

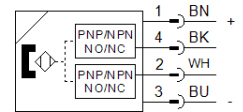
# Position sensor SRBS-Q12-16-E270-EP-1-S-M8

Part number: 2393547

★ 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
Authorization	RCM Mark c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline 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

<b>Feature</b>	<b>Value</b>
Cable length	0.3 m
Cable attribute	Suitable for energy chains/robot applications
Cable sheath color	Grey
Material cable sheath	TPE-U(PUR)
Cable diameter	2.9 mm
Mounting type	Tightened
Assembly position	Any
Product weight	55 g
Housing color	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