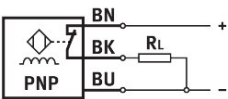


# Proximity sensor SIEN-M12NB-PO-K-L

Part number: 150414

FESTO



## Data sheet

| Feature                                              | Value                                                                                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 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>In accordance with EU RoHS Directive                                          |
| UKCA marking (see declaration of conformity)         | according to UK instructions for EMC (UK-E)<br>according to UK RoHS instructions (UK-R)              |
| Rated operating distance                             | 4 mm                                                                                                 |
| Assured operating distance                           | 3.24 mm                                                                                              |
| Reduction factors                                    | Aluminium = 0.5<br>Stainless steel St 18/8 = 0.9<br>Copper = 0.5<br>Brass = 0.6<br>Steel St 37 = 1.0 |
| Ambient temperature                                  | -25 °C...70 °C                                                                                       |
| Repetition accuracy with constant conditions         | 0.2 mm                                                                                               |
| Switching output                                     | PNP                                                                                                  |
| Switching element function                           | N/C contact                                                                                          |
| Hysteresis                                           | 0.36 mm                                                                                              |
| Max. switching frequency                             | 2000 Hz                                                                                              |
| Max. output current                                  | 200 mA                                                                                               |
| Voltage drop                                         | 2 V                                                                                                  |
| Inductive protective circuit                         | Integrated                                                                                           |
| Short circuit current rating                         | Pulsed                                                                                               |
| Operational voltage range DC                         | 10 V...30 V                                                                                          |
| Residual ripple                                      | ± 10%                                                                                                |
| 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)                                                                                           |

| Feature                                     | Value                          |
|---------------------------------------------|--------------------------------|
| Size                                        | M12x1                          |
| Type of mounting                            | Via lock nut                   |
| Mounting type                               | Not flush                      |
| Product weight                              | 90 g                           |
| Material housing                            | Brass<br>PBTP<br>Nickel-plated |
| Switching status indication                 | Yellow LED                     |
| Ambient temperature with moving cable       | -5 °C...70 °C                  |
| Degree of protection                        | IP65<br>IP67                   |
| Corrosion resistance class CRC              | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                 |
| Additional information for sensor selection | with standard sensing distance |
| Electrical output                           | PNP                            |
| Selection of sensor design                  | Standard                       |