

# Proximity sensor SDBT-BSW-1L-PU-W-5-N-LE

Part number: 2427616

FESTO



[General operating condition](#)

## Data sheet

Feature	Value
Design	for T-slot
Based on norm	EN 60947-5-2
Symbol	00991152
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 RoHS instructions
Special features	UV-resistant Oil-resistant Welding field resistant Resistant to welding spatter
Note on materials	RoHS-compliant
Application note	<a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a>
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
Short-circuit protection	yes
Overload protection	Yes
Rated operating voltage DC	24 V
DC operating voltage range	10 V ... 30 V

Feature	Value
Residual ripple	10 %
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Connection outlet orientation	Longitudinal
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request
Cable length	5 m
Cable characteristic	Resistant to welding spatter
Color cable sheath	Gray
Material of cable sheath	PVC, cross-linked by irradiation
Insulating sheath material	PVC
Wire ends	Cable end sleeve
Type of mounting	Screwed tightly Can be inserted in slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	119.4 g
Housing colour	Black
Housing material	High-alloy stainless steel
Switching status indication	LED yellow
Function reserve indication	LED orange
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