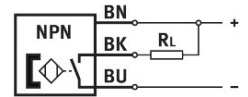


# Proximity sensor

## SMT-10M-NS-24V-E-2,5-Q-OE

Part number: 551378

FESTO



## Data sheet

Feature	Value
Design	For C-slot
Conforms to standard	EN 60947-5-2
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Special characteristics	Oil resistant
Note on materials	RoHS-compliant Free of halogen
Instructions on use	<a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a>
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-40 °C...70 °C
Repetition accuracy	0.2 mm
Switching output	NPN
Switching element function	N/O contact
Switch-on time	1.3 ms
Switch-off time	4.2 ms...7.3 ms
Max. switching frequency	130 Hz
Max. output current	100 mA
Max. output current using mounting kits	50 mA
Max. switching capacity DC	2.8 W
Max. switching capacity DC using mounting kits	1.5 W
Voltage drop	1.5 V
Short circuit current rating	yes
Overload protection	Available
Rated operational voltage DC	24 V
Operational voltage range DC	5 V...30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end

Feature	Value
Electrical connection 1, number of connections/cores	3
Connection outlet orientation	Lateral
Test conditions cable	Bending strength: to Festo standard Test conditions on request Torsional strength: > 300,000 cycles, $\pm 270^\circ/0.1$ m Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	2.5 m
Cable characteristic	Suitable for energy chains/robot applications
Material cable sheath	TPE-U(PUR)
Type of mounting	Screw-clamped Insertable in the slot from above
Max. tightening torque	0.4 Nm
Mounting position	optional
Product weight	16.8 g
Material housing	PA-reinforced High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-20 °C...70 °C
Degree of protection	IP65 IP68
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The 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