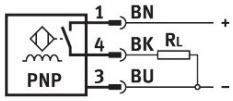
# Proximity sensor
# SIEF-M8NB-PS-S-L

Part number: 538307






## Data sheet

| Feature | Value |
|---|---|
| Design | Round |
| 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>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK regulations for electrical equipment |
| Measuring principle | Inductive |
| Rated operating distance | 4 mm |
| Assured operating distance | 3.24 mm |
| Reduction factors | Aluminium = 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 current rating | Pulsed |
| Operational voltage range DC | 10 V...30 V |
| Residual ripple | 10 % |
| No-load supply current | 15 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection | 3-pin<br>M8x1<br>Plugs |

| Feature | Value |
|---|---|
| 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 |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock |
| Size | M8 |
| Type of mounting | Via lock nut |
| Tightening torque | 10 Nm |
| Mounting type | Not flush |
| Product weight | 19 g |
| Material housing | PA<br>High-alloy stainless steel |
| Switching status indication | Yellow LED |
| Degree of protection | IP67 |
| Immunity to magnetic fields | Magnetic direct and alternating field |
| Corrosion resistance class CRC | 4 - Very high corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Additional information for sensor selection | Reduction factor 1, resistant to magnetic fields |
| Electrical output | PNP |
| Selection of sensor design | Standard |