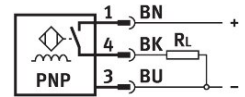


# Proximity sensor SIEN-M8B-PS-S-L

Part number: 150387

**FESTO**



## Data sheet

| Feature                                        | Value                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Conforms to standard                           | EN 60947-5-2                                                                                          |
| Certification                                  | RCM compliance mark<br>c UL us - Listed (OL)                                                          |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive                                                   |
| UKCA marking (see declaration of conformity)   | according to UK regulations for EMC (UK-E)<br>according to UK RoHS regulations (UK-R)                 |
| Note on materials                              | RoHS compliant                                                                                        |
| Rated operating distance                       | 1.5 mm                                                                                                |
| Assured operating distance                     | 1.21 mm                                                                                               |
| Reduction factors                              | Aluminum = 0.25<br>Stainless steel St 18/8 = 0.7<br>Copper = 0.2<br>Brass = 0.35<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C...70 °C                                                                                        |
| Repetition accuracy under constant conditions  | 0.07 mm                                                                                               |
| Switching output                               | PNP                                                                                                   |
| Switching element function                     | N.O. contact                                                                                          |
| Hysteresis                                     | 0.07 mm                                                                                               |
| Max. switching frequency                       | 5000 Hz                                                                                               |
| Max. output current                            | 200 mA                                                                                                |
| Voltage drop                                   | 2 V                                                                                                   |
| Inductive protective circuit                   | Installed                                                                                             |
| Short-circuit protection                       | Pulsed                                                                                                |
| DC operating voltage range                     | 10 V...30 V                                                                                           |
| Residual ripple                                | ±10 %                                                                                                 |
| Idle current                                   | 10 mA                                                                                                 |
| Reverse polarity protection                    | for all electrical connections                                                                        |
| Electrical connection 1, connection type       | Plug                                                                                                  |
| Electrical connection 1, connection technology | M8x1 A-coded as per EN 61076-2-104                                                                    |
| Electrical connection 1, number of pins/wires  | 3                                                                                                     |
| Electrical connection 1, type of mounting      | Snap-locking<br>Screw-type lock                                                                       |

| Feature                                              | Value                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                      | not rotatable<br>Compatible with snap-locking<br>Compatible with rotatable screw-type lock |
| Size                                                 | M8x1                                                                                       |
| Type of mounting                                     | With locknut                                                                               |
| Mounting type                                        | Flush                                                                                      |
| Product weight                                       | 18 g                                                                                       |
| Housing material                                     | Brass<br>PA<br>high-alloy stainless steel<br>Chrome-plated                                 |
| Switching status indication                          | Yellow LED                                                                                 |
| Ambient temperature with flexible cable installation | -5 °C...70 °C                                                                              |
| Degree of protection                                 | IP65<br>IP67                                                                               |
| Corrosion resistance class (CRC)                     | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                               | VDMA24364-B2-L                                                                             |
| Selection of additional sensor information           | With standard switching distance                                                           |
| Electrical output                                    | PNP                                                                                        |
| Selection of sensor version                          | Standard                                                                                   |