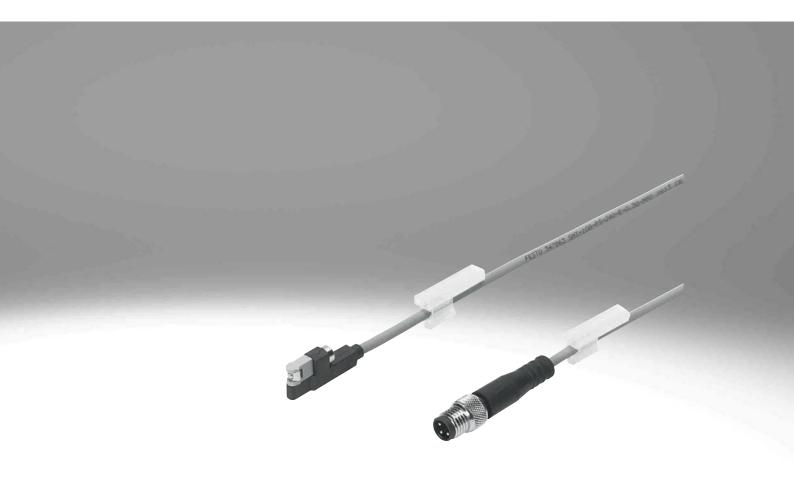
Proximity sensors SMT-10G, for C-slot





★/☆

Festo core product range

Covers 80% of your automation tasks

Worldwide:

Always in stock Superb: Festo quality at an attractive price Easy: 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 6×10^{12} variants per product family

Product range overview

Design	Type of mounting	Measuring principle	Туре	Operating voltage range	Switching output	Switching element function	→ Page/ Internet				
For C-slot	Standard										
	Insertable 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						
		Magnetic reed	SME-10M	5 30 V AC/DC	Contacting, bipolar	N/O contact	-				
	Insertable in the slot	Magneto-resistive	SMT-10G	10 30 V DC	PNP, NPN	N/O contact	6				
	lengthwise	Magnetic reed	SME-10	12 27 V AC/DC	Contacting	N/O contact	-				
or T-slot	Standard										
	Insertable 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	1				
	cylinder profile				NPN	N/O contact	1				
		Magnetic reed	SME-8M	5 30 V AC/DC	Contacting, bipolar	N/O contact	1				
				,	3, 1	N/C contact	1				
	Insertable in the slot lengthwise, flush with the	Magneto-resistive	SMT-8	10 30 V DC	PNP	N/O contact	1				
	cylinder profile				NPN						
	Insertable 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					
	cylinder profile			3 230 V AC/DC		N/O contact					
				5 250 V AC/DC							
	Insertable 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					
		Magnetic reed	SME-8-SL	10 30 V AC/DC	Contacting, bipolar	N/O contact	1				
	Insertable in the slot from above	Magnetic reed	SME-8-FM	10 30 V AC/DC	Contacting, bipolar	N/O contact					
	Via accessories	Magneto-resistive Magnetic reed	SMTO-8E SMEO-8E	10 30 V DC	PNP	N/O contact					
					NPN	1					
				12 30 V DC	Contacting, bipolar	N/O contact					
				3 250 V DC							
				3 230 V AC							
	Corrosion-resistant										
	Insertable 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				<u> </u>						
	Via accessories	Magneto-inductive	SMTSO-8E	10 30 V DC	PNP NPN	N/O contact	T-slot				
	Heat resistant up to 120°C	1			1	1	-				
	Insertable in the slot lengthwise, flush with the	Magnetic reed	SME-8S6	0 30 V AC/DC	Contacting, bipolar	N/O contact	T-slot				
	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 and 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 from 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 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 profile identified as suitable.

Example: DSBF



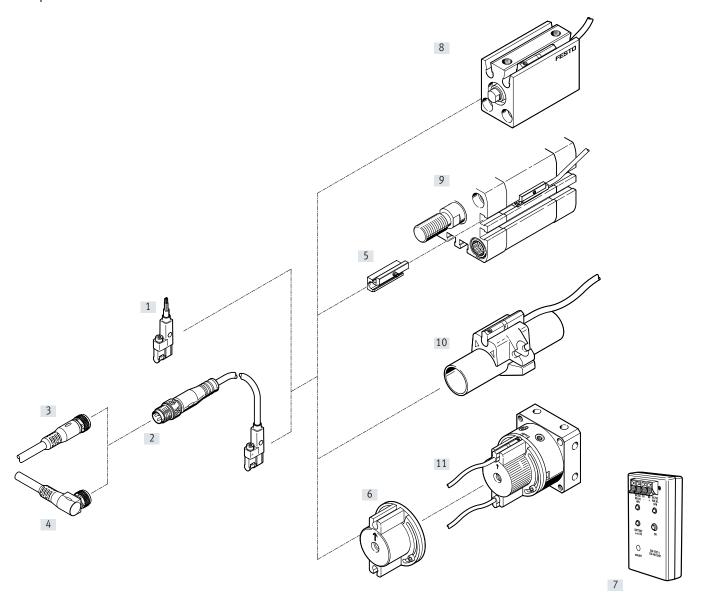
Suitable

Example: CDC



Not suitable

Peripherals overview



Moun	ting components and accessories	→ Page/ Internet				
Proximity sensors						
[1]	SMT-10GOE, with cable	6				
[2]	SMT-10GM, with cable and plug	6				
	cting cables	T				
[3]	Connecting cable NEBU-MG	10				
[4]	Connecting cable NEBU-MW	10				
Moun	ting kits					
[5]	ung kits					
[2]	Mounting kit SMBN-10	9				

Mount	ing components and accessories	→ Page/ Internet
Access	ories	
[7]	Sensor tester SM-TEST-1	10
-	Positioning element SMM-10	9
-	Clip SMBK-10	10
-	Inscription label ASLR	10
-	Safety clip NEAU	10
Drives		
[8]	Drives with C-slot	-
[9]	Drives with T-slot	-
[10]	Round cylinder	-
[11]	Semi-rotary drive DSM	-

Type codes

001	Series
SMT	Proximity sensor
002	Design type
10G	For round slot, inserted in the slot lengthwise
003	Switching output
PS	3-wire PNP N/O contact
NS	3-wire NPN N/O contact
004	Rated operating voltage
24V	24 V

005	Cable characteristic	
E	Suitable for energy chains/robot applications	
006	Cable length [m]	
0.3	0.3	
2.5	2.5	
007	Cable outlet	
Q	Transverse	
008	Electrical connection	
OE	Open end	
M8D	Cable with M8x1 plug, 3-pin, rotatable thread	

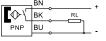
Proximity sensors SMT-10G, for C-slot

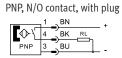
Data sheet - Magneto-resistive

PNP, N/O contact, with cable, 3-wire

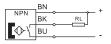


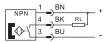
- Magneto-resistive measuring principle
- Insertable in the slot lengthwise
- Design ideal for gripper sensing





NPN, N/O contact, with cable









General technical data	
Design	For C-slot
Based on standard	EN 60947-5-2
Certification	RCM compliance mark
	c UL us Listed (OL)
CE marking (see declaration of conformity)	To EU EMC Directive
	To EU RoHS Directive
KC marking	KCEMC
Note on materials	Free of copper and PTFE
	RoHS-compliant

Input signal/measuring element							
Measuring principle		Magneto-resistive					
Ambient temperature	[°C]	-20 +70					

Switching output

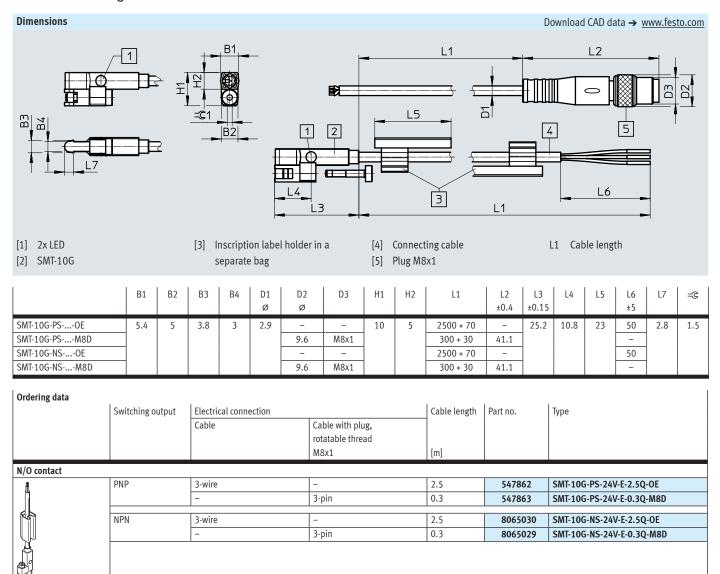
Switching element function		N/O contact
Reproducibility of switching value	[mm]	0.2
Max. output current	[mA]	100
Max. switching capacity DC	[W]	2.8

Output, additional data						
Short circuit protection	Yes					
Overload protection	Present					

Data sheet – Magneto-resistive

Electronics						
Operating voltage range [V DC]	10 30					
Reverse polarity protection	For all electrical connections	For all electrical connections				
Electromechanical components						
Туре	SMT-10GOE	SMT-10GM8D				
Electrical connection						
Connection type	Cable	Cable with plug				
Connection technology	Open end	M8x1, A-coded to EN 61076-2-104				
Number of pins/wires	3	3				
Type of mounting	-	Screw-type lock				
Outlet direction of connection	Lateral	Oston type took				
Cable test conditions	Cable chain: 5 million cycles, bending r	adius 28 mm				
	Torsional resistance: > 300,000 cycles,					
	Resistance to bending: to Festo standar					
Cable length [m]	2.5	0.3				
Cable characteristic	Suitable for energy chains and robot ap					
Information on materials: cable sheath	TPE-U(PU)	pircutions				
mornation on materials, capie sheath	11 2 0(1 0)					
Mechanical components						
Type of mounting	Clamped in C-slot					
	Insertable in the slot lengthwise					
Information on materials: housing	Reinforced PA					
Display/operation						
Switching status indication	Yellow LED					
Immission/emission						
Ambient temperature with [°C]	-5 +70					
flexible cable installation						
Degree of protection	IP65					
	IP68					
Pin allocation to EN 60947-5-2						
PS						
Plug, 3-pin, M8x1						
	Pin Wire colour	Allocation				
,						
4	1 Brown	+				
	3 Blue	-				
1 (+ +) 3	4 Black	Output				

Data sheet – Magneto-resistive



Accessories

Mounting SMBN-10

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

Material:

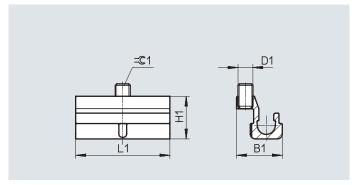
Housing: anodised wrought aluminium

alloy

Screws: high-alloy stainless steel

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





Dimensions and ord	lering 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

Insertable in the slot lengthwise

Ambient temperature: -40 ... +120°C

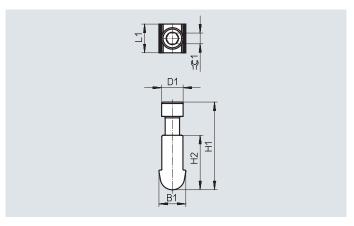
Materials:

Housing: anodised wrought aluminium alloy

Screws: high-alloy stainless steel

Note on materials: RoHS-compliant





Dimensions a	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. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

Packaging unit

Accessories

Ordering data – Connecting cables Data sheets → Internet: nebu						
	Туре	Number of wires	Cable length [m]	Part no.	Type	
Socket M8x1, 3-pi	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				
	For Ø	Description	Part no.	Туре
	6	Mounting kit for mounting proximity sensors on semi-rotary drive DSM	173205	WSM-6-SME-10
	8		173206	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 tester				
	Description	Part no.	Туре	
1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Testing of the functionality of proximity sensors using the integrated voltage supply Adjusting the proximity sensors on the cylinder	158481	SM-TEST-1	

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

¹⁾ Packaging unit

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