



★/☆

Festo core product range Covers 80% of your automation tasks

Worldwide:Always in stockSuperb:Festo quality at an attractive priceEasy:Simplified procurement and warehousing

★ Generally ready for dispatch from the factory within 24 hours In stock at 13 Service Centres worldwide More than 2200 products

☆ Generally ready for dispatch from the factory within 5 days Assembled for you at 4 Service Centres worldwide Up to 6 × 10¹² variants per product family Just look for the star!

Product range overview

Design	Type of mounting	Measuring principle	Туре	Operating voltage range	Switching output	Switching element function	→ Page/ Internet
or C-slot	Standard	1					
	Inserted in the slot from	Magneto-resistive	SMT-10M	5 30 V DC	PNP	N/O contact	-
	above, flush with the				NPN		
	cylinder profile				Non-contacting, 2-wire	1	
		Magnetic reed	SME-10M	5 30 V AC/DC	Contacting, bipolar	N/O contact	6
	Inserted in the slot	Magneto-resistive	SMT-10G	10 30 V DC	PNP, NPN	N/O contact	-
	lengthwise	Magnetic reed	SME-10	12 27 V AC/DC	Contacting	N/O contact	-
r T-slot	Standard						
	Inserted in the slot from	Magneto-resistive	SMT-8M	10 30 V DC	PNP	N/O contact	T-slot
	above, flush with the					N/C contact	-
	cylinder profile				NPN	N/O contact	-
		Magnetic reed	SME-8M	5 30 V AC/DC	Contacting, bipolar	N/O contact	-
				,	3, 1	N/C contact	1
	Inserted in the slot	Magneto-resistive	SMT-8	10 30 V DC	PNP	N/O contact	1
	lengthwise, flush with the				NDN	_	
	cylinder profile				NPN		
	Inserted in the slot	Magnetic reed	SME-8	12 30 V AC/DC	Contacting, bipolar	N/O contact	1
	lengthwise, flush with the					N/C contact	1
	cylinder profile			3 230 V AC/DC		N/O contact	1
				5 250 V AC/DC			
	Inserted in the slot	Magneto-resistive	SMT-8G	10 30 V DC	PNP	N/O contact	1
	lengthwise	Magneto-resistive	SMT-8-SL	10 30 V DC	PNP	N/O contact	1
		Magnetic reed	SME-8-SL	10 30 V AC/DC	Contacting, bipolar	N/O contact	1
	Via accessories	Magneto-resistive	SMTO-8E	10 30 V DC	PNP	N/O contact	
					NPN		
		Magnetic reed	SMEO-8E	12 30 V DC	Contacting, bipolar	N/O contact	1
		_		3 250 V DC			
				3 230 V AC			
	Corrosion-resistant	1		- 1	1		
	Inserted in the slot	Magneto-resistive	CRSMT-8	10 30 V DC	PNP	N/O contact	T-slot
	lengthwise, flush with the						
	cylinder profile						
	Welding field immune	•	·				
	Via accessories	Magneto-inductive	SMTSO-8E	10 30 V DC	PNP	N/O contact	T-slot
					NPN		
	Heat resistant up to 120°C	1					
	Inserted in the slot	Magnetic reed	SME-8S6	0 30 V AC/DC	Contacting, bipolar	N/O contact	T-slot
	lengthwise, flush with the						
	cylinder profile						
	Via accessories	Magnetic reed	SMEO-8ES6	0 30 V DC	Contacting	N/O contact	T-slot
				0 30 V AC			

Product range overview

T-slot sensors can be used for drives with T-slot

Exceptions



- DFM-B: SMTO-8E, SMTSO-8E, SMEO-8E, SMPO-8E cannot be used
- DHDS: SME-8M can only be used on Ø 50
- DHPS: SME-8M can only be used on Ø 20 ... 35
- HGDD-63-A: SMT-8M-A cannot be used
- HGPT-B: only SMT-8G can be used for size 40 and upwards
- SDBT-BSW- ... -PU/NU can only be used on a limited number of drive series

C-slot sensors can be used for drives with C-slot

Exceptions

- ADVC Ø 100: SMT-10M and SME-10M cannot be used (ADVC has a T-slot and a C-slot)
- DSM/DSM-B-6/8/10: SME-10M cannot be used
- DSM/DSM-B-1 0/16: SMT-10M cannot be used
- HGPT-B: only SMT-10G can be used for sizes up to and including size 35

For drives with sensor rail: these are available with 2 cylinder barrel contours

Only T-slot sensors CRSMT-8M and SMT-8M-A can be used, and only with the suitable profile identified below.



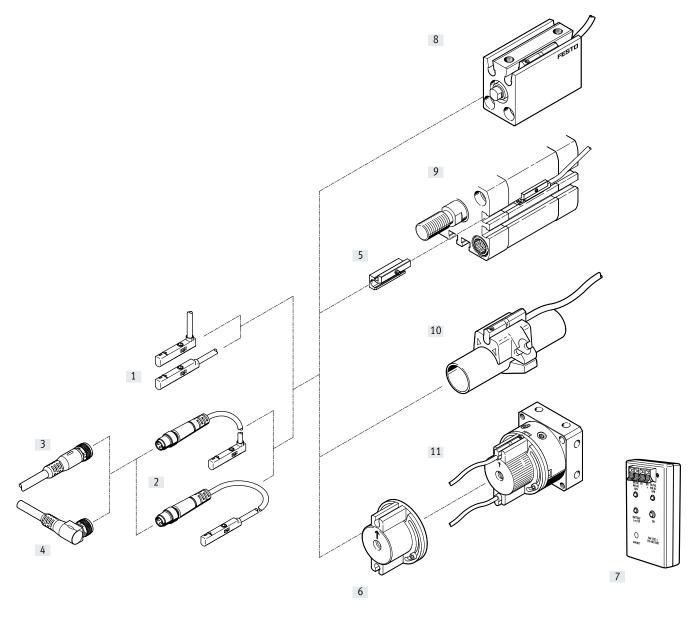
Suitable

Example: CDC



Not suitable

Peripherals overview



Moun	ting attachments and accessories	→ Page/ Internet
Proxi	nity sensor	
[1]	SME-10MOE, with cable	6
[2]	SME-10MM, with cable and plug	6
<u></u>	ution collec	
Conne	ecting cables	
Conne [3]	ecting cables Connecting cable NEBU-MG	13
		13 13
[3] [4]	Connecting cable NEBU-MG	_
[3] [4]	Connecting cable NEBU-MG Connecting cable NEBU-MW	_

Mount	Mounting attachments and accessories					
Access	sories					
[7]	Sensor tester SM-TEST-1	13				
-	Positioning element SMM-10	12				
-	Clip SMBK-10	13				
-	Inscription label ASLR	13				
-	Safety clip NEAU	13				
Drives						
[8]	Drives with C-slot	-				
[9]	Drives with T-slot	-				
[10]	Round cylinders	-				
[11]	Semi-rotary drive DSM	-				

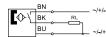
Type codes

001	Series	007	Cable length [m]
SME	Proximity sensor		0.2 10 m
		2,5	2.5 m
002	Design type	0,3	0.3 m
10	For C-slot	008	Display
003	Sensor version	L	LED
М	Inserted in slot from above	009	Cable outlet
004	Switching output	Q	Transverse
ZS	2-wire PNP N/O contact	L	Longitudinal
DS	3-wire N/O contact	010	Cable identification
005	Rated operating voltage		With label holder
24	24 V DC	N	Without label holder
006	Cable characteristic	011	Connection technology
	None	OE	Open end
E	Suitable for energy chains/robot applications	M8	M8, snap-on flange
		M8D	M8, rotatable thread
		M12	M12, rotatable thread

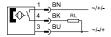
Data sheet - Magnetic reed

Function

e.g. N/O contact, 3-wire, with cable



e.g. N/O contact, 3-wire, with plug



• Magnetic reed measuring principle

- Inserted in the slot from above,
- does not protrude beyond the cylinder profile
- Cable clip and retaining bracket for inscription labels holders included in the scope of delivery





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General technical data

Design	For C-slot		
Conforms to standard	EN 60947-5-2		
Certification	RCM trademark		
	c UL us - Listed (OL)		
Special characteristics	Oil resistant		
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾		
Note on materials	Halogen-free		
	Free of copper and PTFE		
	RoHS-compliant		

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/sp → Certificates. If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Input signal/measuring element

Measured variable	Position
Measuring principle	Magnetic reed
Ambient temperature [°C]	-40 +70

Switching output

Switching output				
Type SME-10M		DS	ZS	
Switching output		Contacting, bipolar		
Switching element function		N/O contact		
Switching output repetition accuracy in	[mm]	0.2		
±mm				
Switch-on time	[ms]	01.2		
Switch-off time	[ms]	01		
Max. switching frequency	[Hz]	50		
Max. output current	[mA]	300	100	
Max. output current in mounting kits	[mA]	50	50	
Max. switching capacity AC	[VA]	9	3	
Max. switching capacity AC in mounting	[VA]	1.5	1.5	
kits				
Max. switching capacity DC	[W]	9	3	
Max. switching capacity DC in mounting	[W]	1.5	1.5	
kits				
Voltage drop	[V]	00.5	0 4.5	

Additional output data

Short circuit current rating	No					
Overload protection	Not present					

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Data sheet – Magnetic reed

Electronics		DS	ZS	
Rated operating voltage	[V DC]	24		
Operating voltage range AC	[V]	5 30		
Operating voltage range DC	[V]	5 30		
Reverse polarity protection		No	Bipolar	

Electromechanical components

Electronicemanical components									
Type SME-10M		DS			ZS				
Electrical connection		OE	M8D	M8	M12	OE	M8D	M8	M12
Electrical connection		Cable, 3-wire	Cable, 3-wire Cable with plug, 3-pin			Cable, 2-wire	Cable with pl	ug, 2-pin	
			M8x1	M8x1	M12x1]	M8x1	M8x1	M12x1
			Rotatable	Snap-on flange	Rotatable	1	Rotatable	Snap-on flange	Rotatable
			thread		thread		thread		thread
Outlet direction of connection		In-line							
		Lateral							
Cable test conditions		Energy chain: 5 million cycles, bending radius 28 mm							
		Torsional resistance: 300,000 cycles, ±270°/0.1 m							
		Resistance to bending: to Festo standard; test conditions on request							
Cable length	[m]	0.2 10							
Cable characteristic	Energy chain + robot								
Information on materials: Cable sheath		TPE-U(PUR)							

Mechanical system

Type of mounting	Screw-clamped, inserted in the slot from above
Max. tightening torque	0.4
Mounting position	Any
Housing	PA-reinforced
	High-alloy stainless steel

Display/operation

Degree of protection

	Switching status indication		Yellow LED			
	Immission/emission					
	Ambient temperature with	[°C]	-20 +70			
	flexible cable installation					

Pin allocation to EN 60947-5-2

M8x1, 2-pin N/O contact				
	Pin	Wire colour	Allocation	
4	1	Brown	+	
1 (+ +)	4	Black	Output	
		· · · ·	<u>.</u>	

IP65 IP68

M8x1, 3-pin N/O contact			
	Pin	Wire colour	Allocation
4	1	Brown	+
1(++)3	3	Blue	-
	4	Black	Output
		Diacit	output

Pin allocation to EN 60947-5-2

M12x1,	2.nin
10112^1	_ z-piii

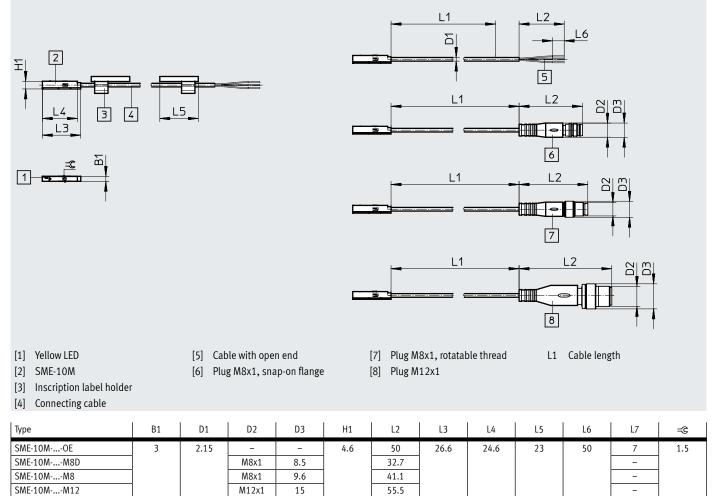
	11 5 2							
M12x1, 2-pin					M12x1, 3-pin			
N/O contact					N/O contact			
	Pin	Wire colour	Allocation			Pin	Wire colour	Allocation
	1	Brown	+		_	1	Brown	+
(+)	4	Black	Output		3(++)1	3	Blue	-
+]	+	4	Black	Output
4				1	6			

Data sheet - Magnetic reed

Dimensions

SME-10M-...-L, in-line connection direction

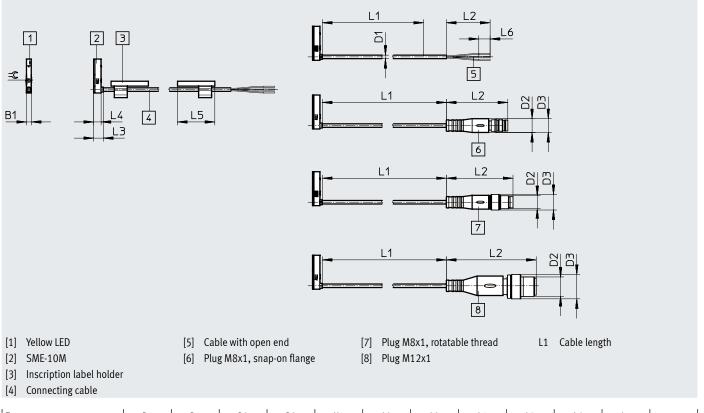
Download CAD data → www.festo.com



Data sheet - Magnetic reed

Dimensions SME-10M-...-Q, lateral connection direction

Download CAD data → www.festo.com



Туре	B1	D1	D2	D3	H1	L2	L3	L4	L5	L6	L7	<u>چ</u>
SME-10MOE	3	2.15	-	-	24.6	50	6	4.6	23	50	7	1.5
SME-10MM8D			M8x1	8.5		32.7					-	
SME-10MM8			M8x1	9.6		41.1					-	
SME-10MM12			M12x1	15		55.5					-	

★ Core product range

Ordering data Switching output Electrical connection Cable Weight Part no. Туре Cable Cable with plug, length [m] [g] rotatable thread N/O contact Contacting, bipolar 3-wire 2.5 16.8 ★ 551365 SME-10M-DS-24V-E-2.5-L-OE M8x1, 3-pin 0.3 6.7 ★ 551367 SME-10M-DS-24V-E-0.3-L-M8D SME-10M-ZS-24V-E-2.5-L-OE 2.5 14.6 ★ 551369 2-wire

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Data sheet – Magnetic reed

Ordering data							
	Switching output	Electrical connection		Cable	Weight	Part no.	Туре
		Cable	Cable with plug,	length			
			rotatable thread	[m]	[g]		
n	N/O contact						
	Contacting, bipolar	3-wire	-	2.5	16.8	551366	SME-10M-DS-24V-E-2.5-Q-OE
		-	M8x1, 3-pin	0.3	6.7	551368	SME-10M-DS-24V-E-0.3-Q-M8D
		2-wire	-	2.5	14.6	551370	SME-10M-ZS-24V-E-2.5-Q-OE
Ŭ							

Ordering data – Modular product system, magnetic reed

Ordering table				
Size	10	Conditions	Code	Enter code
Module no.	551364			
Function	Proximity sensor for C-slot, contacting		SME-10M	SME-10M
			-	-
Switching output	3-wire N/O contact		DS	
Switching output	2-wire N/O contact		ZS	
			-	-
Rated operating voltage [V DC]	24		24V	24V
			-	-
Cable characteristic	Energy chain + robot		E	E
			-	-
Cable length [m]	0.2 10			
	(0.2 5.0 m in 0.1 m increments, 5.0 10 m in 0.5 m increments)			
			-	-
Cable outlet	In-line		L	
	Lateral		Q	
			-	-
Cable designation	With inscription label holder		_	
	Without inscription label holder		N	
			-	-
Connection technology	Open end		OE	
	M8, rotatable thread		M8D	
	M8, snap-on flange		M8	
	M12, rotatable thread		M12	

Accessories

Accessories					
Mounting SMBN-10 for mounting proxim SME/SMT-10 on driv	nity sensors				D1 ∹ ©1
Material: Rail: Anodised wrou alloy Screws: High-alloy s Note on materials: Free of copper and F RoHS-compliant	stainless steel	Y	2		
Dimensions and ord For piston Ø	ering data D1	B1	H1	L1	=©1 Part no. Type
125 320	M3	9.3	8.6	19	1.5 537809 SMBN-10
Positioning elemen Inserted in the slot Ambient temperatu Materials: Housing: Anodised alloy Screws: High-alloy s Note on materials: RoHS-compliant	lengthwise re: –40 +120°C wrought aluminium				
Dimensions and ord	ering data				

Dimensions and	ordering data								
B1	D1	H1	H2	L1	=©1	CRC ¹⁾	Part no.	Туре	PU ²⁾
3.75	3.0	12.23	7.6	4.0	1.5	3	547942	SMM-10	10

1) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts in direct contact with the ambient atmosphere typical for industrial applications, with primarily functional requirements for the surface.

2) Packaging unit

Accessories

Ordering data – Connecting cables

					Data sheets \rightarrow Internet: nebu				
	Туре	Number of wires	Cable length [m]	Part no.	Туре				
Socket M8x1, 3-pin	Socket M8x1, 3-pin								
	For SMT/SME-10	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3				
OT LINE 3			5	★ 541334	NEBU-M8G3-K-5-LE3				
	For SMT/SME-10	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3				
			5	★ 541341	NEBU-M8W3-K-5-LE3				

Ordering data – Mo	Ordering data – Mounting components								
	For Ø	Description	Part no.	Туре					
	6	Mounting kit for mounting proximity sensors on semi-rotary drives DSM	173205	WSM-6-SME-10					
and the second	8		173206	WSM-8-SME-10					
mar low to	10		173207	WSM-10-SME-10					
	_	For fixing connecting cables in place	534255	SMBK-10					
Ē									

Ordering data – Safety clips for ATEX zone

	uernig uata – Sait	ely clips for ATEX 2	one				
		Size	Description	Part no.	Туре	PU ¹⁾	
	e pro-	M8	 Protects "equipment that is not intrinsically safe" in zones 2 and 22 against simple disconnection 	548067	NEAU-M8-GD	1	
4		M12	ATEX category: gas: II 3G / dust: II 3D	548068	NEAU-M12-GD	1	

1) Packaging unit

Ordering data - Sensor testers Description Part no. Type • Testing the functionality of proximity sensors using the integrated voltage supply • Adjusting the proximity switches on the cylinder • Adjus

Ordering data – Inscription labels				
	Size	Part no.	Туре	PU ¹⁾
	23x4 mm	541598	ASLR-L-423	34

1) Packaging unit

Festo core product range

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