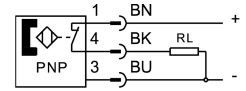


Proximity sensor SMT-8M-A

Part number: 574333

FESTO



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 PNP PNP/NPN switchable Non-contact, 2-wire
Switching element function	N/C contact N/C contact/N/O contact switchable 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	1.9 W...2.8 W
Max. switching capacity DC in mounting kits	1.2 W...2.8 W
Voltage drop	6 V
Short-circuit protection	yes
Overload protection	Available

Feature	Value
Rated operating voltage DC	24 V
DC operating voltage range	5 V...30 V
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable Cable with plug
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101 M8x1 A-coded as per EN 61076-2-104 Open end
Electrical connection 1, number of pins/wires	2 3 4
Electrical connection 1, type of mounting	Screw-type lock
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	0.1 m...30 m
Cable characteristic	Suitable for energy chains/robot applications
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
Type of mounting	Screwed tightly Can be inserted in slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Housing colour	Black
Housing material	Brass, nickel-plated PA-reinforced High-alloy stainless steel
Switching status indication	LED yellow LED yellow (for PNP)/LED white (for NPN)
Function reserve indication	LED orange
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	Metals with more than 1% 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