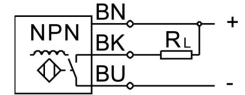


Proximity sensor SIEN-M12NB-NS-K-L-PA

Part number: 538330

FESTO



Data sheet

| Feature | Value |
|--|---|
| Type code | SIEN |
| Design | Round |
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00991704 |
| Certification | RCM compliance mark c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| Note on materials | Free of copper and PTFE |
| Measuring principle | Inductive |
| Rated operating distance | 4 mm |
| Assured operating distance | 3.24 mm |
| Reduction factors | Aluminum = 0.35 - 0.5 Stainless steel St 18/8 = 0.6 - 1.0 Copper = 0.25 - 0.45 Brass = 0.35 - 0.5 Steel St 37 = 1.0 |
| Ambient temperature | -25 °C ... 70 °C |
| Repetition accuracy | 0.08 mm |
| Switching output | NPN |
| Switching element function | N/O contact |
| Hysteresis | 0.12 mm ... 0.6 mm |
| Max. switching frequency DC | 2000 Hz |
| Max. output current | 200 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-wire Cable |
| Cable length | 2.5 m |
| Material of cable sheath | PVC |
| Insulating sheath material | PVC |
| Size | M12 |
| Type of mounting | With lock nut |
| Tightening torque | 1 Nm |

| Feature | Value |
|--|--|
| Mounting type | Not flush |
| Product weight | 113 g |
| Housing material | PA-reinforced |
| Switching status indication | LED yellow |
| Ambient temperature with flexible cable installation | 0 °C ... 70 °C |
| Degree of protection | IP65 IP67 |
| Corrosion resistance class (CRC) | 4 - Particularly high corrosion stress |
| Selection of additional sensor information | With standard switching distance |
| Electrical output | NPN |
| Selection of sensor version | Polyamide housing |