

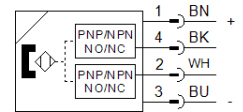
position sensor SRBS-Q12-6-E270-EP-1-S-M8

Part number: 2619969

★ Core product range

is used to detect the rotation of the shaft for quarter turn actuators, sensing is magnetic and contactless.

FESTO



Data sheet

| Feature | Value |
|--|---|
| Design | Round |
| Based on the standard | EN 60947-5-2 |
| Authorisation | RCM Mark c UL us - Listed (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| KC mark | KC-EMV |
| Special characteristics | Oil resistant |
| Materials note | Conforms to RoHS Halogen-free |
| Measured variable | Rotation angle |
| Measuring principle | Hall magnetic |
| Sensing range | > 270 deg |
| Ambient temperature | -20 ... 70 °C |
| Typical scanning interval | 3 ms |
| Switch output | 2 x PNP or 2 x NPN switchable |
| Switching element function | N/C or N/O contact, switchable |
| Switching point reproducibility | ≤ 1 ° |
| Switch-on time | < 4 ms |
| Switch-off time | < 4 ms |
| Max. switching frequency | 125 Hz |
| Max. output current | 50 mA |
| Max. contact rating DC | 1.5 W |
| Voltage drop | < 1 V |
| Residual current | < 0.05 mA |
| Short circuit strength | Yes |
| Overload withstand capability | Available |
| Nominal operating voltage DC | 24 V |
| Operating voltage range DC | 10 ... 30 V |
| Residual ripple | 10 % |
| Idle current | ≤ 20 mA |
| Polarity protected | for all electrical connections |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connection technology | M8x1, A-coded to EN 61076-2-104 |
| Electrical connection 1, number of pins/wires | 4 |
| Electrical connection 1, type of mounting | Screw lock |
| Connector exit direction | axial |
| Material electrical contact | Gold-plated copper alloy |
| Test conditions of cable | Bending strength according to Festo standard Torsion resistance: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 28 mm |

| Feature | Value |
|--|--|
| Cable length | 0.3 m |
| Cable attribute | Suitable for energy chains/robot applications |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Cable diameter | 2.9 mm |
| Mounting type | Tightened |
| Assembly position | Any |
| Product weight | 25 g |
| Housing colour | Black |
| Material housing | PA-reinforced Polyester |
| Material of union nut | Nickel-plated brass |
| Material foil | Polyester |
| Operating status display | Yellow LED |
| Setting options | Pushbutton |
| Storage temperature | -30 ... 70 °C |
| Ambient temperature with flexible cable installation | -20 ... 70 °C |
| Protection class | IP65 IP68 |
| Safety class | III |
| Shock resistance | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 |
| Vibration resistance | Transport application test with severity level 3 in accordance with FN 942017-4 and EN 60068-2-6 |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B2-L |