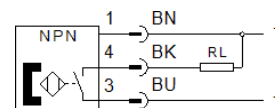
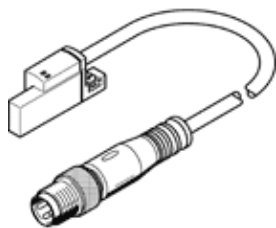


Proximity Sensor

SDBT-BSW-1L-NU-W-0.3-N-M12

Part number: 2427615

FESTO



Data sheet

Feature	Value
Design	for T-slot
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	UV resistant Oil resistant Welding field immune Resistant to welding spatter
Materials note	Conforms to RoHS
Instructions for use	Support / Actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-25 ... 85 °C
Max. travel speed	1 m/s
Repetition accuracy	0.2 mm
Switch output	NPN
Switching characteristics during the welding process	Output signal freezes
Switching element function	Normally open contact
Switch-on time	≤ 15 ms
Switch-off time	≤ 25 ms
Max. switching frequency	25 Hz
Max. output current	100 mA
Max. output current in mounting kits	100 mA
Max. contact rating DC	2.8 W
Max. switching capacity DC in mounting kits	2.8 W
Voltage drop	< 1.5 V
Inductive protective circuit	Adapted to MZ-, MY-, ME coils
Minimum load current	0 mA
Residual current	< 0.14 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 %
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw lock
Connector exit direction	axial
Material electrical contact	Nickel-plated and gold-plated brass

Feature	Value
Material connector housing	TPE-U(PU)
Test conditions of cable	Bending strength according to Festo standard Test conditions on request
Cable length	0.3 m
Cable attribute	Resistant to welding spatter
Cable sheath color	Grey
Material cable sheath	PVC, irradiated
Material insulation	PVC
Mounting type	Tightened Insertable in slot from above
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	23.3 g
Housing color	Black
Material housing	Epoxy resin PA-reinforced High alloy steel, non-corrosive
Material of union nut	Nickel-plated brass
Operating status display	Yellow LED
Operating reserve display	LED orange
Ambient temperature with flexible cable installation	-5 ... 80 °C
Protection class	IP65 IP68
Interference immunity to magnetic fields	Insensitive to alternating magnetic fields (50 ... 60 Hz) < 200 mT Insensitive to MFDC magnetic fields (1000 Hz) < 200 mT Design insensitive to permanent magnetic fields < Bon
PWIS conformity	VDMA24364-B2-L