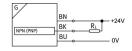
Proximity sensors SDBT-MSX-1L-NU-E-2.5-N-LE

Part number: 8059124







General operating condition

Data sheet

Design	I
Symbol Certification CE marking (see declaration of conformity) CE marking (see declaration of conformity) As per EU EMC directive As per EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing authority UL E232949 Note on materials RoHS-compliant Halogen-free Application note https://www.festo.com/Drive-Sensor-Overview Measured variable Position Measuring principle Magnetic Hall Ambient temperature 40°C85°C Max. travel speed 3 m/s Repetition accuracy 0.1 mm Switching output PNP/NPN switchable Witching output PNP/NPN switchable Witching oluput N/C contact/N/O contact switchable Hysteresis 0.2 mm On time 22 ms Switch-off tine 22 ms Switch-off tine 22 ms Max. switching requency 200 Hz Max. output current in mounting kits 100 mA Max. output current in mounting kits 100 mA Max. switching capacity DC Ass. witching capacity DC in mounting kits 2.8 W Max. switching capacity DC in mounting kits 2.8 W Minimum load current 0.15 mA Residual current 0.15 mA Residual current 0.2 mA Short-icruit protection Ves DC operating voltage DC DC operating voltage DC DC operating voltage range	
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Reverse polarity protection 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	3
Connection outlet orientation	Longitudinal
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request Torsional resistance: > 300 000 cycles, ±270°/0.1 m Energy chain > 5 million cycles, bending radius 28 mm
Cable length	2.5 m
Cable characteristic	Suitable for energy chains/robot applications
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
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	29 g
Housing colour	Black
Housing material	PA-reinforced High-alloy stainless steel
Switching status indication	LED yellow
Status indicator	LED green
Setting options	Auto teach-in Capacitive pushbutton
Ambient temperature with flexible cable installation	-20 °C 85 °C
Degree of protection	IP68
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1