

# Proximity sensor SIEN-M18NB-PS-K-L-PA

Part number: 538331

FESTO



[General operating condition](#)

## Data sheet

| Feature                                      | Value  |
|--|--|
| Design                                       | Round  |
| Conforms to standard                         | EN 60947-5-2   |
| Symbol                                       | 00991702   |
| 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                     | 8 mm   |
| Assured operating distance                   | 6.48 mm  |
| Reduction factors                            | Aluminium = 0.35 - 0.5<br>Stainless steel St 18/8 = 0.6 - 1.0<br>Copper = 0.25 - 0.45<br>Brass = 0.35 - 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                          | -25 °C ... 70 °C   |
| Repetition accuracy                          | 0.16 mm  |
| Switching output                             | PNP  |
| Switching element function                   | N/O contact  |
| Hysteresis                                   | 0.24 mm ... 1.2 mm   |
| Max. switching frequency DC                  | 500 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  |
| Material cable sheath                        | PVC  |
| Material insulating sheath                   | PVC  |
| Size   | M18  |

| <b>Feature</b>                              | <b>Value</b>                   |
|---|--------------------------------|
| Type of mounting                            | Via lock nut                   |
| Tightening torque                           | 2 Nm                           |
| Mounting type                               | Not flush                      |
| Product weight                              | 127 g                          |
| Material housing                            | PA-reinforced                  |
| Switching status indication                 | Yellow LED                     |
| Ambient temperature with moving cable       | 0 °C ... 70 °C                 |
| Degree of protection                        | IP65<br>IP67                   |
| Corrosion resistance class CRC              | 4 - Very high corrosion stress |
| Additional information for sensor selection | with standard sensing distance |
| Electrical output                           | PNP                            |
| Selection of sensor design                  | Polyamide housing              |