

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

Part number: 150458

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Conforms to standard                           | EN 60947-5-2   |
| Symbol   | 00991702   |
| 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 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)   |
| Size   | M18  |
| Type of mounting                               | With lock nut  |
| Tightening torque                              | 20 Nm  |
| Mounting type                                  | Flush  |

| <b>Feature</b>                                       | <b>Value</b>                      |
|--|-----------------------------------|
| Product weight                                       | 108 g                             |
| Housing material                                     | 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                          |