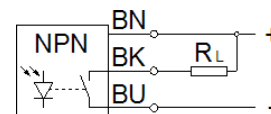
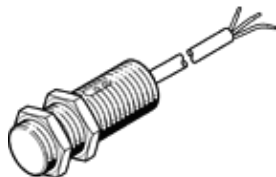


# diffuse sensor SOEG-RTH-M18-NS-K-2L

Part number: 537705

FESTO

With background suppression, round design



## Data sheet

| Feature  | Value   |
|--|---|
| Design   | Round   |
| Conforms to standard                                 | EN 60947-5-2  |
| Authorisation  | RCM Mark<br>c UL us - Listed (OL)                     |
| CE mark (see declaration of conformity)              | to EU directive for EMC                               |
| Measured variable                                    | Position  |
| Measuring principle                                  | Optoelectronic  |
| Measurement method                                   | Diffuse reflection sensor with background suppression |
| Type of light  | Red   |
| Working range  | 10 ... 120 mm   |
| Ambient temperature                                  | -25 ... 55 °C   |
| Switch output  | NPN   |
| Switching element function                           | Light switching                                       |
| Max. switching frequency                             | 500 Hz  |
| Max. output current                                  | 200 mA  |
| Voltage drop   | ≤ 2 V   |
| Short circuit strength                               | Pulsing   |
| Operating voltage range DC                           | 10 ... 36 V   |
| Residual ripple                                      | 20 %  |
| Idle current   | 25 mA   |
| Polarity protected                                   | for all electrical connections                        |
| Electrical connection                                | 3-core<br>Cable                                       |
| Cable length   | 2.5 m   |
| Material cable sheath                                | TPE-U(PUR)  |
| Size   | M18x1   |
| Mounting type  | with lock nut   |
| Tightening torque                                    | 20 Nm   |
| Product weight                                       | 121 g   |
| Material housing                                     | Brass<br>Chromed-plated                               |
| Material of union nut                                | Brass<br>Chromed-plated                               |
| Operating status display                             | Yellow LED  |
| Operating reserve display                            | Green LED   |
| Setting options                                      | Potentiometer   |
| Setting range lower limit                            | 10 mm   |
| Upper limit of adjustment range                      | 120 mm  |
| Ambient temperature with flexible cable installation | -5 ... 55 °C  |
| Protection class                                     | IP65<br>IP67  |
| Corrosion resistance classification CRC              | 1 - Low corrosion stress                              |
| PWIS conformity                                      | VDMA24364-B2-L  |