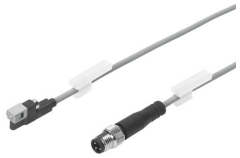
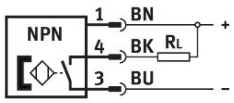
Proximity sensor
SMT-8G-NS-24V-E-0,3Q-M8D

Part number: 8065027





Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Approval	RCM c UL us - Listed (Oil)
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
Certificate issuing authority	UL E232949
Note on materials	RoHS compliant
Instructions on use	https://www.festo.com/Drive-Sensor-Overview
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	Yes
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 with plug

Feature	Value
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock with hexagon A/F 9 mm and longitudinal knurl Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	Lateral
Material electrical contact	Gold-plated brass
Material connector housing	TPE-U(PU)
Material screw-type lock	Brass, nickel-plated
Test conditions cable	Bending strength: to Festo standard Test conditions on request Torsional strength: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	0.3 m
Cable characteristic	Suitable for energy chains/robot applications
Cable sheath colour	Grey
Material cable sheath	TPE-U(PU)
Type of mounting	Clamped in T-slot Inserted into the slot lengthwise
Max. tightening torque	0.8 Nm
Mounting position	Any
Product weight	10 g
Housing colour	Black
Material housing	Aluminium Reinforced PA 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	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1