

# Diffuse sensor SOEG-RTH-M18-PS-K-2L

Part number: 537687

FESTO



[General operating condition](#)

## Data sheet

| Feature                                      | Value   |
|--|---|
| Design                                       | Round   |
| Conforms to standard                         | EN 60947-5-2  |
| Symbol                                       | 00991638  |
| Approval                                     | RCM<br>c UL us - Listed (Oil)                               |
| 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                                     |
| Measured variable                            | Position  |
| Measuring principle                          | Optoelectronic  |
| Measurement method                           | Diffuse sensor with background suppression                  |
| Type of light                                | Red   |
| Operating distance                           | 10 mm ... 120 mm  |
| Ambient temperature                          | -25 °C ... 55 °C  |
| Switching output                             | PNP   |
| Switching element function                   | Light switching   |
| Max. switching frequency                     | 500 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                       | 25 mA   |
| Reverse polarity protection                  | For all electrical connections                              |
| Electrical connection                        | Cable   |
| Cable length                                 | 2.5 m   |
| Material cable sheath                        | TPE-U(PUR)  |
| Size   | M18x1   |
| Type of mounting                             | Via lock nut  |
| Tightening torque                            | 20 Nm   |
| Product weight                               | 121 g   |
| Material housing                             | Chrome-plated   |
| Material union nut                           | Brass<br>Chrome-plated                                      |
| Switching status indication                  | Yellow LED  |
| Function reserve indication                  | Green LED   |

| <b>Feature</b>                        | <b>Value</b>             |
|---------------------------------------|--------------------------|
| Setting options                       | Poti                     |
| Setting range lower limit             | 10 mm                    |
| Setting range upper limit             | 120 mm                   |
| Ambient temperature with moving cable | -5 °C ... 55 °C          |
| Degree of protection                  | IP65<br>IP67             |
| Corrosion resistance class CRC        | 1 - Low corrosion stress |
| LABS (PWIS) conformity                | VDMA24364-B2-L           |