

Proximity Sensor

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

Part number: 574381

FESTO



Data sheet

Feature	Value
Design	for T-slot
Based on the standard	EN 60947-5-2
Authorization	RCM Mark
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU-Ex protection guideline (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
ATEX category Gas	II 3G
Explosion ignition protection type Gas	Ex ec IIC T4 Gc X
ATEX category Dust	II 3D
Explosion ignition protection type Dust	Ex tc IIIC T120°C Dc X
Explosion protection certification outside the EU	EPL Dc (GB) EPL Gc (GB)
Explosion-proof ambient temperature	-40°C ≤ Ta ≤ +85°C
Special characteristics	Resistant to cooling lubricants Alkali resistant Acid resistant
Materials note	Conforms to RoHS Halogen-free
Instructions for use	Support / Actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magnetoresistive
Ambient temperature	-40 ... 85 °C
Repetition accuracy	0.2 mm
Switch output	PNP
Switching element function	Normally open contact
Switch-on time	≤ 1 ms
Switch-off time	≤ 1 ms
Max. switching frequency	180 Hz
Max. output current	100 mA
Max. output current in mounting kits	100 mA
Max. contact rating 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-, ME coils
Minimum load current	0 mA
Residual current	< 0.05 mA
Short circuit strength	Yes
Overload withstand capability	Available
Nominal operating voltage DC	24 V
Operating voltage range DC	5 ... 30 V
Residual ripple	10 %
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable

Feature	Value
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Connector exit direction	axial
Test conditions of cable	Bending strength according to 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 attribute	Standard/suitable for energy chains
Cable sheath color	Grey
Material cable sheath	TPE-O
Material insulation	PP
Wire ends	Wire end ferrule
Mounting type	Tightened Insertable in slot from above
Tightening torque	0.1 ... 0.6 Nm
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	93.4 g
Housing color	Black
Material housing	PA PP 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
Interference immunity to magnetic fields	Design insensitive to permanent magnetic fields < Bon
PWIS conformity	VDMA24364-B2-L
Food-safe	See Supplementary material information