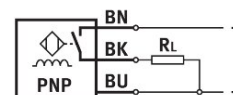
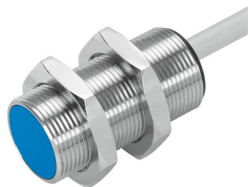


# Proximity sensor SIEH-M18B-PS-K-L

Part number: 150458

**FESTO**



## Data sheet

| Feature                                        | Value                                                                                                |
|------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 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<br>As per EU RoHS directive                                                  |
| UKCA marking (see declaration of conformity)   | according to UK regulations for EMC (UK-E)<br>according to UK RoHS regulations (UK-R)                |
| Note on materials                              | RoHS-compliant                                                                                       |
| Rated operating distance                       | 8 mm                                                                                                 |
| Assured operating distance                     | 6.48 mm                                                                                              |
| Reduction factors                              | Aluminum = 0.35<br>Stainless steel St 18/8 = 0.7<br>Copper = 0.3<br>Brass = 0.4<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C...70 °C                                                                                       |
| Repetition accuracy                            | 0.4 mm                                                                                               |
| Switching output                               | PNP                                                                                                  |
| Switching element function                     | N/O contact                                                                                          |
| Hysteresis                                     | 0.88 mm                                                                                              |
| Max. switching frequency                       | 1500 Hz                                                                                              |
| Max. output current                            | 200 mA                                                                                               |
| Voltage drop                                   | 2 V                                                                                                  |
| Short-circuit protection                       | Pulsed                                                                                               |
| DC operating voltage range                     | 10 V...30 V                                                                                          |
| Residual ripple                                | +/- 20 %                                                                                             |
| Idle current                                   | 10 mA                                                                                                |
| Reverse polarity protection                    | for all electrical connections                                                                       |
| Electrical connection 1, connection type       | Cable                                                                                                |
| Electrical connection 1, connection technology | Open end                                                                                             |
| Electrical connection 1, number of pins/wires  | 3                                                                                                    |
| Cable length                                   | 2.5 m                                                                                                |
| Material of cable sheath                       | TPE-U(PUR)                                                                                           |

| Feature                                              | Value                             |
|------------------------------------------------------|-----------------------------------|
| Size                                                 | M18                               |
| Type of mounting                                     | With lock nut                     |
| Tightening torque                                    | 20 Nm                             |
| Mounting type                                        | Flush                             |
| Product weight                                       | 108 g                             |
| Housing material                                     | Brass<br>PBTP<br>Nickel-plated    |
| Switching status indication                          | LED yellow                        |
| Ambient temperature with flexible cable installation | -5 °C...70 °C                     |
| Degree of protection                                 | IP67                              |
| Surge resistance                                     | 0.8 kV                            |
| LABS (PWIS) conformity                               | VDMA24364-B2-L                    |
| Contamination level                                  | 3                                 |
| Selection of additional sensor information           | With increased switching distance |
| Electrical output                                    | PNP                               |
| Selection of sensor version                          | Standard                          |