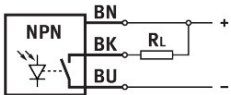
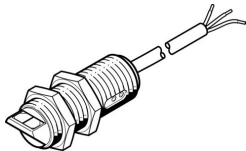


**Diffuse scan**  
**SOEG-RTH-M18W-NS-K-2L**  
Part number: 537706

**FESTO**



**Data sheet**

| Feature                                    | Value                                        |
|--------------------------------------------|----------------------------------------------|
| Design                                     | Round                                        |
| Conforms to standard                       | EN 60947-5-2                                 |
| Certification                              | RCM compliance mark<br>c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive                      |
| Measured variable                          | Position                                     |
| Measuring principle                        | Optoelectronic                               |
| Method of measurement                      | Diffuse sensor with background suppression   |
| Type of light                              | Red                                          |
| Working range                              | 10 mm...120 mm                               |
| Ambient temperature                        | -25 °C...55 °C                               |
| Switching output                           | NPN                                          |
| Switching element function                 | Bright-switching                             |
| Max. switching frequency                   | 500 Hz                                       |
| Max. output current                        | 200 mA                                       |
| Voltage drop                               | 2 V                                          |
| Short-circuit protection                   | Pulsed                                       |
| DC operating voltage range                 | 10 V...36 V                                  |
| Residual ripple                            | 20 %                                         |
| Idle current                               | 25 mA                                        |
| Reverse polarity protection                | for all electrical connections               |
| Electrical connection                      | 3-wire<br>Cable                              |
| Cable length                               | 2.5 m                                        |
| Material of cable sheath                   | TPE-U(PUR)                                   |
| Size                                       | M18x1                                        |
| Type of mounting                           | With lock nut                                |
| Tightening torque                          | 20 Nm                                        |
| Product weight                             | 124 g                                        |
| Housing material                           | Brass<br>Chrome-plated                       |

| Feature                                              | Value                    |
|------------------------------------------------------|--------------------------|
| Material of union nut                                | Brass<br>Chrome-plated   |
| Switching status indication                          | LED yellow               |
| Function reserve indication                          | LED green                |
| Setting options                                      | Potentiometer            |
| Setting range, lower limit                           | 10 mm                    |
| Setting range, upper limit                           | 120 mm                   |
| Ambient temperature with flexible cable installation | -5 °C...55 °C            |
| Degree of protection                                 | IP65<br>IP67             |
| Corrosion resistance class (CRC)                     | 1 - Low corrosion stress |
| LABS (PWIS) conformity                               | VDMA24364-B2-L           |