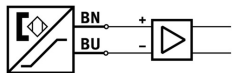
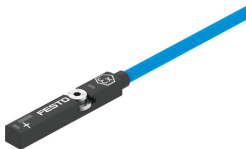


Proximity sensor

SDBT-MS-20NL-ZN-E-10-LE-EX6

Part number: 579072

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-6
Symbol	00991433
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
Explosion protection	Zone 0 (ATEX) Zone 0 (BR) Zone 0 (CN) Zone 0 (IEC-EX) Zone 0 (KR) Zone 0 (UKEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (BR) Zone 20 (CN) Zone 20 (IEC-EX) Zone 20 (KR) Zone 20 (UKEX) Zone 21 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 1G
Explosion ignition protection type for gas	Ex ia IIC T4...T6 Ga
ATEX category dust	II 1D
Explosion ignition protection type for dust	Ex ia IIIC T135°C Da
Explosion protection certification outside the EU	EPL Da (BR) EPL Da (CN) EPL Da (GB) EPL Da (IECEX) EPL Da (KR) EPL Ga (BR) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX) EPL Ga (KR)
Explosion ambient temperature	T4, with fixed cable installation: -40°C ≤ Ta ≤ +85°C T4: -20°C ≤ Ta ≤ +85°C T6, with fixed cable installation: -40°C ≤ Ta ≤ +45°C T6: -20°C ≤ Ta ≤ +45°C

Feature	Value
Max. input voltage U_i	28 V
Max. input current I_i	0.25 A
Max. input power P_i	T4: 350 mW T6: 72 mW
Effective internal inductivity L_i	30 μ H
Effective internal capacitance C_i	79 nF
Certificate issuing authority	21-AV4BO-0130X 21-AV4BO-0131X CSAE 22UKEX1322X DNV 17.0027 X GYJ20.1106X IECEX PTZ 18.0008X PTZ 16 ATEX 0010 X
Special characteristics	Oil resistant
Note on materials	RoHS-compliant Free of halogen
Instructions on use	Support / actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-40 °C ... 85 °C
Repetition accuracy	0.2 mm
Switching output	NAMUR
Switching element function	NAMUR
Switch-on time	<1 ms
Switch-off time	<1 ms
Max. switching frequency	330 Hz
Off-state current	0.4 mA ... 1 mA
Rated operational voltage DC	8.2 V
Operational voltage range DC	7.5 V ... 18 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	10 m
Cable characteristic	Suitable for energy chains Suitable for robot applications
Cable sheath colour	Blue
Material cable sheath	TPE-U(PUR)
Material insulating sheath	PP
Wire ends	Wire end sleeve
Type of mounting	Screw-clamped Insertable in the slot from above
Tightening torque	0.1 Nm ... 0.6 Nm
Max. tightening torque	0.6 Nm
Mounting position	optional
Product weight	104 g
Housing colour	Black
Material housing	PA-reinforced High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-20 °C ... 85 °C

Feature	Value
Degree of protection	IP65 IP68
LABS (PWIS) conformity	VDMA24364-B2-L