

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

Part number: 551396

FESTO



Data sheet

Feature	Value
Design	for T-slot
Conforms to standard	EN 60947-5-2
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	NPN
Switching element function	N/O contact
On time	0.1 µs
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	10 µA
Short-circuit protection	Pulsed
Overload protection	Available
DC operating voltage range	10 V...30 V
Residual ripple	10 %
Idle current	10 mA

Feature	Value
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
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	Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, 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	NPN
Selection of sensor version	Special design