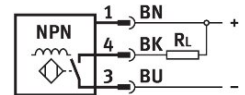


# Proximity sensor SIEF-M12NB-NS-S-L

Part number: 538313

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | Round   |
| Conforms to standard                           | EN 60947-5-2  |
| Symbol   | 00991703  |
| 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 low voltage directive<br>As per EU RoHS directive              |
| UKCA marking (see declaration of conformity)   | To UK RoHS instructions<br>To UK instructions for electrical equipment                              |
| Measuring principle                            | Inductive   |
| Rated operating distance                       | 8 mm  |
| Assured operating distance                     | 6.48 mm   |
| Reduction factors                              | Aluminum = 1.0<br>Stainless steel St 18/8 = 1.0<br>Copper = 1.0<br>Brass = 1.0<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -30 °C ... 85 °C  |
| Repetition accuracy                            | 0.16 mm   |
| Switching output                               | NPN   |
| Switching element function                     | N/O contact   |
| Hysteresis                                     | 0.24 mm ... 1.2 mm  |
| Max. switching frequency DC                    | 2000 Hz   |
| Max. output current                            | 200 mA  |
| Voltage drop                                   | ≤1.8 V  |
| Short-circuit protection                       | Pulsed  |
| DC operating voltage range                     | 10 V ... 30 V   |
| Residual ripple                                | 10 %  |
| Idle current                                   | ≤15 mA  |
| Reverse polarity protection                    | for all electrical connections  |
| Electrical connection                          | M12x1<br>Plug   |
| Electrical connection 1, connection type       | Plug  |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101   |
| Electrical connection 1, number of pins/wires  | 3   |
| Electrical connection 1, type of mounting      | not rotatable   |
| Electrical connection 1, type of mounting      | Compatible with rotatable screw-type lock   |

| <b>Feature</b>                                  | <b>Value</b>  |
|---|---|
| Size  | M12   |
| Type of mounting                                | With lock nut   |
| Tightening torque                               | 10 Nm   |
| Mounting type                                   | Not flush   |
| Product weight                                  | 22 g  |
| Housing material                                | PBT<br>Chrome-plated                                    |
| Switching status indication                     | LED yellow  |
| Degree of protection                            | IP67  |
| Resistance to interference from magnetic fields | Magnetic direct and alternating fields                  |
| Corrosion resistance class (CRC)                | 2 - Moderate corrosion stress                           |
| LABS (PWIS) conformity                          | VDMA24364 zone III                                      |
| Selection of additional sensor information      | with reduction factor 1 – resistance to magnetic fields |
| Electrical output                               | NPN   |
| Selection of sensor version                     | Standard  |