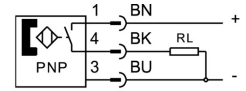


Proximity sensor SMT-8M-A-PS-24V-E-0,3-M8D-EX2

Part number: 574342

FESTO



Data sheet

Feature	Value
Short type code	SMT
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, connection pattern	00991155
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, connection type	Cable with plug
KC mark	KC-EMV
Repetition accuracy	0.2 mm
Electrical connection 1, number of connections/cores	3
Design	For T-slot
Based on standard	EN 60947-5-2
Symbol	00991153
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex nA IIC T4 X Gc
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T120°C X Dc
Explosion ambient temperature	-40°C ≤ Ta ≤ +70°C
Special characteristics	Oil resistant
Note on materials	Copper/PTFE-free RoHS-compliant Free of halogen
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-40 °C ... 85 °C
Switching output	PNP
Switching element function	N/O 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 using mounting kits	80 mA

Feature	Value
Max. switching capacity DC	2.8 W
Max. switching capacity DC using mounting kits	2.2 W
Voltage drop	<1.5 V
Short circuit current rating	yes
Overload protection	Available
Rated operational voltage DC	24 V
Operational voltage range DC	5 V ... 30 V
Reverse polarity protection	For all electrical connections
Connection outlet orientation	In-line
Test conditions cable	Bending strength: to Festo standard Test conditions on request Energy chain: 5 million cycles, bending radius 28 mm Torsional resistance: > 300,000 cycles, ± 270°/0.1 m
Cable length	0.3 m
Cable characteristic	Suitable for energy chains/robot applications
Cable sheath colour	grey
Material cable sheath	TPE-U(PUR)
Type of mounting	Screw-clamped Insertable in the slot from above
Max. tightening torque	0.6 Nm
Mounting position	optional
Product weight	8.9 g
Housing colour	Black
Material housing	Nickel-plated brass PA-reinforced High-alloy stainless steel
Switching status indication	Yellow LED
Function reserve indication	Orange LED
Ambient temperature with moving cable	-20 °C ... 85 °C
Degree of protection	IP65 IP68 IP69K