proximity sensor
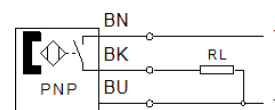# SMT-10G-PS-24V-E-2,5Q-OE

Part number: 547862

FESTO

Magnetic, contactless, for C-slot.

Data sheet

Feature	Value
Design	for round slot
Based on the standard	EN 60947-5-2
Authorisation	RCM Mark
	c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
KC mark	KC-EMV
Certificate issuing department	UL E232949
Materials note	Conforms to RoHS
Instructions for use	Support / Actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magnetoresistive
Ambient temperature	-20 ... 70 °C
Repetition accuracy	0.2 mm
Switch output	PNP
Switching element function	Normally open contact
Switch-on time	<= 1 ms
Switch-off time	<= 1 ms
Max. switching frequency	150 Hz
Max. output current	100 mA
Max. contact rating DC	2.8 W
Voltage drop	<= 2 V
Inductive protective circuit	Adapted to MZ-, MY-, ME coils
Residual current	<= 0.01 mA
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Connector exit direction	Lateral
Test conditions of cable	Bending strength according to 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	2.5 m
Cable attribute	Suitable for energy chains/robot applications
Cable sheath colour	Grey
Material cable sheath	TPE-U(PU)

Feature	Value
Wire ends	Wire end ferrule
Mounting type	Clamped in round slot
	Insertable into slot lengthwise
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	30 g
Housing colour	Black
Material housing	Aluminium
	PA-reinforced
	High alloy steel, non-corrosive
Operating status display	Yellow LED
Ambient temperature with flexible cable installation	-5 … 70 °C
Protection class	IP65
	IP68
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4