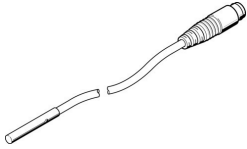


# Proximity sensor SIEH-3B-PS-S-L

Part number: 538263

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Design   | Round  |
| Conforms to standard                           | EN 60947-5-2   |
| Symbol   | 00991701   |
| 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)  |
| Measuring principle                            | Inductive  |
| Rated operating distance                       | 1 mm   |
| Assured operating distance                     | 0.81 mm  |
| Reduction factors                              | Aluminum = 0.5<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.45<br>Brass = 0.6<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C ... 70 °C   |
| Repetition accuracy                            | 0.02 mm  |
| Switching output                               | PNP  |
| Switching element function                     | N/O contact  |
| Hysteresis                                     | ≤0.12 mm   |
| On time  | 0.02 ms  |
| Max. switching frequency DC                    | 3000 Hz  |
| Max. output current                            | 100 mA   |
| Voltage drop                                   | ≤2 V   |
| Inductive protective circuit                   | Installed<br>Output current <100 mA<br>and switching frequency < 10 Hz                               |
| Residual current                               | ≤0.1 mA  |
| 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 with plug  |
| Electrical connection 1, connection technology | M8x1 A-coded as per EN 61076-2-104   |
| Electrical connection 1, number of pins/wires  | 3  |
| Electrical connection 1, type of mounting      | not rotatable  |

| Feature  | Value   |
|--|---|
| Electrical connection 1, type of mounting            | Compatible with snap-locking<br>Compatible with rotatable screw-type lock |
| Cable length   | 0.15 m  |
| Material of cable sheath                             | TPE-U(PUR)  |
| Insulating sheath material                           | PVC   |
| Size   | 3 mm  |
| Type of mounting                                     | Clamped   |
| Mounting type  | Flush   |
| Product weight                                       | 4 g   |
| Housing material                                     | High-alloy stainless steel  |
| Switching status indication                          | LED yellow  |
| Ambient temperature with flexible cable installation | -5 °C ... 70 °C   |
| Degree of protection                                 | IP67  |
| Corrosion resistance class (CRC)                     | 1 - Low corrosion stress  |
| LABS (PWIS) conformity                               | VDMA24364-B2-L  |
| Selection of additional sensor information           | With increased switching distance   |
| Electrical output                                    | PNP   |
| Selection of sensor version                          | Standard  |