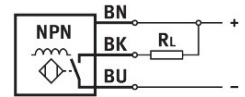
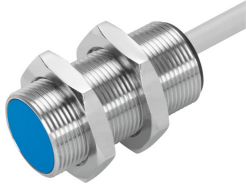


# Proximity sensor SIEH-M18B-NS-K-L

Part number: 150456

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                              | Value                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Conforms to standard                                 | EN 60947-5-2                                                                                          |
| Symbol                                               | 00991704                                                                                              |
| Approval                                             | RCM trademark<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)         | To UK instructions for EMC (UK-E)<br>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             | Cable                                                                                                 |
| Electrical connection 1, connector system            | Open end                                                                                              |
| Electrical connection 1, number of connections/cores | 3                                                                                                     |
| Cable length                                         | 2.5 m                                                                                                 |
| Material cable sheath                                | TPE-U(PUR)                                                                                            |
| Size                                                 | M18                                                                                                   |
| Type of mounting                                     | Via lock nut                                                                                          |
| Tightening torque                                    | 20 Nm                                                                                                 |
| Mounting type                                        | Flush                                                                                                 |

| Feature                                     | Value                           |
|---------------------------------------------|---------------------------------|
| Product weight                              | 108 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 sensing distance |
| Electrical output                           | NPN                             |
| Selection of sensor design                  | Standard                        |