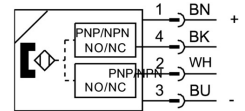


Position sensor SRBS-Q12-32-E270-EP-1-S-M8

Part number: 2393549

FESTO



Data sheet

| Feature | Value |
|---|--|
| Type code | SRBS |
| Design | Round |
| Based on norm | EN 60947-5-2 |
| Symbol | 00995400 |
| Certification | RCM compliance mark c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| KC characters | KC EMC |
| Special features | Oil-resistant |
| Note on materials | RoHS-compliant Halogen-free |
| Measured variable | Rotation angle |
| Measuring principle | Magnetic Hall |
| Sensing range | >270 deg |
| Ambient temperature | -20 °C ... 70 °C |
| Typical sampling interval | 3 ms |
| Switching output | 2 x PNP or 2 x NPN switchable |
| Switching element function | N/C contact/N/O contact switchable |
| Switching point reproducibility | ≤ 1 ° |
| On time | ≤ 4 ms |
| Switch-off time | ≤ 4 ms |
| Max. switching frequency | 125 Hz |
| Max. output current | 50 mA |
| Max. switching capacity DC | 1.5 W |
| Voltage drop | < 1 V |
| Short-circuit protection | yes |
| Overload protection | Available |
| 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 | M8x1 A-coded as per EN 61076-2-104 |
| Electrical connection 1, number of pins/wires | 4 |
| Electrical connection 1, type of mounting | Screw-type lock |
| Electrical connection for input 1, connection pattern | 00991171 |

| Feature | Value |
|--|--|
| Connection outlet orientation | Longitudinal |
| Material of pin contacts | Copper alloy Gold-plated |
| Connector cable test conditions | Flexural strength: as per Festo standard Cable chain: 5 million cycles, bending radius 28 mm Torsional resistance: > 300 000 cycles, ±270°/0.1 m |
| Cable length | 0.3 m |
| Cable characteristic | Suitability for energy chains/robot applications |
| Color cable sheath | Gray |
| Material of cable sheath | TPE-U(PUR) |
| Type of mounting | Screwed tightly |
| Mounting position | Any |
| Product weight | 81 g |
| Housing material | PA-reinforced Polyester |
| Material of union nut | Brass, nickel-plated |
| Film material | Polyester |
| Switching status indication | LED yellow |
| Setting options | Pushbutton |
| Ambient temperature with flexible cable installation | -20 °C ... 70 °C |
| Degree of protection | IP65 IP68 |
| Protection class | III |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |