

Proximity sensor CRSMT-8M-PS-24V-K-0,3-M12-EX2

Part number: 574382

FESTO



[General operating condition](#)

Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Symbol	00991153
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (ATEX) Zone 22 (UKEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex ec IIC T4 Gc X
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T120°C Dc X
Explosion protection certification outside the EU	EPL Dc (GB) EPL Gc (GB)
Explosion ambient temperature	-40°C ≤ Ta ≤ +85°C
Special characteristics	Resistant to cooling lubricants Alkali resistant Acid resistant
Note on materials	RoHS-compliant Free of halogen
Instructions on use	Support / actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-40 °C ... 85 °C
Repetition accuracy	0.2 mm
Switching output	PNP
Switching element function	N/O contact
Switch-on time	≤1 ms
Switch-off time	≤1 ms
Max. switching frequency	180 Hz
Max. output current	100 mA
Max. output current using mounting kits	100 mA
Max. switching capacity DC	2.8 W
Max. switching capacity DC using mounting kits	2.8 W

Feature	Value
Voltage drop	<1.5 V
Inductive protective circuit	Adapted to MZ, MY, ME coils
Min. load current	0 mA
Off-state current	<0.05 mA
Short circuit current rating	yes
Overload protection	Yes
Rated operational voltage DC	24 V
Operational voltage range DC	5 V ... 30 V
Residual ripple	10 %
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, connection pattern	00995573
Connection outlet orientation	In-line
Material electrical contact	Brass, nickel-plated and gold-plated
Material connector housing	PP
Material screw-type lock	Nickel-plated brass
Test conditions cable	Bending strength: to Festo standard Torsional strength: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 75 mm
Cable length	0.3 m
Cable characteristic	Standard/suitable for energy chains
Cable sheath colour	Grey
Material cable sheath	TPE-O
Material insulating sheath	PP
Type of mounting	Screw-clamped Insertable in the slot from above
Tightening torque	0.1 Nm ... 0.6 Nm
Max. tightening torque	0.6 Nm
Mounting position	optional
Product weight	9.1 g
Housing colour	Black
Material housing	PP 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
Immunity to magnetic fields	Design insensitive to permanent magnetic fields < Bon
LABS (PWIS) conformity	VDMA24364-B2-L
Suitable for use with food	See supplementary material information