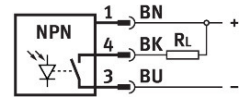
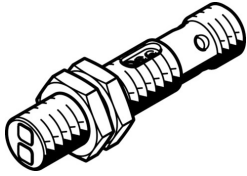


# Diffuse sensor SOEG-RT-M12-NS-S-2L

Part number: 547907

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                      | Value                                                       |
|----------------------------------------------|-------------------------------------------------------------|
| Design                                       | Round                                                       |
| Conforms to standard                         | EN 60947-5-2                                                |
| Symbol                                       | 00991640                                                    |
| 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                             | NPN                                                         |
| 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-pin<br>M12x1<br>Plugs                                     |
| Size                                         | M12                                                         |
| Type of mounting                             | Via lock nut                                                |
| Tightening torque                            | 10 Nm                                                       |
| Mounting position                            | optional                                                    |
| Product weight                               | 20 g                                                        |
| Material housing                             | Chrome-plated                                               |
| Switching status indication                  | Yellow LED                                                  |
| Function reserve indication                  | Green LED                                                   |

| Feature                               | Value                         |
|---------------------------------------|-------------------------------|
| 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            |