

# Proximity sensor SDBT-BSW-1L-NU-W-0.3-N-M12

Part number: 2427615

FESTO



[General operating condition](#)

## Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Symbol	00991150
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	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	<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	NPN
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	100 mA
Max. output current using mounting kits	100 mA
Max. switching capacity DC	2.8 W
Max. switching capacity DC using mounting kits	2.8 W
Voltage drop	<1.5 V
Inductive protective circuit	Adapted to MZ, MY, ME coils
Min. load current	0 mA
Off-state current	<0.14 mA
Short circuit current rating	Yes
Overload protection	Yes
Rated operational voltage DC	24 V
Operational voltage range DC	10 V ... 30 V

Feature	Value
Residual ripple	10%
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, connection pattern	00995573
Connection outlet orientation	In-line
Material electrical contact	Brass, nickel-plated and gold-plated
Material connector housing	TPE-U(PU)
Material screw-type lock	Brass, nickel-plated
Test conditions cable	Bending strength: to Festo standard Test conditions on request
Cable length	0.3 m
Cable characteristic	Resistant to welding spatter
Cable sheath colour	Grey
Material cable sheath	PVC, irradiated
Material insulating sheath	PVC
Type of mounting	Screw-clamped Insertable in the slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	23.3 g
Housing colour	Black
Material housing	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) < 200 mT Insensitive to MFDC magnetic fields (1000 Hz) < 200 mT Design insensitive to permanent magnetic fields < Bon
LABS (PWIS) conformity	VDMA24364-B2-L