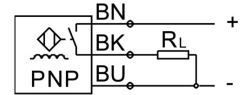


# Proximity sensor SIEN-M12B-PS-K-L-PA

Part number: 538323

FESTO



## Data sheet

| Feature                                    | Value   |
|--|---|
| Type code                                  | SIEN  |
| Design                                     | Round   |
| Conforms to standard                       | EN 60947-5-2  |
| Symbol                                     | 00991702  |
| Certification                              | RCM compliance mark<br>c UL us - Listed (OL)  |
| CE marking (see declaration of conformity) | As per EU EMC directive   |
| Note on materials                          | Free of copper and PTFE   |
| Measuring principle                        | Inductive   |
| Rated operating distance                   | 2 mm  |
| Assured operating distance                 | 1.62 mm   |
| Reduction factors                          | Aluminum = 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                        | 0.04 mm   |
| Switching output                           | PNP   |
| Switching element function                 | N/O contact   |
| Hysteresis                                 | 0.06 mm ... 0.3 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                      | 3-wire<br>Cable   |
| Cable length                               | 2.5 m   |
| Material of cable sheath                   | PVC   |
| Insulating sheath material                 | PVC   |
| Size                                       | M12   |
| Type of mounting                           | With lock nut   |
| Tightening torque                          | 1 Nm  |

| Feature  | Value                                  |
|--|--|
| Mounting type  | Flush                                  |
| Product weight                                       | 113 g                                  |
| Housing material                                     | PA-reinforced                          |
| Switching status indication                          | LED yellow                             |
| Ambient temperature with flexible cable installation | 0 °C ... 70 °C                         |
| Degree of protection                                 | IP65<br>IP67                           |
| Corrosion resistance class (CRC)                     | 4 - Particularly high corrosion stress |
| Selection of additional sensor information           | With standard switching distance       |
| Electrical output                                    | PNP                                    |
| Selection of sensor version                          | Polyamide housing                      |