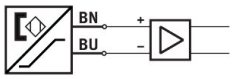
Proximity sensor
SDBT-MS-20NL-ZN-E-5-LE-EX6

Part number: 579071





Data sheet

Feature	Value
Design	For T-slot
Based on norm	EN 60947-5-6
Certification	RCM compliance mark c UL us - Listed (OL) c UL us - Listed (HazLoc)
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 (CA) Zone 0 (CN) Zone 0 (IEC-EX) Zone 0 (KR) Zone 0 (TW) Zone 0 (UKEX) Zone 0 (US) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (BR) Zone 20 (CA) Zone 20 (CN) Zone 20 (IEC-EX) Zone 20 (KR) Zone 20 (TW) Zone 20 (UKEX) Zone 20 (US) Zone 21 (ATEX) Zone 22 (ATEX)
Explosion protection certification outside the EU	EPL Da (BR) EPL Da (CA) EPL Da (CN) EPL Da (GB) EPL Da (IEC-EX) EPL Da (KR) EPL Da (TW) EPL Da (US)

Feature	Value
	EPL Ga (BR) EPL Ga (CA) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX) EPL Ga (KR) EPL Ga (TW) EPL Ga (US)
Max. input voltage Vi	28 V
Max. input current Ii	0.25 A
Max. input power Pi	T4: 350 mW T6: 72 mW
Effective internal inductance Li	30 µH
Effective internal capacitance Ci	79 nF
Special features	Oil-resistant
Note on materials	RoHS compliant Halogen-free
Application note	https://www.festo.com/Drive-Sensor-Overview
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
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request
Cable length	5 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	Wire ferrule
Type of mounting	Screwed on 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	53 g
Housing colour	Black
Housing material	PA-reinforced high-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with flexible cable installation	-20 °C...85 °C
Degree of protection	IP65 IP68

Feature	Value
LABS (PWIS) conformity	VDMA24364-B2-L