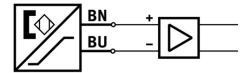


Proximity switch SDBT-MS-20NL-ZN-E-20-LE-EX6

Part number: 8185111

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Design	for T-slot
Based on norm	EN 60947-5-6
Symbol	00991433
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions
Explosion prevention and 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
Type of ignition protection for gas	Ex ia IIC T4...T6 Ga
ATEX category for dust	II 1D
Type of (ignition) protection 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 (IEC-EX) EPL Da (KR) EPL Ga (BR) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX) EPL Ga (KR)
Explosive ambient temperature	T4, with fixed cable routing: $-40\text{ °C} \leq T_a \leq +85\text{ °C}$ T4: $-20\text{ °C} \leq T_a \leq +85\text{ °C}$ T6, with fixed cable routing: $-40\text{ °C} \leq T_a \leq +45\text{ °C}$ T6: $-20\text{ °C} \leq T_a \leq +45\text{ °C}$

Feature	Value
Max. input voltage V_i	28 V
Max. input current I_i	0.25 A
Max. input power P_i	T4: 350 mW T6: 72 mW
Effective internal inductance 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 features	Oil-resistant
Note on materials	RoHS-compliant Halogen-free
Application note	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
On time	<1 ms
Switch-off time	<1 ms
Max. switching frequency	330 Hz
Residual current	0.4 mA ... 1 mA
Rated operating voltage DC	8.2 V
DC operating voltage range	7.5 V ... 18 V
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	2
Connection outlet orientation	Longitudinal
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request
Cable length	20 m
Cable characteristic	Suitable for energy chains Suitable for robot applications
Color cable sheath	Blue
Material of cable sheath	TPE-U(PUR)
Insulating sheath material	PP
Wire ends	Cable end sleeve
Type of mounting	Screwed tightly Can be inserted in slot from above
Tightening torque	0.1 Nm ... 0.6 Nm
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	206 g
Housing colour	Black
Housing material	PA-reinforced High-alloy stainless steel
Switching status indication	LED yellow
Ambient temperature with flexible cable installation	-20 °C ... 85 °C

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