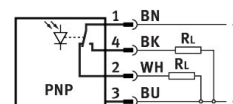
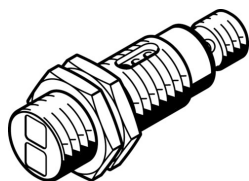


# Diffuse sensor SOEG-RT-M18-PA-S-2L

Part number: 547913

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                 | Value                                |
|-----------------------------------------|--------------------------------------|
| Design                                  | Round                                |
| Conforms to standard                    | EN 60947-5-2                         |
| Symbol                                  | 00991637                             |
| Approval                                | RCM trademark<br>c UL us listed (OL) |
| CE mark (see declaration of conformity) | To EU EMC Directive                  |
| Measured variable                       | Position                             |
| Measuring principle                     | Optoelectronic                       |
| Measurement method                      | Diffuse sensor                       |
| Type of light                           | Red                                  |
| Operating distance                      | 40 mm ... 600 mm                     |
| Ambient temperature                     | -25 °C ... 55 °C                     |
| Switching output                        | PNP                                  |
| Switching element function              | Antivalent                           |
| Hysteresis                              | ≤60 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                  | 20 mA                                |
| Reverse polarity protection             | For all electrical connections       |
| Electrical connection                   | 4-pin<br>M12x1<br>Plugs              |
| Size                                    | M18                                  |
| Type of mounting                        | Via lock nut                         |
| Tightening torque                       | 20 Nm                                |
| Mounting position                       | optional                             |
| Product weight                          | 53 g                                 |
| Material housing                        | Brass<br>Chrome-plated               |
| Switching status indication             | Yellow LED                           |
| Function reserve indication             | Green LED                            |
| Setting options                         | Potentiometer                        |
| Setting range lower limit               | 40 mm                                |

| Feature                               | Value                         |
|---------------------------------------|-------------------------------|
| Setting range upper limit             | 600 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            |