

# Proximity sensor SIEH-M18B-NS-S-L

Part number: 150457

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Conforms to standard                                 | EN 60947-5-2  |
| Symbol   | 00991703  |
| Approval   | RCM<br>c UL us - Listed (Oil)   |
| 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)  |
| Note on materials                                    | RoHS compliant  |
| Rated operating distance                             | 8 mm  |
| Assured operating distance                           | 6.48 mm   |
| Reduction factors                                    | Aluminium = 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                                     | NPN   |
| 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 current rating                         | Pulsed  |
| Operational voltage range DC                         | 10 V ... 30 V   |
| Residual ripple                                      | +/-20%  |
| No-load supply current                               | ≤10 mA  |
| Reverse polarity protection                          | For all electrical connections  |
| Electrical connection 1, connection type             | Plug  |
| 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   | M18   |
| Type of mounting                                     | Via lock nut  |
| Tightening torque                                    | 20 Nm   |
| Mounting type  | Flush   |

| <b>Feature</b>                              | <b>Value</b>                      |
|---|-----------------------------------|
| Product weight                              | 43 g                              |
| Material housing                            | PBTP<br>nickel-plated             |
| Switching status indication                 | Yellow LED                        |
| Ambient temperature with moving cable       | -5 °C ... 70 °C                   |
| Degree of protection                        | IP67                              |
| Immunity to surge                           | 0.8 kV                            |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                    |
| Pollution degree                            | 3                                 |
| Additional information for sensor selection | With increased switching distance |
| Electrical output                           | NPN                               |
| Selection of sensor design                  | Standard                          |