

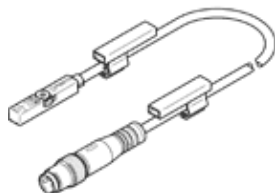
# proximity sensor

## SMT-8M-A-PS-24V-E-0,3-M8D-EX2

Part number: 574342

FESTO

Magnetic, contactless, for T-slot.



## Data sheet

Feature	Value
Design	for T-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 to EU directive explosion protection (ATEX) in accordance with EU RoHS directive
KC mark	KC-EMV
ATEX category Gas	II 3G
Explosion ignition protection type Gas	Ex nA IIC T4 X Gc
ATEX category Dust	II 3D
Explosion ignition protection type Dust	Ex tc IIIC T120°C X Dc
Explosion-proof ambient temperature	-40°C ≤ Ta ≤ +70°C
Special characteristics	Oil resistant
Materials note	Free of copper and PTFE Conforms to RoHS Halogen-free
Measured variable	Position
Measuring principle	Magnetostrictive
Ambient temperature	-40 ... 85 °C
Repetition accuracy	0.2 mm
Switch output	PNP
Switching element function	Normally open contact
Switch-on time	≤ 1.3 ms
Switch-off time	≤ 1.4 ms
Max. switching frequency	180 Hz
Max. output current	100 mA
Max. output current in mounting kits	80 mA
Max. contact rating DC	2.8 W
Max. switching capacity DC in mounting kits	2.2 W
Voltage drop	< 1.5 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	M8x1, A-coded to EN 61076-2-104
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 Chain link trunking: 5 million cycles, bending radius 28 mm

Feature	Value
	Torsion resistance: > 300,000 cycles, ±270°/0.1 m
Cable length	0.3 m
Cable attribute	Energy chain + robot
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened Insertable in slot from above
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	8.9 g
Housing colour	Black
Material housing	Nickel-plated brass 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