

SME-8M/SMT-8M Proximity Sensors For T-slots

Ordering Guide

FESTO



Secured Reliability

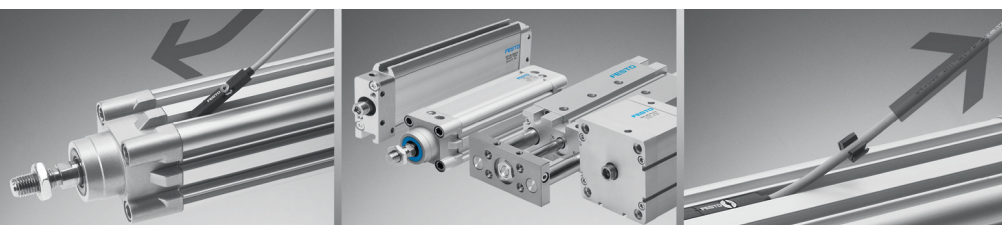
The new Festo SME-8M/SMT-8M modular proximity sensor system, compatible with a wide range of actuators, offers new dimensions in reliability and economy.

Convenience

- Install quickly, insert directly from above and fasten, using common tools.
- Fully compatible with all Festo actuators with T-slots (type 8 slots). Also fits round cylinders and tie-rod cylinders when used with corresponding mounting kits.
- Switch point marked clearly on the housing.
- Flexibility in choosing cable lengths, cable quality, and connectors. Most arrangements are possible with a configurable part number.

Total Reliability

- A sturdy central attachment point ensures that the sensor is secured in the slot. Vibration, shock and tensile forces applied to the cable will neither cause the sensor to become loose nor lead to unreliable switching; resistance to tensile force up to 60 N.
- Even critical applications are kept reliably under control over a long period of time: all SME-8M reed switches are equipped with internal protective circuits to increase their service life.
- Graded cable qualities, such as standard, cable carrier approved, and suitable for robot applications, provide maximum dependability and process reliability.



Insert and fasten quickly

It always fits

Always a firm grip

SME-8M Contact Type Proximity Sensors For T-Slots

Ordering Data

Mandatory Data						
Module No.	Function	Switch Output	Nominal Operating Voltage	Cable Attribute	Cable Length	Connection Technology
543892	SME-8M	DS ZS	24V	K E R	0.2 ... 10	OE M8D M8 M12
Order Example						
543892	SME-8M	- ZS	- 24V	- K	- 0.8	- OE

Ordering Table – Configurable				
Size	8			Code
Enter Code				
M Part No.	543892			
Function	Proximity sensor for T-slot, contact type			SME-8M
				–
Switch output	3-wire N/O contact			DS
	2-wire N/O contact			ZS
				–
Nominal operating voltage [VDC]	24			24V
				–
Cable attribute	Standard			K
	Suitable for cable carriers			E
	Suitable for robots			R
				–
Cable length [m]	0.2 ... 10 (0.2 ... 2.5 m in 0.1 m steps, 2.5 ... 10 m in 0.5 m steps)			...
				–
Connection technology	Open end			OE
	M8, rotatable thread			M8D
	M8, snap-on flange			M8
	M12, rotatable thread			M12

Transfer Order Code

543892	SME-8M	-		-	24V	-		-		-	
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Ordering Data – Pre-configured						
	Electrical Connection			Cable Length	Part No.	Type
	Cable	Cable with Plug				
		M5x0.5	M8x1			
				[m]		
	N/O contact					
	3-wire	–	–	2.5	543862	SME-8M-DS-24V-K-2,5-OE
				5.0	543863	SME-8M-DS-24V-K-5.0-OE
				7.5	543876	SME-8M-DS-24V-K-7.5-OE
	–	3-pin	–	0.3	543864	SME-8M-DS-24V-K-0,3-M5D
	–	–	3-pin	0.3	543861	SME-8M-DS-24V-K-0,3-M8D
	2-wire	–	–	2.5	543872	SME-8M-ZS-24V-K-2,5-OE

SMT-8M Contactless Proximity Sensors For T-Slots

Ordering Data

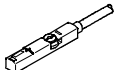
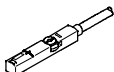
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M Mandatory Data						
Module No.	Function	Switch Output	Nominal Operating Voltage	Cable Attribute	Cable Length	Connection Technology
543893	SMT-8M	PS NS PO	24V	K E R	0.2 ... 30	OE M8D M8 M12
Ordering Example						
543893	SMT-8M	NS	24V	E	3	M8D

Ordering Table – Configurable				
Size	8	Code		Enter Code
M Part No.	543893			
Function	Proximity sensor for T-slot, contactless	SMT-8M		SMT-8M
		–		–
Switch output	3-wire PNP N/O contact	PS		
	3-wire NPN N/O contact	NS		
	3-wire PNP N/C contact	PO		
		–		–
Nominal operating voltage [VDC]	24	24V		24V
		–		–
Cable attribute	Standard	K		
	Suitable for cable carriers	E		
	Suitable for robots	R		
		–		–
Cable length [m]	0.2 ... 30 (0.2 ... 2.5 m in 0.1 m steps, 2.5 ... 15 m in 0.5 m steps, 15 ... 30 m in 1 m steps)	...		
		–		–
Connection technology	Open end	OE		
	M8, rotatable thread	M8D		
	M8, snap-on flange	M8		
	M12, rotatable thread	M12		

Transfer Order Code

543893	SMT-8M	–		–	24V	–		–	
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Ordering Data – Pre-configured								
	Switch Output	Electrical Connection				Cable Length	Part No.	Type
		Cable	Cable with Plug					
			M5x0.5	M8x1	M12x1			
						[m]		
	N/O Contact							
	PNP	3-wire	–	–	–	2.5	543867	SMT-8M-PS-24V-K-2,5-OE
						5.0	543868	SMT-8M-PS-24V-K-5.0-OE
		–	3-pin	–	–	0.3	543865	SMT-8M-PS-24V-K-0,3-M5D
		–	–	3-pin	–		543866	SMT-8M-PS-24V-K-0,3-M8D
		–	–	–	3-pin		543869	SMT-8M-PS-24V-K-0,3-M12
		For cable carriers	–	3-pin	–	0.2	550842	SMT-8M-PS-24V-E-0,2-M8D
	For robot applications	–	3-pin	–	0.3	551016	SMT-8M-PS-24V-R-0,3-M8D	
	NPN	3-wire	–	–	–	2.5	543870	SMT-8M-NS-24V-K-2,5-OE
		–	–	3-pin	–	0.3	543871	SMT-8M-NS-24V-K-0,3-M8D
	N/C Contact							
	PNP	3-wire	–	–	–	7.5	543873	SMT-8M-PO-24V-K-7,5-OE

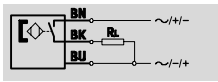
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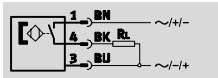
Technical Data

Function

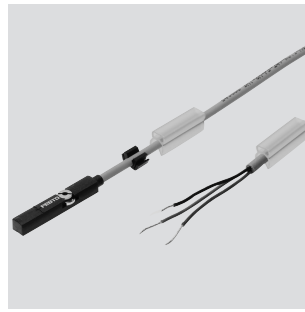
N/O contact, 3-wire, with cable



N/O contact, 3-wire, with plug



- SME-8M: Magnetic reed measuring principle
- SMT-8M: Magnetoresistive measuring principle
- Insert in the slot from above, remains flush with cylinder profile
- Cable clip and labels included



Construction	
Design	For size 8 T-slot
Type of mounting	Secured with screw, insert in the T-slot from above With SMBR-8 mounting kit
Connection direction	Inline
Cable attribute	Standard (code K) Suitable for cable carriers (code E) Suitable for robots (code R)
Test conditions for standard cables	Cable carriers: 5 million cycles, bending radius 75 mm Resistance to bending: To Festo standard; test conditions on request
Test conditions for suitability with cable carriers	Cable carriers: 5 million cycles, bending radius 28 mm Resistance to bending: To Festo standard; test conditions on request
Test conditions for suitability with robots	Cable carriers: 5 million cycles, bending radius 28 mm Torsional strength: > 300,000 cycles, $\pm 270^\circ/0.1$ m Resistance to bending: To Festo standard; test conditions on request
Repeatability of switching point [mm]	± 0.1
Switching status display	Yellow LED
Cable sheath material	PUR
Electrical protection class	IP65/IP68

Technical Data – N/O Contact, 3-wire			
		SME-8M	SMT-8M
Switch output		Contacting, bipolar	PNP or NPN
Operating voltage range DC	[VDC]	5 ... 30	10 ... 30
Operating voltage range AC	[VAC]	5 ... 30	–
Max. output current	[mA]	500	100
Max. output current with mounting kit	[mA]	80	100
Max. switching capacity DC	[W]	10	3
Max. switching capacity AC	[VA]	10	–
Max. switching capacity DC with mounting kit	[W]	2.4	3
Max. switching capacity AC with mounting kit	[VA]	2.4	–

Certification	
	c UL us - Listed (OL) C tick
	In accordance with EU EMC directive 89/336/EEC (EMC)

Festo Corporation

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