

Proximity sensor SIES-8M-NS-24V-K-10-M8D

Part number: 551400

FESTO



[General operating condition](#)

Data sheet

Feature	Value
Design	for T-slot
Conforms to standard	EN 60947-5-2
Symbol	00991703
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
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
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	≤ 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 with plug

Feature	Value
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	rotatable
Electrical connection 1, type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection for input 1, connection pattern	00991155
Connection outlet orientation	Longitudinal
Material of pin contacts	Brass, gold-plated
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	10 m
Cable characteristic	Standard/suitable for energy chains
Color cable sheath	Gray
Material of cable sheath	TPE-U(PU)
Insulating sheath material	PVC
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	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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	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