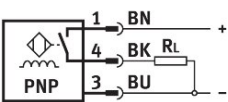


# Proximity sensor SIEN-6,5B-PS-S-L

Part number: 150379

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                             | 1.5 mm                                                                                                 |
| Assured operating distance                           | 1.21 mm                                                                                                |
| Reduction factors                                    | Aluminium = 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 with 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                         | 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             | Plugs                                                                                                  |
| Electrical connection 1, connector system            | M8x1, A-coded, to EN 61076-2-104                                                                       |
| Electrical connection 1, number of connections/cores | 3                                                                                                      |
| Electrical connection 1, type of mounting            | Snap-locking<br>Screw-type lock<br>Not rotatable                                                       |

| Feature                                              | Value                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------|
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock |
| Size                                                 | 6.5 mm                                                                     |
| Type of mounting                                     | Clamped                                                                    |
| Mounting type                                        | Flush                                                                      |
| Product weight                                       | 4 g                                                                        |
| Material housing                                     | Brass<br>PA<br>High-alloy stainless steel<br>Chrome-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                                                                   |