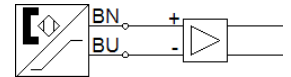
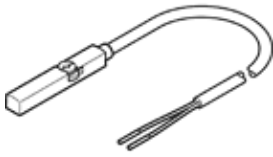


proximity sensor SDBT-MS-20NL-ZN-E-2.5-LE-EX6

Part number: 8185110

FESTO



Data sheet

Feature	Value
Design	for T-slot
Based on the standard	EN 60947-5-6
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
ATEX category Gas	II 1G
Explosion ignition protection type Gas	Ex ia IIC T4...T6 Ga
ATEX category Dust	II 1D
Explosion ignition protection type 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)
Explosion-proof ambient temperature	T4, with fixed cable installation: $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ T4: $-20^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ T6, with fixed cable installation: $-40^{\circ}\text{C} \leq T_a \leq +45^{\circ}\text{C}$ T6: $-20^{\circ}\text{C} \leq T_a \leq +45^{\circ}\text{C}$
Max. input voltage	28 V
Max. input current	0,25 A
Max. input power	T4: 350 mW T6: 72 mW
effective inductivity	30 μH
effective capacity	79 nF
Certificate issuing department	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
Materials note	Conforms to RoHS Halogen-free
Instructions for use	Support / Actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magneto-resistive

Feature	Value
Ambient temperature	-40 ... 85 °C
Repetition accuracy	0.2 mm
Switch output	NAMUR
Switching element function	NAMUR
Switch-on time	< 1 ms
Switch-off time	< 1 ms
Max. switching frequency	330 Hz
Residual current	0.4 ... 1 mA
Nominal operating voltage DC	8.2 V
Operating voltage range DC	7.5 ... 18 V
Residual ripple	10 %
Polarity protected	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
Connector exit direction	axial
Test conditions of cable	Bending strength according to Festo standard Test conditions on request
Cable length	2.5 m
Cable attribute	For robots Suitable for energy chains
Cable sheath colour	blue
Material cable sheath	TPE-U(PUR)
Material insulation	PP
Wire ends	Wire end ferrule
Mounting type	Tightened Insertable in slot from above
Tightening torque	0.1 ... 0.6 Nm
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	28 g
Housing colour	Black
Material housing	PA-reinforced High alloy steel, non-corrosive
Operating status display	Yellow LED
Ambient temperature with flexible cable installation	-20 ... 85 °C
Protection class	IP65 IP68
PWIS conformity	VDMA24364-B2-L