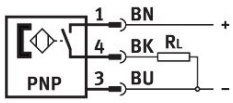
Proximity sensor
SDBT-BSW-1L-PU-W-0.3-N-M12

Part number: 2476855





Data sheet

Feature	Value
Design	For T-slot
Based on norm	EN 60947-5-2
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Special features	UV-resistant Oil-resistant Welding field resistant Welding spatter-resistant
Note on materials	RoHS compliant
Application note	https://www.festo.com/Drive-Sensor-Overview
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-25 °C...85 °C
Max. travel speed	1 m/s
Repetition accuracy	0.2 mm
Switching output	PNP
Switching characteristics during the welding process	Output signal freezes
Switching element function	N.O. contact
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. switching capacity 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 and ME coils
Minimum load current	0 mA
Residual current	0.005 mA

Feature	Value
Short-circuit protection	Yes
Overload protection	Yes
Rated operating voltage DC	24 V
DC operating voltage range	10 V...30 V
Residual ripple	10%
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock Rotatable Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	Longitudinal
Material of pin contacts	Brass, nickel-plated and gold-plated
Material of plug housing	TPE-U(PU)
Material of screw-type lock	Brass, nickel-plated
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request
Cable length	0.3 m
Cable characteristic	Welding spatter-resistant
Color cable sheath	Gray
Material of cable sheath	Cross-linked PVC
Insulating sheath material	PVC
Type of mounting	Screwed on Can be inserted in slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	23.3 g
Housing colour	Black
Housing material	Epoxy PA-reinforced high-alloy stainless steel
Switching status indication	Yellow LED
Function reserve indication	Orange LED
Ambient temperature with flexible cable installation	-5 °C...80 °C
Degree of protection	IP65 IP68
Resistance to interference from magnetic fields	Insensitive to AC magnetic fields (50...60 Hz) < 200 mT Insensitive to MFDC magnetic fields (1000 Hz) < 200 mT Design insensitive to permanent magnetic fields < Bon
LABS (PWIS) conformity	VDMA24364-B2-L