

# Proximity sensor SIES-8M-PS-24V-K-5,0-M8D

Part number: 551389

FESTO



[General operating condition](#)

## Data sheet

Feature	Value
Design	For T-slot
Conforms to standard	EN 60947-5-2
Symbol	00991701
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC (UK-E) To UK RoHS instructions (UK-R)
KC mark	KC-EMV
Note on materials	RoHS-compliant
Measured variable	Position
Measuring principle	Inductive
Rated operating distance	1.5 mm
Reduction factors	Aluminium = 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 with constant conditions	≤ 0.05 mm, approach from the side
Switching output	PNP
Switching element function	N/O contact
Switch-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	Integrated
Min. load current	0 mA
Off-state current	≤ 0.01 mA
Short circuit current rating	Pulsed
Overload protection	Available
Operational voltage range DC	10 V ... 30 V
Residual ripple	10 %
No-load supply current	≤ 10 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug

Feature	Value
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, connection pattern	00991155
Connection outlet orientation	In-line
Material electrical contact	Gold-plated brass
Test conditions cable	Bending strength: to Festo standard Test conditions on request Energy chain: > 5 million cycles, bending radius 75 mm
Cable length	5 m
Cable characteristic	Standard/suitable for energy chains
Cable sheath colour	Grey
Material cable sheath	TPE-U(PU)
Material insulating sheath	PP
Size	Slot 8
Type of mounting	Flush with T-slot Screw-clamped Insertable in the slot from above
Tightening torque	0.6 Nm
Mounting position	optional
Mounting type	Flush
Housing colour	Black
Material housing	PUR High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-5 °C ... 70 °C
Degree of protection	IP65 IP67
Insulation voltage	50 V
Immunity to surge	0.8 kV
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom class	Class 4 according to ISO 14644-1
Pollution degree	3
Additional information for sensor selection	For T-slot
Electrical output	PNP
Selection of sensor design	Special design