proximity sensor
CRSMT-8M-PS-24V-K-0,3-M8D

Part number: 574383

FESTO
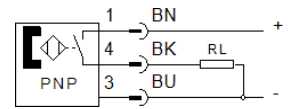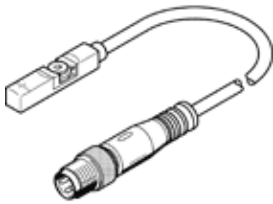
Data sheet

Feature	Value
Design	for T-slot
Based on the standard	EN 60947-5-2
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC
	to EU directive explosion protection (ATEX)
KC mark	KC-EMV
ATEX category Gas	II 3G
Explosion ignition protection type Gas	Ex nA IIC T4 X Gc
ATEX category Dust	II 3D
Explosion ignition protection type Dust	Ex tc IIIC T120°C X Dc
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
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. contact rating DC	2.8 W
Voltage drop	< 1.5 V
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
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M8x1, A-coded to EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw lock
Connector exit direction	axial
Material electrical contact	Brass
	Nickel and gold plated
Material connector housing	PP
Test conditions of cable	Bending strength according to Festo standard
	Chain link trunking: 5 million cycles, bending radius 75 mm
	Torsion resistance: > 300,000 cycles, ±270°/0.1 m

Feature	Value
Cable length	0.3 m
Cable attribute	Standard + chain link trunking
Cable sheath colour	Grey
Material cable sheath	TPE-O
Material insulation	PP
Mounting type	Tightened Insertable in slot from above
Max. tightening torque	0.6 Nm
Assembly position	Any
Product weight	16.1 g
Housing colour	Black
Material housing	PA PP High alloy steel, non-corrosive
Material of union nut	Nickel-plated brass
Operating status display	Yellow LED
Operating reserve display	LED orange
Ambient temperature with flexible cable installation	-20 … 85 °C
Protection class	IP65 IP68 IP69K
Food-safe	See Supplementary material information