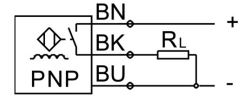


# Proximity sensor SIEN-M18B-PS-K-L-PA

Part number: 538325

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                   | 5 mm                                                                                                                            |
| Assured operating distance                 | 4.05 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                        | 0.1 mm                                                                                                                          |
| Switching output                           | PNP                                                                                                                             |
| Switching element function                 | N/O contact                                                                                                                     |
| Hysteresis                                 | 0.15 mm ... 0.75 mm                                                                                                             |
| Max. switching frequency DC                | 1000 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                                       | M18                                                                                                                             |
| Type of mounting                           | With lock nut                                                                                                                   |
| Tightening torque                          | 2 Nm                                                                                                                            |

| Feature                                              | Value                                  |
|------------------------------------------------------|----------------------------------------|
| Mounting type                                        | Flush                                  |
| Product weight                                       | 127 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                      |