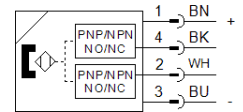# position sensor
SRBS-Q12-6-E270-EP-1-S-M8

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
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
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
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	Copper alloy
	Gold plated
Test conditions of cable	Bending strength according to Festo standard
	Chain link trunking: 5 million cycles, bending radius 28 mm
	Torsion resistance: › 300,000 cycles, ±270°/0.1 m
Cable length	0.3 m
Cable attribute	Energy chain + robot
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)

Feature	Value
Mounting type	Tightened
Assembly position	Any
Product weight	25 g
Material housing	Nickel-plated brass
	PA-reinforced
	Polyester
Material of union nut	Nickel-plated brass
Material foil	Polyester
Operating status display	Yellow LED
Setting options	Pushbutton
Ambient temperature with flexible cable installation	-20 … 70 °C
Protection class	IP65
	IP68
Safety class	III
Corrosion resistance classification CRC	2 - Moderate corrosion stress