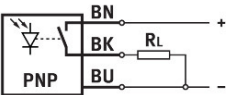


# Diffuse sensor

## SOEG-RT-M12-PS-K-2L

Part number: 547908

FESTO



## Data sheet

| Feature                                      | Value   |
|--|---|
| Design                                       | Round   |
| Conforms to standard                         | EN 60947-5-2  |
| 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 instructions for EMC<br>To UK RoHS instructions       |
| Measured variable                            | Position  |
| Measuring principle                          | Optoelectronic  |
| Measurement method                           | Diffuse sensor  |
| Type of light                                | Red   |
| Operating distance                           | 70 mm...300 mm  |
| Ambient temperature                          | -25 °C...55 °C  |
| Switching output                             | PNP   |
| Switching element function                   | Light switching   |
| Hysteresis                                   | 30 mm   |
| Max. switching frequency                     | 1000 Hz   |
| Max. output current                          | 200 mA  |
| Voltage drop                                 | 2 V   |
| Short circuit current rating                 | Pulsed  |
| Operational voltage range DC                 | 10 V...36 V   |
| Residual ripple                              | 20%   |
| No-load supply current                       | 15 mA   |
| Reverse polarity protection                  | For all electrical connections                              |
| Electrical connection                        | 3-wire<br>Cable   |
| Cable length                                 | 2.5 m   |
| Material cable sheath                        | TPE-U(PUR)  |
| Material insulating sheath                   | PVC   |
| Size   | M12   |
| Type of mounting                             | Via lock nut  |

| Feature                               | Value                         |
|---------------------------------------|-------------------------------|
| Tightening torque                     | 10 Nm                         |
| Mounting position                     | optional                      |
| Product weight                        | 100 g                         |
| Material housing                      | Brass<br>Chrome-plated        |
| Switching status indication           | Yellow LED                    |
| Function reserve indication           | Green LED                     |
| Setting options                       | Potentiometer                 |
| Setting range lower limit             | 70 mm                         |
| Setting range upper limit             | 300 mm                        |
| Ambient temperature with moving cable | -5 °C...55 °C                 |
| Degree of protection                  | IP65<br>IP67                  |
| Corrosion resistance class CRC        | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity                | VDMA24364 zone III            |