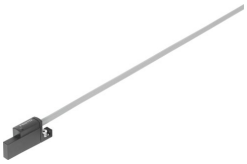
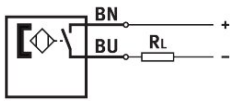
Proximity sensor
SDBT-BSW-1L-ZU-W-5-N-LE

Part number: 2427617





Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Special characteristics	UV resistant Oil resistant Welding field resistant Resistant to welding spatter
Note on materials	RoHS-compliant
Instructions on use	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	Non-contacting, 2-wire
Switching behavior during welding process	Output signal freezes
Switching element function	N/O contact
Switch-on time	15 ms
Switch-off time	25 ms
Max. switching frequency	25 Hz
Max. output current	80 mA
Max. output current using mounting kits	80 mA
Max. switching capacity DC	1.9 W
Max. switching capacity DC using mounting kits	1.9 W
Voltage drop	6 V
Inductive protective circuit	Adapted to MZ, MY, ME coils
Min. load current	2.4 mA
Off-state current	0.7 mA

Feature	Value
Short circuit current rating	yes
Overload protection	Yes
Rated operational voltage DC	24 V
Operational voltage range DC	10 V...30 V
Residual ripple	10 %
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	2
Connection outlet orientation	In-line
Test conditions cable	Bending strength: to Festo standard Test conditions on request
Cable length	5 m
Cable characteristic	Resistant to welding spatter
Cable sheath colour	Grey
Material cable sheath	PVC, irradiated
Material insulating sheath	PVC
Wire ends	Wire ferrule
Type of mounting	Screw-clamped Insertable in the slot from above
Max. tightening torque	0.6 Nm
Mounting position	optional
Product weight	116.9 g
Housing colour	Black
Material housing	Epoxy resin PA-reinforced High-alloy stainless steel
Switching status indication	Yellow LED
Function reserve indication	Orange LED
Ambient temperature with moving cable	-5 °C...80 °C
Degree of protection	IP65 IP68
Immunity to magnetic fields	Insensitive to AC magnetic fields (50...60 Hz) < 160 mT Design insensitive to permanent magnetic fields < Bon
LABS (PWIS) conformity	VDMA24364-B2-L