

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

Part number: 574342

FESTO



## Data sheet

Feature	Value
Type code	SMT
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection for input 1, connection pattern	00991155
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, connection type	Cable with plug
KC characters	KC EMC
Repetition accuracy	0.2 mm
Electrical connection 1, number of pins/wires	3
Design	for T-slot
Based on norm	EN 60947-5-2
Symbol	00991153
Certification	c UL us - Listed (OL) RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive as per EU explosion protection directive (ATEX)
Explosion prevention and protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Type of ignition protection for gas	Ex nA IIC T4 X Gc
ATEX category for dust	II 3D
Type of (ignition) protection for dust	Ex tc IIIC T120°C X Dc
Explosive ambient temperature	-40°C ≤ Ta ≤ +70°C
Special features	Oil-resistant
Note on materials	Free of copper and PTFE Halogen-free RoHS-compliant
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-40 °C ... 85 °C
Switching output	PNP
Switching element function	N/O contact
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

Feature	Value
Max. switching capacity DC	2.8 W
Max. switching capacity DC in mounting kits	2.2 W
Voltage drop	<1.5 V
Short-circuit protection	yes
Overload protection	Available
Rated operating voltage DC	24 V
DC operating voltage range	5 V ... 30 V
Reverse polarity protection	for all electrical connections
Connection outlet orientation	Longitudinal
Connector cable test conditions	Test conditions on request Flexural strength: as per Festo standard Cable chain: 5 million cycles, bending radius 28 mm Torsional resistance: > 300 000 cycles, ±270°/0.1 m
Cable length	0.3 m
Cable characteristic	Suitability for energy chains/robot applications
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
Type of mounting	Screwed tightly Can be inserted in slot from above
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	8.9 g
Housing colour	Black
Housing material	High-alloy stainless steel Brass, nickel-plated PA-reinforced
Switching status indication	LED yellow
Function reserve indication	LED orange
Ambient temperature with flexible cable installation	-20 °C ... 85 °C
Degree of protection	IP69K IP68 IP65