>Torsional resistance: > 300 000 cycles, ±270°/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   |
| Color cable sheath                                    | Gray  |
| Material of cable sheath                              | TPE-U(PUR)  |
| Type of mounting                                      | Screwed tightly<br>Can be inserted in slot from above   |
| Max. tightening torque                                | 0.6 Nm  |
| Mounting position                                     | Any   |
| Product weight  | 8.9 g   |
| Housing colour  | Black   |
| Housing material                                      | Brass, nickel-plated<br>PA-reinforced<br>High-alloy stainless steel   |
| Switching status indication                           | LED yellow  |
| Function reserve indication                           | LED orange  |
| Ambient temperature with flexible cable installation  | -20 °C ... 85 °C  |
| Degree of protection                                  | IP65<br>IP68<br>IP69K   |
| LABS (PWIS) conformity                                | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries    | Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                       | Class 4 according to ISO 14644-1  |