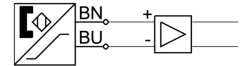
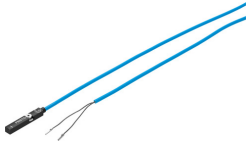


# Proximity sensor SDBT-MS-20NL-ZN-E-5-LE-EX6

Part number: 579071

FESTO



## Data sheet

Feature	Value
Type code	SDBT
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)
KC characters	KC EMC
Explosion prevention and protection	Zone 0 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 0 (BR) Zone 20 (BR) Zone 0 (IEC-EX) Zone 20 (IEC-EX) Zone 0 (IEC-EX) Zone 21 (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 (IEC-EX) EPL Ga (BR) EPL Ga (IEC-EX)
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: $-20\text{ °C} \leq T_a \leq +45\text{ °C}$
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 $\mu\text{H}$
Effective internal capacitance $C_i$	79 nF
Certificate issuing authority	DNV 17.0027 X IECEx PTZ 18.0008X PTZ 16 ATEX 0010 X
Special features	Oil-resistant

Feature	Value
Note on materials	Free of copper and PTFE RoHS-compliant Halogen-free
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	5 m
Cable characteristic	Suitable for robot applications Suitable for energy chains
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
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	53 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
Degree of protection	IP65 IP68