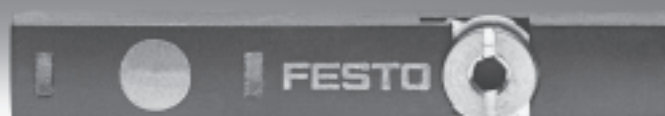


Proximity sensors SIES-8M, inductive for T-slot

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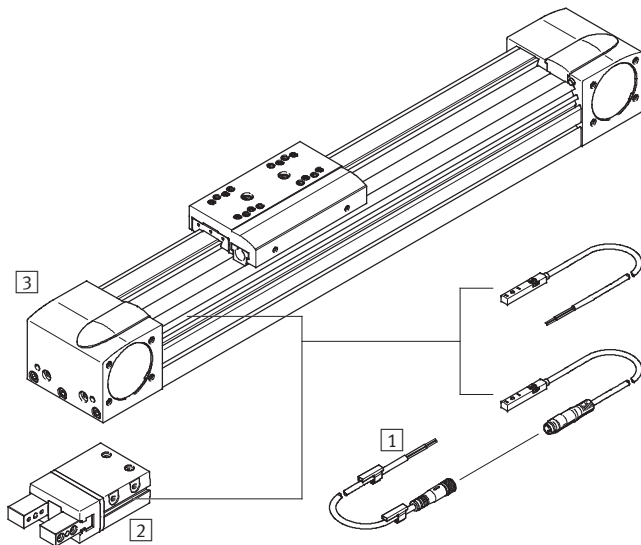


Proximity sensors SIES-8M, inductive for T-slot

Peripherals overview and type codes

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Peripherals overview



Mounting attachments and accessories	→ Page/Internet
1 Connecting cable NEBU-M8...3	6
2 Gripper with T-slot e.g. parallel gripper DHPS	gripper
3 Electric axis EGC	egc

Type codes

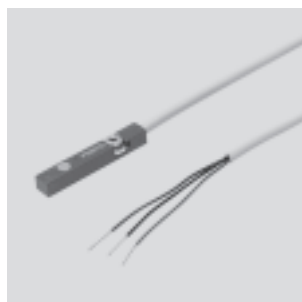
Type	SIE	S	8M	P	S	24V	K	2,5	M8D
SIE	Proximity sensor, inductive								
S	Special design								
8M	For T-slot								
P	PNP								
N	NPN								
S	N/O contact								
O	N/C contact								
24V	24 VDC								
K	Standard + energy chain								
0,3	0.3 m								
2,5	2.5 m								
5,0	5.0 m								
7,5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

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

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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.

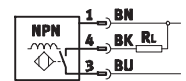
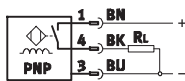
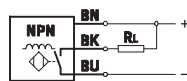
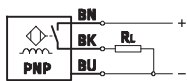
Proximity sensors SIES-8M, inductive for T-slot

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Technical data

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	NPN N/O contact	PNP N/O contact	NPN N/O contact



PNP N/C contact	NPN N/C contact	PNP N/C contact	NPN N/C contact

Core colours			
BN = brown	BK = black	BU = blue	

Dimensions	Download CAD data → www.festo.com
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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

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

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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]

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

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Accessories

Sensor bracket SIEZ-8M

For mounting proximity sensors

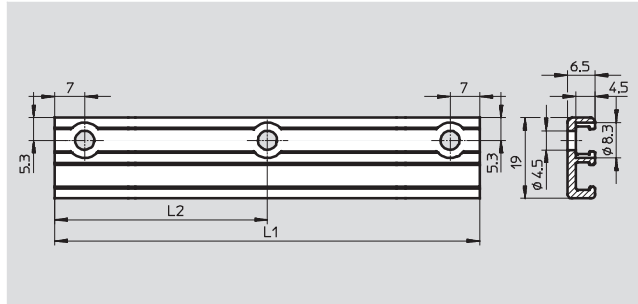
SIES-8M on any housing

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