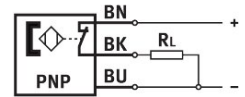


# Proximity sensor SMT-8M-A-PO-24V-E-7,5-OE

Part number: 574340

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | For T-slot  |
| Based on standard                                    | EN 60947-5-2  |
| Symbol   | 00991151  |
| Approval   | RCM trademark<br>c UL us listed (OL)  |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive   |
| UKCA marking (see declaration of conformity)         | To UK RoHS instructions   |
| Certificate issuing authority                        | UL E232949  |
| Special characteristics                              | Oil resistant   |
| Note on materials                                    | RoHS-compliant<br>Free of halogen   |
| Instructions on use                                  | <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/C 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 using mounting kits              | 100 mA  |
| Max. switching capacity DC                           | 2.8 W   |
| Max. switching capacity DC using mounting kits       | 2.8 W   |
| Voltage drop   | <1.5 V  |
| Short circuit current rating                         | yes   |
| Overload protection                                  | Yes   |
| Rated operational voltage DC                         | 24 V  |
| Operational voltage range DC                         | 5 V ... 30 V  |
| Reverse polarity protection                          | For all electrical connections  |
| Electrical connection 1, connection type             | Cable   |
| Electrical connection 1, connector system            | Open end  |
| Electrical connection 1, number of connections/cores | 3   |
| Connection outlet orientation                        | In-line   |

| Feature   | Value  |
|---|--|
| Test conditions cable                                     | Test conditions on request<br>Torsional strength: > 300,000 cycles, ±270°/0.1 m<br>Flexural strength: >50000 cycles, bending radius 5 mm<br>Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length  | 7.5 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<br>Insertable in the slot from above   |
| Max. tightening torque                                    | 0.6 Nm   |
| Mounting position   | optional   |
| Product weight  | 85.1 g   |
| Housing colour  | Black  |
| Material housing  | High-alloy stainless steel   |
| Switching status indication                               | Yellow LED   |
| Function reserve indication                               | Orange LED   |
| Ambient temperature with moving cable                     | -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        | 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   |