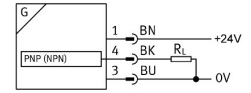


Proximity switch SDBT-MSX-1L-PU-E-0.3-N-M12

Part number: 8222734

FESTO



[PDF General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Design | For T-slot |
| Based on standard | EN 60947-5-2 |
| Symbol | 00995962 |
| Approval | RCM c UL us - Listed (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Certificate issuing authority | UL E232949 |
| Note on materials | RoHS compliant Free of halogen |
| Instructions on use | https://www.festo.com/Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Magnetic Hall |
| Ambient temperature | -40 °C ... 85 °C |
| Max. travel speed | 3 m/s |
| Repetition accuracy | 0.1 mm |
| Switching output | PNP/NPN, switchable |
| Switching element function | N/O or N/C contact, switchable |
| Hysteresis | 0.2 mm |
| Switch-on time | ≤2 ms |
| Switch-off time | ≤2 ms |
| Max. switching frequency | 200 Hz |
| Max. output current | 100 mA |
| Max. output current using mounting kits | 100 mA |
| Max. switching capacity DC | 2.8 W |
| Max. switching capacity DC using mounting kits | 2.8 W |
| Voltage drop | <1.5 V |
| Min. load current | 0.15 mA |
| Off-state current | <0.2 mA |
| Short circuit current rating | Yes |
| Overload protection | Yes |
| Rated operational voltage DC | 24 V |
| Operational voltage range DC | 10 V ... 30 V |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Cable with plug |

| Feature | Value |
|---|--|
| Electrical connection 1, connector system | M12x1, A-coded to EN 61076-2-101 |
| Electrical connection 1, number of connections/cores | 3 |
| Electrical connection 1, type of mounting | Rotatable |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable/non-rotatable screw-type lock |
| Electrical connection 1, connection pattern | 00991155 |
| Connection outlet orientation | In-line |
| Material screw-type lock | Brass, nickel-plated |
| Test conditions cable | Bending strength: to Festo standard Test conditions on request Torsional strength: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length | 0.3 m |
| Cable characteristic | Suitable for energy chains/robot applications |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Type of mounting | Screw-clamped Insertable in the slot from above |
| Max. tightening torque | 0.6 Nm |
| Mounting position | Any |
| Product weight | 12 g |
| Housing colour | Black |
| Material housing | Reinforced PA High-alloy stainless steel |
| Switching status indication | Yellow LED |
| Status indication | Green LED |
| Setting options | Auto teach-in Capacitive pushbutton |
| Ambient temperature with moving cable | -20 °C ... 85 °C |
| Degree of protection | IP65 IP68 IP69K |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |