# proximity sensor
SMT-10M-PS-24V-E-0,3-L-M12
Part number: 8152201

FESTO
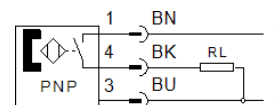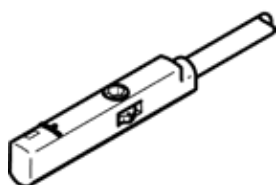
Data sheet

Feature	Value
Design	for round slot
Conforms to standard	EN 60947-5-2
Authorisation	RCM Mark
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	KCs Ex protection
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 ... 70 °C
Repetition accuracy	0.2 mm
Switch output	PNP
Switching element function	Normally open contact
Switch-on time	<= 1.3 ms
Switch-off time	4.2 ... 7.3 ms
Max. switching frequency	130 Hz
Max. output current	100 mA
Max. output current in mounting kits	50 mA
Max. contact rating DC	2.8 W
Max. switching capacity DC in mounting kits	1.5 W
Voltage drop	<= 1.7 V
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	5 ... 30 V
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw lock
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	0.3 m
Cable attribute	Suitable for energy chains/robot applications
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened
	Insertable in slot from above
Max. tightening torque	0.4 Nm

Feature	Value
Assembly position	Any
Product weight	14 g
Material housing	PA-reinforced
	High alloy steel, non-corrosive
Operating status display	Yellow LED
Ambient temperature with flexible cable installation	-20 ... 70 °C
Protection class	IP65
	IP68
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4