Proximity Sensor
SDBT-MSX-1L-PU-E-2.5-N-LE

Part number: 8059121

★ Core product range

FESTO
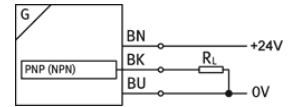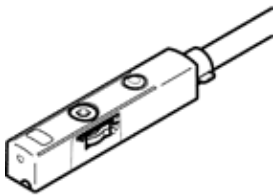
Data sheet

Feature	Value
Design	for T-slot
Based on the standard	EN 60947-5-2
Authorization	RCM Mark
	c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
KC mark	KC-EMV
Certificate issuing department	UL E232949
Materials note	Conforms to RoHS
	Halogen-free
Instructions for use	Link: Drive-Sensor-Overview
Measured variable	Position
Measuring principle	Hall magnetic
Ambient temperature	-40 ... 85 °C
Max. travel speed	3 m/s
Repetition accuracy	0.1 mm
Switch output	PNP/NPN, switchable
Switching element function	N/C or N/O contact, switchable
Hysteresis	0.2 mm
Switch-on time	‹= 2 ms
Switch-off time	‹= 2 ms
Max. switching frequency	200 Hz
Max. output current	100 mA
Max. output current in mounting kits	100 mA
Max. contact rating DC	2.8 W
Max. switching capacity DC in mounting kits	2.8 W
Voltage drop	‹ 1.5 V
Minimum load current	0.15 mA
Residual current	‹ 0.2 mA
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	10 ... 30 V
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Connector exit direction	axial
Test conditions of cable	Bending strength according to Festo standard
	Test conditions on request
	Torsion resistance: › 300,000 cycles, ±270°/0.1 m
	Energy chain: › 5 million cycles, bending radius 28 mm
Cable length	2.5 m
Cable attribute	Suitable for energy chains/robot applications

Feature	Value
Cable sheath color	Grey
Material cable sheath	TPE-U(PUR)
Wire ends	Wire end ferrule
Mounting type	Tightened Insertable in slot from above
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	29 g
Housing color	Black
Material housing	PA-reinforced High alloy steel, non-corrosive
Operating status display	Yellow LED
Status display	Green LED
Setting options	Auto Teach-In Capacitive pushbutton
Ambient temperature with flexible cable installation	-20 ... 85 °C
Protection class	IP68
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4