Proximity Sensor
SMT-8M-A-ZS-24V-E-5,0-OE

Part number: 8165237

★ Core product range

FESTO
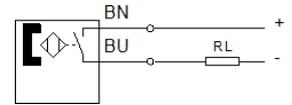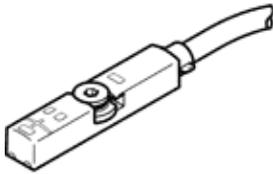
Data sheet

Feature	Value
Design	for T-slot
Based on the standard	EN 60947-5-2
Authorization	RCM Mark
	c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	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
Special characteristics	Oil resistant
Materials note	Conforms to RoHS
	Halogen-free
Instructions for use	Link: Drive-Sensor-Overview
Measured variable	Position
Measuring principle	Magnetoresistive
Ambient temperature	-40 ... 85 °C
Repetition accuracy	0.2 mm
Switch output	Non-contacting 2-wire
Switching element function	Normally open contact
Switch-on time	<= 1 ms
Switch-off time	<= 1 ms
Max. switching frequency	180 Hz
Max. output current	80 mA
Max. output current in mounting kits	80 mA
Max. contact rating DC	1.9 W
Max. switching capacity DC in mounting kits	1.5 W
Voltage drop	‹ 6 V
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	7 ... 30 V
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	2
Connector exit direction	axial
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	5 m
Cable attribute	Suitable for energy chains/robot applications
Cable sheath color	Grey
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened

Feature	Value
	Insertable in slot from above
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	57.1 g
Housing color	Black
Material housing	PA-reinforced
	High alloy steel, non-corrosive
Operating status display	Yellow LED
Operating reserve display	LED orange
Ambient temperature with flexible cable installation	-20 ... 85 °C
Protection class	IP65
	IP68
	IP69K
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4