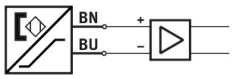
Proximity sensor
SDBT-MS-20NL-ZN-E-5-LE-EX6

Part number: 579071





Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-6
Approval	RCM c UL us - Listed (Oil) c UL us - listed (HazLoc)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (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
Explosion 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 Ui	28 V
Max. input current Ii	0.25 A
Max. input power Pi	T4: 350 mW T6: 72 mW
Effective internal inductivity Li	30 µH
Effective internal capacitance Ci	79 nF
Special characteristics	Oil-resistant
Note on materials	RoHS compliant Free of halogen
Instructions on use	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
Switch-on time	1 ms
Switch-off time	1 ms
Max. switching frequency	330 Hz
Off-state current	0.4 mA...1 mA
Rated operational voltage DC	8.2 V
Operational voltage range DC	7.5 V...18 V
Residual ripple	10%
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	2
Test conditions cable	Bending strength: to Festo standard Test conditions on request
Cable length	5 m
Cable characteristic	Suitable for energy chains Suitable for robot applications
Cable sheath colour	Blue
Material cable sheath	TPE-U(PUR)
Material insulating sheath	PP
Wire ends	Wire ferrule
Type of mounting	Screw-clamped Insertable in the 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
Material housing	Reinforced PA High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-20 °C...85 °C
Degree of protection	IP65 IP68

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