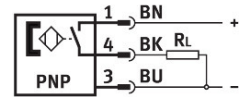


# Proximity sensor

## SMTSO-8E-PS-M12-LED-24

Part number: 191986

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Design   | for T-slot   |
| Based on norm  | 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                                     | Welding field resistant<br>Resistant to welding spatter                |
| Note on materials                                    | RoHS-compliant   |
| Application note                                     | Support / actuator-sensor overview "The right sensor for the actuator" |
| Measured variable                                    | Position   |
| Measuring principle                                  | Magneto-inductive  |
| Ambient temperature                                  | -25 °C...70 °C   |
| Repetition accuracy                                  | 0.2 mm   |
| Switching output                                     | PNP  |
| Switching characteristics during the welding process | Output signal freezes  |
| Switching element function                           | N/O contact  |
| On time  | 38 ms  |
| Switch-off time                                      | 20 ms  |
| Max. switching frequency                             | 14 Hz  |
| Max. output current                                  | 200 mA   |
| Max. switching capacity DC                           | 6 W  |
| Voltage drop   | 3 V  |
| Residual current                                     | 0.01 mA  |
| Short-circuit protection                             | Pulsed   |
| Overload protection                                  | Available  |
| DC operating voltage range                           | 10 V...30 V  |
| Residual ripple                                      | 10 %   |
| Reverse polarity protection                          | for all electrical connections   |
| Electrical connection 1, connection type             | 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                   | Transverse  |
| Material of pin contacts                        | Brass, gold-plated  |
| Type of mounting                                | Clamped in T slot<br>Can be inserted in slot from above                 |
| Mounting position                               | Any   |
| Product weight                                  | 19 g  |
| Housing colour                                  | Black   |
| Housing material                                | Wrought aluminum alloy<br>PA<br>TPE-U(PU)<br>High-alloy stainless steel |
| Switching status indication                     | LED yellow  |
| Degree of protection                            | IP65<br>IP67  |
| Resistance to interference from magnetic fields | 45 - 65 Hz<br>Alternating magnetic field                                |
| LABS (PWIS) conformity                          | VDMA24364-B2-L  |