

# Proximity sensor SIEN-M18NB-PO-K-L

Part number: 150430

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Conforms to standard                                 | EN 60947-5-2   |
| Symbol   | 00991613   |
| 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)         | 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 = 0.5<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.4<br>Brass = 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                                  | -25 °C ... 70 °C   |
| Repetition accuracy                                  | 0.4 mm   |
| Switching output                                     | PNP  |
| Switching element function                           | N/C contact  |
| Hysteresis   | ≤0.88 mm   |
| Max. switching frequency                             | 2000 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   | M18x1  |
| Type of mounting                                     | Via lock nut   |
| Tightening torque                                    | 20 Nm  |
| Mounting type  | Not flush  |

| <b>Feature</b>                              | <b>Value</b>                   |
|---|--------------------------------|
| Product weight                              | 105 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 standard sensing distance |
| Electrical output                           | PNP                            |
| Selection of sensor design                  | Standard                       |