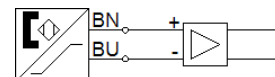
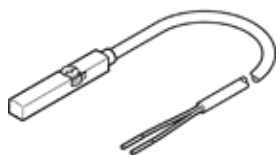


# proximity sensor SDBT-MS-20NL-ZN-E-5-LE-EX6

Part number: 579071

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)
KC mark	KC-EMV
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 (IEC-EX) EPL Ga (BR) EPL Ga (IEC-EX)
Explosion-proof ambient temperature	T4, with fixed cable installation: $-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$ T4: $-20^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$ T6, with fixed cable installation: $-40^{\circ}\text{C} \leq \text{Ta} \leq +45^{\circ}\text{C}$ T6: $-20^{\circ}\text{C} \leq \text{Ta} \leq +45^{\circ}\text{C}$
Max. input voltage	28 V
Max. input current	0.25 A
Max. input power	T4: 350 mW T6: 72 mW
effective inductivity	30 $\mu\text{H}$
effective capacity	79 nF
Certificate issuing department	DNV 17.0027 X IECEx PTZ 18.0008X PTZ 16 ATEX 0010 X
Special characteristics	Oil resistant
Materials note	Free of copper and PTFE Conforms to RoHS Halogen-free
Measured variable	Position
Measuring principle	Magnetoresistive
Ambient temperature	$-40 \dots 85^{\circ}\text{C}$
Repetition accuracy	0.2 mm
Switch output	NAMUR
Switching element function	NAMUR
Switch-on time	$< 1 \text{ ms}$
Switch-off time	$< 1 \text{ ms}$
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

Feature	Value
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	5 m
Cable attribute	For robots Suitable for chain link trunking
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
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	53 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