

# Proximity sensor SIEH-M12B-NO-S-L

Part number: 150453

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Conforms to standard                                 | EN 60947-5-2   |
| Symbol   | 00992831   |
| Approval   | C-Tick<br>c UL us listed (OL)  |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity)         | according to UK RoHS instructions (UK-R)   |
| Rated operating distance                             | 4 mm   |
| Assured operating distance                           | 3.24 mm  |
| Reduction factors                                    | Aluminium = 0.4<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.4<br>Brass = 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                                  | -25 °C ... 70 °C   |
| Repetition accuracy with constant conditions         | 0.2 mm   |
| Switching output                                     | NPN  |
| Switching element function                           | N/C contact  |
| Hysteresis   | ≤0.36 mm   |
| Max. switching frequency                             | 2500 Hz  |
| Max. output current                                  | 200 mA   |
| Voltage drop   | ≤2 V   |
| Inductive protective circuit                         | Integrated   |
| Short circuit current rating                         | Pulsed   |
| Operational voltage range DC                         | 10 V ... 30 V  |
| Residual ripple                                      | ± 10%  |
| No-load supply current                               | ≤10 mA   |
| Reverse polarity protection                          | For all electrical connections   |
| Electrical connection 1, connection type             | Plugs  |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101   |
| Electrical connection 1, number of connections/cores | 4  |
| Electrical connection 1, type of mounting            | Not rotatable  |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable screw-type lock  |
| Size   | M12  |
| Type of mounting                                     | Via lock nut   |
| Mounting type  | Flush  |
| Product weight                                       | 30 g   |

| <b>Feature</b>                              | <b>Value</b>                    |
|---|---------------------------------|
| Material housing                            | PBTP<br>Nickel-plated           |
| Switching status indication                 | Yellow LED                      |
| Ambient temperature with moving cable       | -5 °C ... 70 °C                 |
| Degree of protection                        | IP65<br>IP67                    |
| Corrosion resistance class CRC              | 2 - Moderate corrosion stress   |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                  |
| Additional information for sensor selection | with increased sensing distance |
| Electrical output                           | NPN                             |
| Selection of sensor design                  | Standard                        |