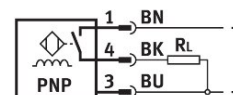


# Proximity sensor SIEF-M8NB-PS-S-L

Part number: 538307

**FESTO**



## Data sheet

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Design                                       | Round                                                                                                |
| 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 low voltage directive<br>As per EU RoHS directive               |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK instructions for electrical equipment |
| Measuring principle                          | Inductive                                                                                            |
| Rated operating distance                     | 4 mm                                                                                                 |
| Assured operating distance                   | 3.24 mm                                                                                              |
| Reduction factors                            | Aluminum = 1.0<br>Stainless steel St 18/8 = 1.0<br>Copper = 1.0<br>Brass = 1.0<br>Steel St 37 = 1.0  |
| Ambient temperature                          | -30 °C...85 °C                                                                                       |
| Repetition accuracy                          | 0.08 mm                                                                                              |
| Switching output                             | PNP                                                                                                  |
| Switching element function                   | N.O. contact                                                                                         |
| Hysteresis                                   | 0.12 mm...0.6 mm                                                                                     |
| Max. switching frequency DC                  | 2000 Hz                                                                                              |
| Max. output current                          | 150 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-pin<br>M8x1<br>Plug                                                                                |

| Feature                                         | Value                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 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<br>not rotatable<br>Compatible with snap-locking<br>Compatible with rotatable screw-type lock |
| Size                                            | M8                                                                                                                            |
| Type of mounting                                | With locknut                                                                                                                  |
| Tightening torque                               | 10 Nm                                                                                                                         |
| Mounting type                                   | Not flush                                                                                                                     |
| Product weight                                  | 19 g                                                                                                                          |
| Housing material                                | PA<br>high-alloy stainless steel                                                                                              |
| Switching status indication                     | Yellow LED                                                                                                                    |
| Degree of protection                            | IP67                                                                                                                          |
| Resistance to interference from magnetic fields | Magnetic direct and alternating fields                                                                                        |
| Corrosion resistance class (CRC)                | 4 - Particularly high corrosion stress                                                                                        |
| LABS (PWIS) conformity                          | VDMA24364 Zone III                                                                                                            |
| Selection of additional sensor information      | with reduction factor 1 – resistance to magnetic fields                                                                       |
| Electrical output                               | PNP                                                                                                                           |
| Selection of sensor version                     | Standard                                                                                                                      |