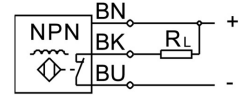


# Proximity sensor SIEN-M12B-NO-K-L

Part number: 150404

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Conforms to standard                         | EN 60947-5-2                                                                                         |
| Symbol                                       | 00991643                                                                                             |
| Approval                                     | RCM trademark<br>c UL us listed (OL)                                                                 |
| CE mark (see declaration of conformity)      | To EU EMC Directive                                                                                  |
| Rated operating distance                     | 2 mm                                                                                                 |
| Assured operating distance                   | 1.62 mm                                                                                              |
| Reduction factors                            | Aluminium = 0.4<br>Stainless steel St 18/8 = 0.6<br>Copper = 0.3<br>Brass = 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                          | -25 °C ... 70 °C                                                                                     |
| Repetition accuracy with constant conditions | 0.1 mm                                                                                               |
| Switching output                             | NPN                                                                                                  |
| Switching element function                   | N/C contact                                                                                          |
| Hysteresis                                   | ≤0.18 mm                                                                                             |
| Max. switching frequency                     | 3000 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                        | Cable                                                                                                |
| Cable length                                 | 2.5 m                                                                                                |
| Material cable sheath                        | TPE-U(PUR)                                                                                           |
| Size                                         | M12x1                                                                                                |
| Type of mounting                             | Via lock nut                                                                                         |
| Mounting type                                | Flush                                                                                                |
| Product weight                               | 110 g                                                                                                |
| Material housing                             | Brass<br>PBTP<br>Nickel-plated                                                                       |
| Switching status indication                  | Yellow LED                                                                                           |
| Ambient temperature with moving cable        | -5 °C ... 70 °C                                                                                      |

| Feature                                     | Value                          |
|---------------------------------------------|--------------------------------|
| 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                           | NPN                            |
| Selection of sensor design                  | Standard                       |