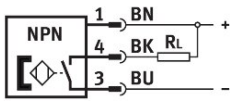
Proximity sensor
SMT-8M-A-NS-24V-E-0,3-M8D

Part number: 574339





Data sheet

Feature	Value
Design	For T-slot
Based on norm	EN 60947-5-2
Certification	RCM compliance mark c UL us - Listed (OL)
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
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	NPN
Switching element function	N.O. contact
On time	1.3 ms
Switch-off time	7.3 ms
Max. switching frequency	130 Hz
Max. output current	100 mA
Max. output current in mounting kits	100 mA
Max. switching capacity DC	2.8 W
Max. switching capacity DC in mounting kits	2.8 W
Voltage drop	1.5 V
Short-circuit protection	Yes
Overload protection	Yes
Rated operating voltage DC	24 V
DC operating voltage range	5 V...30 V
Reverse polarity protection	for all electrical connections

Feature	Value
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock Rotatable Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	Longitudinal
Material of pin contacts	Gold-plated copper alloy
Material of plug housing	TPE-U(PU)
Material of screw-type lock	Brass, nickel-plated
Connector cable test conditions	Test conditions on request Torsion resistance: > 300,000 cycles, ±270°/0.1 m Flexural strength: > 50000 cycles, bending radius 5 mm Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	0.3 m
Cable characteristic	suitable for energy chains/robot applications
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
Insulating sheath material	PP
Type of mounting	Screwed on Can be inserted in slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	8.9 g
Housing colour	Black
Housing material	PA-reinforced high-alloy stainless steel
Switching status indication	Yellow LED
Function reserve indication	Orange LED
Ambient temperature with flexible cable installation	-20 °C...85 °C
Degree of protection	IP65 IP68 IP69K
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Statically installed element, no meaningful evaluation possible according to ISO 14644-1