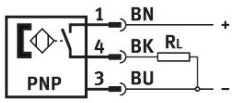
Proximity sensor
CRSMT-8M-PS-24V-K-0,3-M12-EX2

Part number: 574382





Data sheet

Feature	Value
Design	For T-slot
Based on norm	EN 60947-5-2
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions
Explosion prevention and protection	Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (ATEX) Zone 22 (UKEX)
ATEX category gas	II 3G
Type of ignition protection for gas	Ex ec IIC T4 Gc X
ATEX category for dust	II 3D
Type of (ignition) protection for dust	Ex tc IIIC T120°C Dc X
Explosion protection certification outside the EU	EPL Dc (GB) EPL Gc (GB)
Explosive ambient temperature	-40°C <= Ta <= +85°C
Special features	Cooling lubricant-proof 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	Magneto-resistive
Ambient temperature	-40 °C...85 °C
Repetition accuracy	0.2 mm
Switching output	PNP
Switching element function	N.O. contact
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	Yes
Rated operating voltage DC	24 V
DC operating voltage range	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, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock Rotatable Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	Longitudinal
Material of pin contacts	Brass, nickel-plated and gold-plated
Material of plug housing	PP
Material of screw-type lock	Brass, nickel-plated
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	0.3 m
Cable characteristic	Standard/suitable for energy chains
Color cable sheath	Gray
Material of cable sheath	TPE-O
Insulating sheath material	PP
Type of mounting	Screwed on Can be inserted in slot from above
Tightening torque	0.1 Nm...0.6 Nm
Max. tightening torque	0.6 Nm
Mounting position	Any
Product weight	9.1 g
Housing colour	Black
Housing material	PA PP high-alloy stainless steel
Switching status indication	Yellow LED
Function reserve indication	Orange LED
Ambient temperature with flexible cable installation	-20 °C...85 °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