

Proximity sensors SIES-8M, inductive for T-slot

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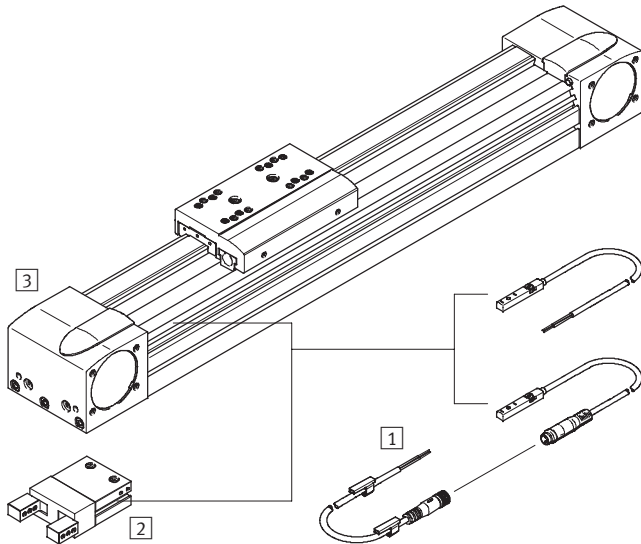


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Peripherals overview and type codes

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Peripherals overview



Mounting attachments and accessories		→ Page/Internet
1	Connecting cable NEBU-M8...3	46
2	Gripper with T-slot e.g. parallel gripper HGP	gripper
3	Electric axis EGC	egc

Type codes

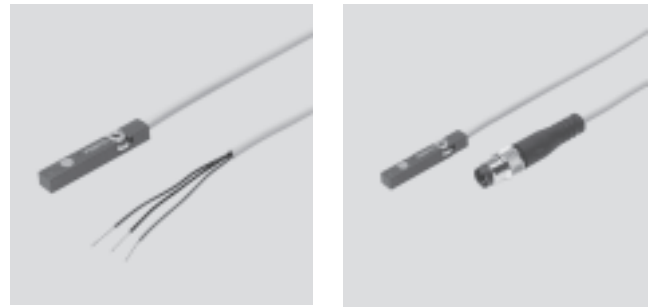
		SIE	S	-	8M	-	P	S	-	24V	-	K	-	2,5	-	M8D
Type																
SIE	Proximity sensor, inductive															
Design																
S	Special design															
Design																
8M	For T-slot															
Switching output																
P	PNP															
N	NPN															
Switching element function																
S	N/O contact															
O	N/C contact															
Rated operating voltage																
24V	24 VDC															
Cable attributes																
K	Standard + energy chain															
Cable length																
0,3	0.3 m															
2,5	2.5 m															
5,0	5.0 m															
7,5	7.5 m															
10	10 m															
Electrical connection																
OE	Cable, 3-wire, open end															
M8D	Cable with plug M8x1, 3-pin, knurled ring															

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Technical data

- Inductive proximity sensor for T-slot, insertable from above
- Suitable for position sensing for electric axes EGC and grippers with T-slot
- 2 LEDs for better visibility, regardless of the side from which the axis approaches the sensor



General technical data	
Type of mounting	Screw-clamped in slot, insertable from above, flush with T-slot
Connection direction	In-line
Rated operating distance S_n [mm]	1.5
Repetition accuracy under constant conditions [mm]	≤ 0.05 lateral connection ≤ 0.02 axial connection
Max. switching frequency [Hz]	5,000
Switching status display	Yellow LED
Conforms to	EN 60947-5-2
Cable attributes	Standard + energy chain
Cable test conditions	Energy chain: 5 million cycles, bending radius 75 mm Resistance to bending: to Festo standard; test conditions on request
Degree of contamination	3

Electrical data	
Switching output	PNP NPN
Switching element function	N/C contact N/O contact
Electrical connection	Cable, 3-wire Cable with plug, M8x1, knurled ring, 3-pin
Operating voltage range DC [V]	10 ... 30
Insulation voltage [V]	50
Max. output current [mA]	150
Surge capacity [kV]	0.8
Idle current [mA]	≤ 10
Protection against short circuit	Pulsed
Protection against polarity reversal	For all electrical connections
Protection class	IP65 IP67

Operating and environmental conditions	
Ambient temperature [°C]	-25 ... +70
Ambient temperature with flexible cable installation [°C]	-5 ... +70
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾
Certification	C-Tick cULus listed (OL)

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

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Technical data

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Materials		
	SIES-8M-...-OE	SIES-8M-...-M8D
Housing	–	Brass, nickel-plated
	Polyamide	
	Polyurethane	
	High-alloy stainless steel	
Cable sheath	Thermoplastic polyurethane elastomer	
Note on materials	Free of copper and PTFE	
	RoHS-compliant	

Pin allocation			
Cable		Plug	
PNP N/O contact		PNP N/O contact	
NPN N/O contact		NPN N/O contact	
PNP N/C contact		PNP N/C contact	
NPN N/C contact		NPN N/C contact	

Core colours			
BN = brown	BK = black	BU = blue	

Dimensions	Download CAD Data → www.festo.com/us/cad
SIES-8M-...-OE	
	1 Cable 3 Clamping component, max. tightening torque 0.6 Nm 4 Switching status display

SIES-8M-...-M8D	
	1 Cable 2 Plug 3 Clamping component, max. tightening torque 0.3 Nm 4 Switching status display

	L1
SIES-8M-...-0,3-M8D	300 ⁺⁵⁰
SIES-8M-...-2,5-M8D	2,500 ⁺⁵⁰
SIES-8M-...-5,0-M8D	5,000 ⁺⁵⁰
SIES-8M-...-7,5-M8D	7,500 ⁺⁷⁵
SIES-8M-...-10-M8D	10,000 ⁺¹⁰⁰

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Technical data

Ordering data							
Size	S _n ¹⁾ [mm]	Mounting position	Switching output	Switching element function	Cable length [m]	Part No.	Type
Cable							
	1.5	Flush	PNP	N/O contact	7.5	551386	SIES-8M-PS-24V-K-7,5-OE
				N/C contact	7.5	551391	SIES-8M-PO-24V-K-7,5-OE
			NPN	N/O contact	7.5	551396	SIES-8M-NS-24V-K-7,5-OE
				N/C contact	7.5	551401	SIES-8M-NO-24V-K-7,5-OE
Cable with plug							
	1,5	Flush	PNP	N/O contact	0.3	551387	SIES-8M-PS-24V-K-0,3-M8D
					2.5	551388	SIES-8M-PS-24V-K-2,5-M8D
					5.0	551389	SIES-8M-PS-24V-K-5,0-M8D
					10	551390	SIES-8M-PS-24V-K-10-M8D
				N/C contact	0.3	551392	SIES-8M-PO-24V-K-0,3-M8D
					2.5	551393	SIES-8M-PO-24V-K-2,5-M8D
					5.0	551394	SIES-8M-PO-24V-K-5,0-M8D
					10	551395	SIES-8M-PO-24V-K-10-M8D
			NPN	N/O contact	0.3	551397	SIES-8M-NS-24V-K-0,3-M8D
					2.5	551398	SIES-8M-NS-24V-K-2,5-M8D
					5.0	551399	SIES-8M-NS-24V-K-5,0-M8D
					10	551400	SIES-8M-NS-24V-K-10-M8D
				N/C contact	0.3	551402	SIES-8M-NO-24V-K-0,3-M8D
					2.5	551403	SIES-8M-NO-24V-K-2,5-M8D
					5.0	551404	SIES-8M-NO-24V-K-5,0-M8D
					10	551405	SIES-8M-NO-24V-K-10-M8D

1) S_n Rated operating distance [mm]

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Accessories

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Sensor bracket SIEZ-8M

For mounting proximity sensors

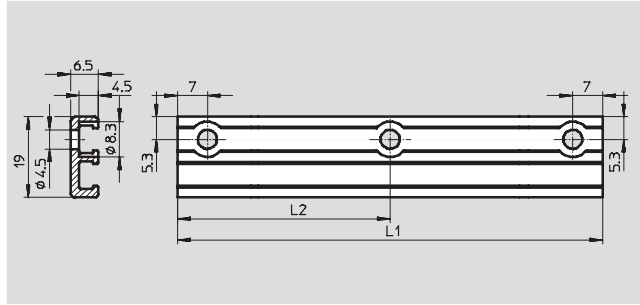
SIES-8M on any housing

Material:

Wrought aluminium alloy, steel,
thermoplastic polyurethane elastomer

Note on material:

RoHS-compliant



Dimensions and ordering data				
	L1	L2	Part No.	Type
Sensor bracket	200	–	551406	SIEZ-8M-200
	400	100	551407	SIEZ-8M-400

Ordering data – Slot cover for T-slot				
	Assembly	Length	Part No.	Type
	Insertable from above	2x 0.5 m	563360	ABP-5-S1

Ordering data – Connecting cables M8x1				Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
			5	541334	NEBU-M8G3-K-5-LE3
			10	541332	NEBU-M8G3-K-10-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3
			10	541335	NEBU-M8W3-K-10-LE3

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