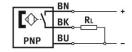
Proximity sensor CRSMT-8M-PS-24V-K-10,0-OE-EX2

FESTO

Part number: 574381





Data sheet

Based on norm EN 60947-5-2 Certification RCM compliance mark CE marking (see declaration of conformity) As per EU PMC directive as per EU RNG sirective (ATEX) Acro 2 (AUEX) Zone 22 (ATEX) Zone 22 (AUEX) ATEX category gas II 3G Type of ignition protection for gas Ex et IIC T1 Gc X ATEX category for dust II 3D Type of ignition) protection for dust Extellic T120°C Dc X Explosion protection certification outside the EU EPL Dc (GB) EP	Feature	Value
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As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU explosion protection of conformity) Explosion prevention and protection Zone 2 (MEX) Zone 2 (UKEX) Zone 22 (MEX)	Based on norm	EN 60947-5-2
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Alkali-proof Acid-proof Note on materials RoHS-compliant Halogen-free Application note Support / actuator-sensor overview "The right sensor for the actuator" Measured variable Position Measuring principle Ambient temperature Ambient temperature -40 °C85 °C Repetition accuracy O.2 mm Switching output PNP Switching element function N/O contact On time 1 ms	Explosive ambient temperature	-40°C <= Ta <= +85°C
Halogen-free Application note Support / actuator-sensor overview "The right sensor for the actuator" Measured variable Position Measuring principle Magneto-resistive -40 °C85 °C Repetition accuracy 0.2 mm Switching output PNP Switching element function N/O contact On time 1 ms	Special features	Alkali-proof
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Measuring principle Ambient temperature -40 °C85 °C Repetition accuracy 0.2 mm Switching output PNP Switching element function N/O contact On time 1 ms	Application note	Support / actuator-sensor overview "The right sensor for the actuator"
Ambient temperature -40 °C85 °C Repetition accuracy 0.2 mm Switching output PNP Switching element function N/O contact On time 1 ms	Measured variable	Position
Repetition accuracy O.2 mm Switching output PNP Switching element function N/O contact On time 1 ms	Measuring principle	Magneto-resistive
Switching output PNP Switching element function N/O contact On time 1 ms	Ambient temperature	-40 °C85 °C
Switching element function N/O contact On time 1 ms	Repetition accuracy	0.2 mm
On time 1 ms	Switching output	PNP
	Switching element function	N/O contact
Switch-off time 1 ms	On time	1 ms
	Switch-off time	1 ms

Feature	Value
Max. switching frequency	180 Hz
Max. output current	100 mA
Max. output current in mounting kits	100 mA
Max. switching capacity DC	2.8 W
Max. switching capacity DC in mounting kits	2.8 W
Voltage drop	1.5 V
Inductive protective circuit	Adapted to MZ, MY and ME coils
Minimum load current	0 mA
Residual current	0.05 mA
Short-circuit protection	yes
Overload protection	Available
Rated operating voltage DC	24 V
DC operating voltage range	5 V30 V
Residual ripple	10 %
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Connection outlet orientation	Longitudinal
Connector cable test conditions	Flexural strength: as per Festo standard Torsion resistance: > 300,000 cycles, ±270°/0.1 m Energy chain > 5 million cycles, bending radius 75 mm
Cable length	10 m
Cable characteristic	Standard/suitable for energy chains
Color cable sheath	Gray
Material of cable sheath	TPE-O
Insulating sheath material	PP
Wire ends	Cable end sleeve
Type of mounting	Screwed tightly Can be inserted in slot from above
Tightening torque	0.1 Nm0.6 Nm
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	93.4 g
Housing colour	Black
Housing material	PA PP
	High-alloy stainless steel
Switching status indication	LED yellow
Function reserve indication	LED orange
Ambient temperature with flexible cable installation	-20 °C85 °C
Degree of protection	IP65 IP68 IP69K
Resistance to interference from magnetic fields	Design insensitive to permanent magnetic fields < Bon
LABS (PWIS) conformity	VDMA24364-B2-L
For use in the food industry	See supplementary material information