

# Proximity sensor SIEF-M18NB-PS-S-L

Part number: 538315

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Design   | Round  |
| Conforms to standard                                 | EN 60947-5-2   |
| Symbol   | 00991701   |
| Approval   | RCM trademark<br>c UL us listed (OL)   |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive           |
| UKCA marking (see declaration of conformity)         | To UK RoHS instructions<br>To UK regulations for electrical equipment                                |
| Measuring principle                                  | Inductive  |
| Rated operating distance                             | 12 mm  |
| Assured operating distance                           | 9.72 mm  |
| Reduction factors                                    | Aluminium = 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                                  | 0.24 mm  |
| Switching output                                     | PNP  |
| Switching element function                           | N/O contact  |
| Hysteresis   | 0.36 mm ... 1.8 mm   |
| Max. switching frequency DC                          | 2000 Hz  |
| Max. output current                                  | 200 mA   |
| Voltage drop   | ≤1.8 V   |
| Short circuit current rating                         | Pulsed   |
| Operational voltage range DC                         | 10 V ... 30 V  |
| Residual ripple                                      | 10 %   |
| No-load supply current                               | ≤15 mA   |
| Reverse polarity protection                          | For all electrical connections   |
| Electrical connection                                | M12x1<br>Plugs   |
| 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 | 3  |
| Electrical connection 1, type of mounting            | Not rotatable  |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable screw-type lock  |

| <b>Feature</b>                              | <b>Value</b>                                     |
|---|--|
| Size  | M18  |
| Type of mounting                            | Via lock nut                                     |
| Tightening torque                           | 25 Nm  |
| Mounting type                               | Not flush  |
| Product weight                              | 38 g   |
| Material housing                            | PBT<br>Chrome-plated                             |
| Switching status indication                 | Yellow LED                                       |
| Degree of protection                        | IP67   |
| Immunity to magnetic fields                 | Magnetic direct and alternating field            |
| Corrosion resistance class CRC              | 2 - Moderate corrosion stress                    |
| LABS (PWIS) conformity                      | VDMA24364 zone III                               |
| Additional information for sensor selection | Reduction factor 1, resistant to magnetic fields |
| Electrical output                           | PNP  |
| Selection of sensor design                  | Standard   |