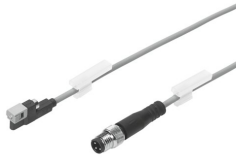
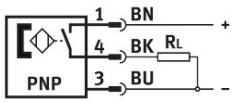
Proximity sensor
SMT-8G-PS-24V-E-0,3Q-M8D

Part number: 547860





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
Note on materials	RoHS compliant
Application note	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	PNP
Switching element function	N.O. contact
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 and ME coils
Residual current	0.01 mA
Short-circuit protection	Yes
Overload protection	Yes
Rated operating voltage DC	24 V
DC operating voltage range	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, 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 with hexagon AF 9 and longitudinal knurl Rotatable Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	Transverse
Material of pin contacts	Gold-plated brass
Material of plug housing	TPE-U(PU)
Material of screw-type lock	Brass, nickel-plated
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request Torsion resistance: > 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
Color cable sheath	Gray
Material of cable sheath	TPE-U(PU)
Type of mounting	Clamped in T slot Can be inserted in slot lengthwise
Max. tightening torque	0.8 Nm
Mounting position	Any
Product weight	10 g
Housing colour	Black
Housing material	Aluminum PA-reinforced high-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with flexible cable installation	-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	Statically installed element, no meaningful evaluation possible according to ISO 14644-1