

# Proximity Sensor

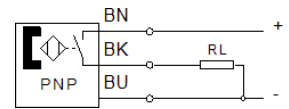
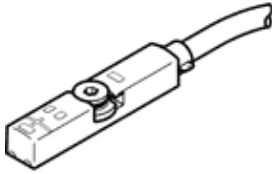
## SMT-8M-A-PS-24V-E-5,0-OE

Part number: 574336

★ Core product range

Magnetic, contactless, for T-slot.

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Design   | for T-slot  |
| Based on the standard                          | EN 60947-5-2  |
| Authorization                                  | RCM Mark<br>c UL us - Listed (OL)   |
| CE symbol (see declaration of conformity)      | according to EU-EMV guideline<br>in accordance with EU RoHS directive   |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>To UK RoHS instructions   |
| KC mark  | KC-EMV  |
| Certificate issuing department                 | UL E232949  |
| Special characteristics                        | Oil resistant   |
| Materials note                                 | Conforms to RoHS<br>Halogen-free  |
| Instructions for use                           | Link: Drive-Sensor-Overview   |
| Measured variable                              | Position  |
| Measuring principle                            | Magnetoresistive  |
| Ambient temperature                            | -40 ... 85 °C   |
| Repetition accuracy                            | 0.2 mm  |
| Switch output                                  | PNP   |
| Switching element function                     | Normally open contact   |
| Switch-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. contact rating DC                         | 2.8 W   |
| Max. switching capacity DC in mounting kits    | 2.8 W   |
| Voltage drop                                   | < 1.5 V   |
| Short circuit strength                         | Yes   |
| Overload withstand capability                  | Available   |
| Nominal operating voltage DC                   | 24 V  |
| Operating voltage range DC                     | 5 ... 30 V  |
| Polarity protected                             | for all electrical connections  |
| Electrical connection 1, connection type       | Cable   |
| Electrical connection 1, connection technology | Open end  |
| Electrical connection 1, number of pins/wires  | 3   |
| Connector exit direction                       | axial   |
| Test conditions of cable                       | Bending strength according to Festo standard<br>Test conditions on request<br>Torsion resistance: > 300,000 cycles, ±270°/0.1 m<br>Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length                                   | 5 m   |
| Cable attribute                                | Suitable for energy chains/robot applications   |
| Cable sheath color                             | Grey  |

| Feature  | Value  |
|--|--|
| Material cable sheath                                | TPE-U(PUR)                                       |
| Mounting type  | Tightened<br>Insertable in slot from above       |
| Max. tightening torque                               | 0.6 Nm   |
| Assembly position                                    | Any  |
| Product weight                                       | 57.1 g   |
| Housing color  | Black  |
| Material housing                                     | PA-reinforced<br>High alloy steel, non-corrosive |
| Operating status display                             | Yellow LED                                       |
| Operating reserve display                            | LED orange                                       |
| Ambient temperature with flexible cable installation | -20 ... 85 °C                                    |
| Protection class                                     | IP65<br>IP68<br>IP69K                            |
| PWIS conformity                                      | VDMA24364-B2-L                                   |
| RSBP classification to CD-0033                       | F1a  |
| Cleanroom class                                      | ISO class 4                                      |