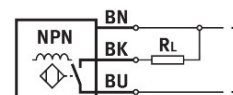
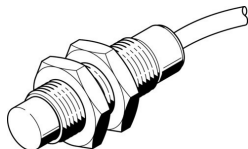


# Proximity sensor SIEF-M18NB-NS-K-L

Part number: 538318

**FESTO**



## Data sheet

| Feature                                      | Value  |
|--|--|
| Design                                       | Round  |
| Conforms to standard                         | EN 60947-5-2   |
| 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 instructions for EMC<br>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                             | NPN  |
| 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                        | 3-wire<br>Cable  |
| Cable length                                 | 2.5 m  |

| Feature                                     | Value  |
|---|--|
| Material cable sheath                       | TPE-U(PUR)                                       |
| Material insulating sheath                  | PVC  |
| Size  | M18  |
| Type of mounting                            | Via lock nut                                     |
| Tightening torque                           | 25 Nm  |
| Mounting type                               | Not flush  |
| Product weight                              | 141 g  |
| Material housing                            | Brass<br>PBT<br>Chrome-plated                    |
| Switching status indication                 | Yellow LED                                       |
| Ambient temperature with moving cable       | 0 °C...80 °C                                     |
| Degree of protection                        | IP67   |
| Immunity to magnetic fields                 | Magnetic direct and alternating field            |
| Corrosion resistance class CRC              | 2 - Moderate corrosion stress                    |
| Additional information for sensor selection | Reduction factor 1, resistant to magnetic fields |
| Electrical output                           | NPN  |
| Selection of sensor design                  | Standard   |