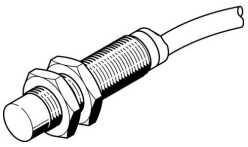
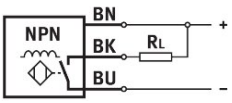
# Proximity sensor
# SIEF-M12NB-NS-K-L

Part number: 538314






## 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 | 8 mm |
| Assured operating distance | 6.48 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 | 0.16 mm |
| Switching output | NPN |
| Switching element function | N/O contact |
| Hysteresis | 0.24 mm...1.2 mm |
| Max. switching frequency DC | 2000 Hz |
| Max. output current | 200 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-wire<br>Cable |
| Electrical connection 1, connection type | Cable |

| Feature | Value |
|---|---|
| Electrical connection 1, connector system | Open end |
| Electrical connection 1, number of connections/cores | 3 |
| Cable length | 2.5 m |
| Material cable sheath | TPE-U(PUR) |
| Material insulating sheath | PVC |
| Size | M12 |
| Type of mounting | Via lock nut |
| Tightening torque | 10 Nm |
| Mounting type | Not flush |
| Product weight | 120 g |
| Material housing | Brass<br>PBT<br>Chrome-plated |
| Switching status indication | Yellow LED |
| Ambient temperature with moving cable | 0 °C...80 °C |
| Degree of protection | IP67 |
| Immunity to magnetic fields | Magnetic direct and alternating field |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Additional information for sensor selection | Reduction factor 1, resistant to magnetic fields |
| Electrical output | NPN |
| Selection of sensor design | Standard |