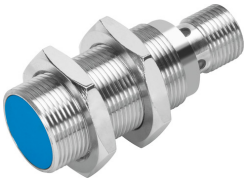
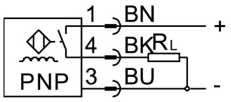
# Proximity sensor
# SIEH-M18B-PS-S-L

Part number: 150459






## Data sheet

| Feature | Value |
|---|---|
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00991701 |
| Certification | RCM compliance mark<br>c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| Note on materials | RoHS-compliant |
| Rated operating distance | 8 mm |
| Assured operating distance | 6.48 mm |
| Reduction factors | Aluminum = 0.35<br>Stainless steel St 18/8 = 0.7<br>Copper = 0.3<br>Brass = 0.4<br>Steel St 37 = 1.0 |
| Ambient temperature | -25 °C ... 70 °C |
| Repetition accuracy | 0.4 mm |
| Switching output | PNP |
| Switching element function | N/O contact |
| Hysteresis | ≤0.88 mm |
| Max. switching frequency | 1500 Hz |
| Max. output current | 200 mA |
| Voltage drop | ≤2 V |
| Short-circuit protection | Pulsed |
| DC operating voltage range | 10 V ... 30 V |
| Residual ripple | +/- 20 % |
| Idle current | ≤10 mA |
| Reverse polarity protection | for all electrical connections |
| Electrical connection | 3-pin<br>M12x1<br>Plug |
| Size | M18 |
| Type of mounting | With lock nut |
| Tightening torque | 20 Nm |
| Mounting type | Flush |
| Product weight | 43 g |
| Housing material | Brass<br>PBTP<br>Nickel-plated |
| Switching status indication | LED yellow |

| Feature | Value |
|---|---|
| Ambient temperature with flexible cable installation | -5 °C ... 70 °C |
| Degree of protection | IP67 |
| Surge resistance | 0.8 kV |
| Contamination level | 3 |
| Selection of additional sensor information | With increased switching distance |
| Electrical output | PNP |
| Selection of sensor version | Standard |