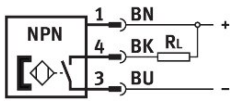
# Proximity sensor
# SDBT-BSW-1L-NU-W-0.3-N-M12

Part number: 2427615






## Data sheet

| Feature | Value |
|---|---|
| Design | For T-slot |
| Based on norm | 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) | To UK instructions for EMC<br>To UK RoHS instructions |
| Special features | UV-resistant<br>Oil-resistant<br>Welding field resistant<br>Welding spatter-resistant |
| Note on materials | RoHS compliant |
| Application note | https://www.festo.com/Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Magneto-resistive |
| Ambient temperature | -25 °C...85 °C |
| Max. travel speed | 1 m/s |
| Repetition accuracy | 0.2 mm |
| Switching output | NPN |
| Switching characteristics during the welding process | Output signal freezes |
| Switching element function | N.O. contact |
| On time | 15 ms |
| Switch-off time | 25 ms |
| Max. switching frequency | 25 Hz |
| Max. output current | 100 mA |
| Max. output current in mounting kits | 100 mA |
| Max. switching capacity DC | 2.8 W |
| Max. switching capacity DC in mounting kits | 2.8 W |
| Voltage drop | 1.5 V |
| Inductive protective circuit | Adapted to MZ, MY and ME coils |
| Minimum load current | 0 mA |
| Residual current | 0.14 mA |

| Feature | Value |
|---|---|
| Short-circuit protection | Yes |
| Overload protection | Yes |
| Rated operating voltage DC | 24 V |
| DC operating voltage range | 10 V...30 V |
| Residual ripple | 10% |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101 |
| Electrical connection 1, number of pins/wires | 3 |
| Electrical connection 1, type of mounting | Screw-type lock<br>Rotatable<br>Compatible with rotatable/non-rotatable screw-type lock |
| Connection outlet orientation | Longitudinal |
| Material of pin contacts | Brass, nickel-plated and gold-plated |
| Material of plug housing | TPE-U(PU) |
| Material of screw-type lock | Brass, nickel-plated |
| Connector cable test conditions | Flexural strength: as per Festo standard<br>Test conditions on request |
| Cable length | 0.3 m |
| Cable characteristic | Welding spatter-resistant |
| Color cable sheath | Gray |
| Material of cable sheath | Cross-linked PVC |
| Insulating sheath material | PVC |
| Type of mounting | Screwed on<br>Can be inserted in slot from above |
| Max. tightening torque | 0.6 Nm |
| Mounting position | Any |
| Product weight | 23.3 g |
| Housing colour | Black |
| Housing material | Epoxy<br>PA-reinforced<br>high-alloy stainless steel |
| Switching status indication | Yellow LED |
| Function reserve indication | Orange LED |
| Ambient temperature with flexible cable installation | -5 °C...80 °C |
| Degree of protection | IP65<br>IP68 |
| Resistance to interference from magnetic fields | Insensitive to AC magnetic fields (50...60 Hz) < 200 mT<br>Insensitive to MFDC magnetic fields (1000 Hz) < 200 mT<br>Design insensitive to permanent magnetic fields < Bon |
| LABS (PWIS) conformity | VDMA24364-B2-L |