



Festo Core Range

Solves the majority of your automation tasks

With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added

the quickest delivery.

The Core Range offers you the best value for your automation tasks.

Worldwide: Simply good:

Fast:

Quickest delivery – wherever, whenever Expected high Festo quality Easy and fast to select



Product range overview

Design	Type of mounting	Measuring principle	Туре	Operating voltage range	Switching output	Switching element function	→ Page/ Internet
For C-slot	Standard						
	Inserted in the slot from above, flush with the cylinder profile	Magneto-resistive	SMT-10M	5 30 V DC	PNP NPN Non-contacting, 2-wire	N/O contact	-
		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	-
For T-slot	Standard						
101 1-3101	Inserted in the slot from above, flush with the	Magneto-resistive	SMT-8M	10 30 V DC	PNP	N/O contact N/C contact	T-slot
	cylinder profile				NPN	N/O contact	
		Magnetic reed	SME-8M	5 30 V AC/DC	Contacting, bipolar	N/O contact	
						N/C contact	
	Inserted in the slot lengthwise, flush with the cylinder profile	Magneto-resistive	SMT-8	10 30 V DC	PNP	N/O contact	
	cylinder profite				INFIN		
	Inserted in the slot lengthwise, flush with the cylinder profile	Magnetic reed	SME-8	12 30 V AC/DC	Contacting, bipolar	N/O contact N/C contact	1
				3 230 V AC/DC		N/O contact	_
				5 250 V AC/DC			
	Inserted in the slot	Magneto-resistive	SMT-8G	10 30 V DC	PNP	N/O contact	
	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 NPN	N/O contact	
		Magnetic reed	SMEO-8E	12 30 V DC	Contacting, bipolar	N/O contact	1
				3 250 V DC			
				3 230 V AC			
	Corrosion-resistant						
	Inserted in the slot lengthwise, flush with the cylinder profile	Magneto-resistive	CRSMT-8	10 30 V DC	PNP	N/O contact	T-slot
	Welding field immune	•					
	Via accessories	Magneto-inductive	SMTSO-8E	10 30 V DC	PNP NPN	N/O contact	T-slot
	Heat resistant up to 120°C	•	,	'	,	•	
	Inserted in the slot lengthwise, flush with the cylinder profile	Magnetic reed	SME-8S6	0 30 V AC/DC	Contacting, bipolar	N/O contact	T-slot
	Via accessories	Magnetic reed	SMEO-8ES6	0 30 V DC	Contacting	N/O contact	T-slot
	4000000			0 30 V AC		, 5 55	

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.

Example: DSBF



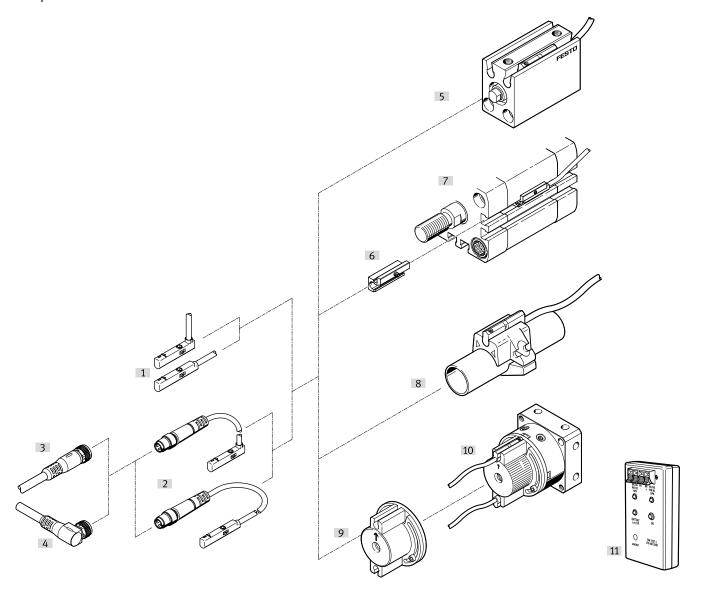
Suitable

Example: CDC



Not suitable

Peripherals overview



	ting attachments and accessories	→ Page/ Internet				
Proximity sensor						
[1]	SME-10MOE, with cable	6				
[2]	SME-10MM, with cable and plug	6				
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	ories							
[11]	Sensor tester SM-TEST-1	1	13					
-	Positioning element SMM-10	1	12					
-	Clip SMBK-10	1	13					
-	Inscription label ASLR	1	13					
-	Safety clip NEAU							
Drives								
[5]	Drives with C-slot	-	-					
[7]	Drives with T-slot	-	-					
[8]	Round cylinders –							
[10]	Semi-rotary drive DSM	Semi-rotary drive DSM -						

Type codes

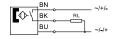
001	Series
SME	Proximity sensor
002	Design type
10	For round slot
003	Sensor version
М	Inserted in the slot from above
004	Switching output
DS	3-wire N/O contact
ZS	2-wire PNP N/O contact
005	Rated operating voltage
24	24 V DC
006	Cable characteristic
	None
E	Suitable for energy chains/robot applications

007	Cable length [m]
	0.2 10 m
0,3	0.3 m
2,5	2.5 m
008	Display
L	LED
009	Cable outlet
Q	Transverse
L	Longitudinal
010	Cable identification
	With label holder
N	Without label holder
011	Connection technology
OE	Open end
M8	M8, snap-on flange
M8D	M8, rotatable thread
M12	M12, rotatable thread

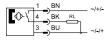
Data sheet – Magnetic reed

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





General technical data					
Design	For C-slot				
Conforms to standard	EN 60947-5-2				
Certification	RCM trademark				
Special characteristics	Oil resistant				
Application information	Support / Actuator-sensor overview				
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾				
	To EU RoHS Directive				
UKCA marking (see declaration of conformity)	To UK instructions for EMC				
	To UK RoHS instructions				
Note on materials	Halogen-free				
	RoHS-compliant				
PWIS conformity	VDMA24364-B2-L				

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			
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]	0 1.2	
Switch-off time	[ms]	0 1	
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]	0 0.5	0 4.5

Additional output data				
Short circuit current rating	No			
Overload protection	Not present			

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									
Type SME-10M		DS				ZS			
Electrical connection		OE	M8D	M8	M12	OE	M8D	M8	M12
Connection type		Cable	Cable with plug		Cable	Cable with plug			
Connection technology		Open end	nd M8x1, M12x1, A-coded to A-coded to		M12x1, A-coded to EN 61076-2-101	Open end	M8x1, M12x1, A-coded to A-coded to EN 61076-2-104 EN 61076-2-		· '
Number of pins/wires		3			2				
Type of mounting		-	- Screw-type lock			-	Screw-type lock		
Outlet direction of connection	Outlet direction of connection		In-line						
		Lateral							
Cable test conditions	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	
Switching status indication	Yellow LED

Immission/emission		
Ambient temperature with	[°C]	-20 +70
flexible cable installation		
Degree of protection		IP65
		IP68

Pin allocation to EN 6094 M8x1, 2-pin N/O contact	7-5-2		
,	Pin	Wire colour	Allocation
4	1	Brown	+
1 + +	4	Black	Output

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

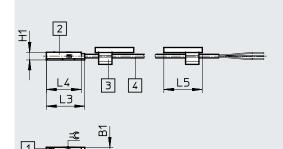
Pin allocation to EN 609 M12x1, 2-pin N/O contact	47-5-2		
	Pin	Wire colour	Allocation
	1	Brown	+
			l -
(+ +)1	4	Black	Output

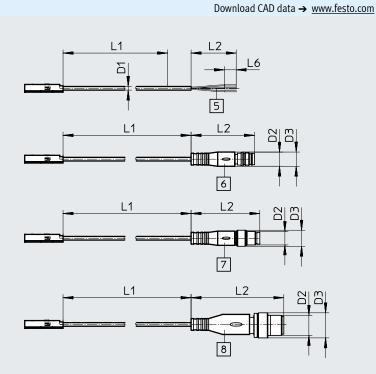
M12x1, 3-pin N/O contact			
	Pin	Wire colour	Allocation
_	1	Brown	+
3(+ +)1	3	Blue	-
+ 1	4	Black	Output
4			

Data sheet – Magnetic reed

Dimensions

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





- [1] Yellow LED
- [2] SME-10M
- Inscription label holder [3]
- [4] Connecting cable
- [5] Cable with open end
- [6] Plug M8x1, snap-on flange
- [7] Plug M8x1, rotatable thread
- [8] Plug M12x1
- L1 Cable length

Туре	B1	D1	D2	D3	H1	L2	L3	L4	L5	L6	L7	= ©
SME-10MOE	3	2.15	-	-	4.6	50	26.6	24.6	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					-	

Data sheet – Magnetic reed

Туре	B1	D1	D2	D3	H1	L2	L3	L4	L5	L6	L7	= ©
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	la vie	ler er i e		lou	luce co	ln .	1-
	Switching output	Electrical connection Cable	Cable with plug, rotatable thread	Cable length [m]	Weight [g]	Part no.	Туре
Р	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
		2-wire	-	2.5	14.6	★ 551369	SME-10M-ZS-24V-E-2.5-L-0E

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-0E		
				_	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-0E		

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 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

Mounting SMBN-10

for mounting proximity sensors SME/SMT-10 on drives with T-slot

Material:

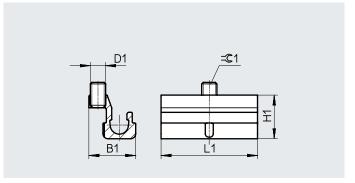
Rail: Anodised wrought aluminium

alloy

Screws: High-alloy stainless steel

Note on materials: Free of copper and PTFE RoHS-compliant





Dimensions and ordering data										
For piston Ø	D1	B1	H1	L1	= ©1	Part no.	Туре			
125 320	M3	9.3	8.6	19	1.5	537809	SMBN-10			

Positioning element SMM

Inserted in the slot lengthwise

Ambient temperature: -40 ... +120°C

Materials:

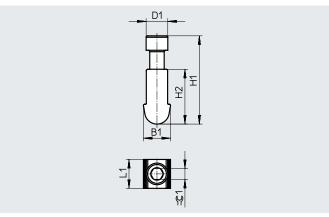
 $\label{thm:constraint} \mbox{Housing: Anodised wrought aluminium}$

alloy

Screws: High-alloy stainless steel

Note on materials: RoHS-compliant





Dimensions and ordering data									1
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

Packaging unit

Accessories

Ordering data – Connecting cables Data sheets								
	Туре	Number of wires	Cable length [m]	Part no.	Type			
Socket M8x1, 3-pin	Socket M8x1, 3-pin							
	For SMT/SME-10	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3			
			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 – Mounting components						
		Forø	Description	Part no.	Туре		
ſ		6	Mounting kit for mounting proximity sensors on semi-rotary drives DSM	173205	WSM-6-SME-10		
		8			WSM-8-SME-10		
		10		173207	WSM-10-SME-10		
		-	For fixing connecting cables in place	534255	SMBK-10		

Ordering data — Safety clips for ATEX zone							
	Size	Description	Part no.	Туре	PU ¹⁾		
	M8	Protects "equipment that is not intrinsically safe" in zones 2 and 22 against simple disconnection	548067	NEAU-M8-GD	1		
	M12	ATEX category: gas: II 3G / dust: II 3D	548068	NEAU-M12-GD	1		

¹⁾ Packaging unit

Ordering data – Sensor testers							
	Description		Туре				
	Testing the functionality of proximity sensors using the integrated voltage supply Adjusting the proximity switches on the cylinder	158481	SM-TEST-1				

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

Packaging unit