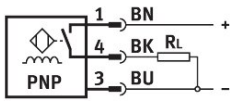
# Proximity sensor
# SIEH-M12B-PS-S-L-CR

Part number: 538251






## 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) |
| Rated operating distance | 6 mm |
| Assured operating distance | 4.86 mm |
| Reduction factors | Aluminum = 1.0<br>Stainless steel, 1 mm thick = 0.45<br>Stainless steel, 2 mm thick = 0.9<br>Copper = 0.85<br>Brass = 1.3<br>Steel St 37 = 1.0 |
| Ambient temperature | -25 °C...70 °C |
| Switching output | PNP |
| Switching element function | N.O. contact |
| Reproducibility, switching value FS | 0.3 mm |
| Hysteresis | 0.73 mm |
| Max. switching frequency | 600 Hz |
| Max. output current | 200 mA |
| Voltage drop | 2 V |
| Inductive protective circuit | Installed<br>Output current <100 mA<br>and switching frequency < 10 Hz |
| Short-circuit protection | Pulsed |
| DC operating voltage range | 10 V...30 V |
| Residual ripple | 20% |
| Idle current | 12 mA |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101 |
| Electrical connection 1, number of pins/wires | 4 |

| Feature | Value |
|---|---|
| Electrical connection 1, type of mounting | Screw-type lock<br>not rotatable<br>Compatible with rotatable screw-type lock |
| Size | M12 |
| Type of mounting | With locknut |
| Mounting type | Flush |
| Product weight | 28 g |
| Housing material | High-alloy steel |
| Switching status indication | Yellow LED |
| Ambient temperature with flexible cable installation | -5 °C...70 °C |
| Degree of protection | IP67<br>IP69K |
| Resistance to sensor fitting pressure | 80 bar |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Selection of additional sensor information | With increased switching distance |
| Electrical output | PNP |
| Selection of sensor version | Fully stainless steel housing |