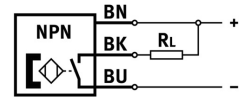
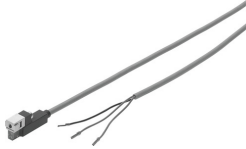


# Proximity sensor SMT-8G-NS-24V-E-2,5Q-OE

Part number: 8065028

**FESTO**



[General operating condition](#)

## Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Symbol	00991149
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	RoHS-compliant
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	-20 °C ... 70 °C
Repetition accuracy	0.2 mm
Switching output	NPN
Switching element function	N/O contact
Switch-on time	≤1 ms
Switch-off time	≤1 ms
Max. switching frequency	150 Hz
Max. output current	100 mA
Max. switching capacity DC	2.8 W
Voltage drop	≤2 V
Inductive protective circuit	Adapted to MZ, MY, ME coils
Off-state current	≤0.15 mA
Short circuit current rating	yes
Overload protection	Available
Rated operational voltage DC	24 V
Operational voltage range DC	10 V ... 30 V
Residual ripple	10 %
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	3
Connection outlet orientation	Lateral

Feature	Value
Test conditions cable	Bending strength: to Festo standard Test conditions on request Torsional resistance: > 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
Cable sheath colour	grey
Material cable sheath	TPE-U(PU)
Wire ends	Wire end sleeve
Type of mounting	Clamped in T-slot Insertable in the slot lengthwise
Max. tightening torque	0.8 Nm
Mounting position	optional
Product weight	30 g
Housing colour	Black
Material housing	Aluminium PA-reinforced High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-5 °C ... 70 °C
Degree of protection	IP65 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