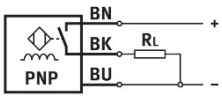
Proximity sensor
SIES-8M-PS-24V-K-7,5-OE

Part number: 551386





General operating condition

Data sheet

Feature	Value
Design	for T-slot
Conforms to standard	EN 60947-5-2
Symbol	00991702
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
KC characters	KC EMC
Note on materials	RoHS-compliant
Measured variable	Position
Measuring principle	Inductive
Rated operating distance	1.5 mm
Reduction factors	Aluminum = 0.62 Stainless steel V2A = 0.95 Copper = 0.6 Brass = 0.72 Steel St 37 = 1.0
Ambient temperature	-25 °C ... 70 °C
Repetition accuracy under constant conditions	<= 0.05 mm, approach from the side
Switching output	PNP
Switching element function	N/O contact
On time	≤1.0E-4 ms
Max. switching frequency	4500 Hz
Max. output current	150 mA
Max. switching capacity DC	4.5 W
Voltage drop	≤2 V
Inductive protective circuit	Installed
Minimum load current	0 mA
Residual current	≤0.01 mA
Short-circuit protection	Pulsed
Overload protection	Available
DC operating voltage range	10 V ... 30 V
Residual ripple	10 %
Idle current	≤10 mA
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end

Feature	Value
Electrical connection 1, number of pins/wires	3
Connection outlet orientation	Longitudinal
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request Energy chain › 5 million cycles, bending radius 75 mm
Cable length	7.5 m
Cable characteristic	Standard/suitable for energy chains
Color cable sheath	Gray
Material of cable sheath	TPE-U(PU)
Insulating sheath material	PP
Size	Slot 8
Type of mounting	Flush with T-slot Screwed tightly Can be inserted in slot from above
Tightening torque	0.6 Nm
Mounting position	Any
Mounting type	Flush
Housing colour	Black
Housing material	PA PUR High-alloy stainless steel
Switching status indication	LED yellow
Ambient temperature with flexible cable installation	-5 °C ... 70 °C
Degree of protection	IP65 IP67
Insulation voltage	50 V
Surge resistance	0.8 kV
Corrosion resistance class (CRC)	3 - High corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1
Contamination level	3
Selection of additional sensor information	for T-slot
Electrical output	PNP
Selection of sensor version	Special design

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