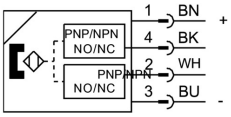
Position sensor
SRBS-Q12-32-E270-EP-1-S-M8

Part number: 2393549



Data sheet

Feature	Value
Type code	SRBS
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, connection type	Cable with plug
Electrical connection for input 1, connection pattern	00991171
KC characters	KC EMC
Electrical connection 1, number of pins/wires	4
Design	Round
Based on norm	EN 60947-5-2
Symbol	00995400
Certification	c UL us - Listed (OL) RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive
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

Feature	Value
Connection outlet orientation	Longitudinal
Material of pin contacts	Gold-plated Copper alloy
Connector cable test conditions	Flexural strength: as per Festo standard Torsional resistance: › 300 000 cycles, ±270°/0.1 m Cable chain: 5 million cycles, bending radius 28 mm
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 Brass, nickel-plated 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