Proximity switches for T-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 shipping ex works in 24 hours In stock at 13 Service Centres worldwide More than 2200 products
- ☆ Generally ready for shipping ex works in 5 days Assembled for you at 4 Service Centres worldwide Up to 6 × 10¹² variants per product family



Proximity switches

Product range overview

n	Type of mounting	Measuring principle	Туре	Operating voltage range	Switching output	Switching element function	→ Pa						
lot	Standard												
	Screw-clamped, inserted	Magnetic Hall	SDBT-MSX	10 30 V DC	PNP/NPN, switchable	N/O/	-						
sign T-slot	in the slot from above					N/C contact,							
						switchable							
	Inserted in the slot from	Magneto-resistive	SMT-8M-A	5 30 V DC	PNP	N/O contact	-						
	above, flush with the					N/C contact	1						
	cylinder profile				NPN	N/O contact	1						
					Non-contacting, 2-wire	N/O contact	1						
	Inserted in the slot from	Magnetic reed	SME-8M	5 30 V AC/DC	Contacting, bipolar	N/O contact	-						
	above, flush with the					N/C contact]						
	cylinder profile Inserted in the slot	Magnetic reed	SME-8	12 30 V AC/DC	Contacting, bipolar	N/O contact	-						
	lengthwise, flush with	magnettereea		12 11 90 11 10 90	contacting, sipotal	N/C contact	1						
	the cylinder profile			3 230 V AC/DC	_	N/O contact	-						
	Inserted in the slot	Magneto-resistive	SMT-8G	10 30 V DC	PNP, NPN	N/O contact	-						
	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	-						
	Inserted in the slot from	Magnetic reed	SME-8-FM	10 30 V AC/DC	Contacting, bipolar	N/O contact	-						
	above	magnetic recu		10 50 V Nej De									
	With accessories	Magneto-resistive	SMTO-8E	10 30 V DC	PNP	N/O contact	-						
					NPN	1							
		Magnetic reed	SMEO-8E	12 30 V DC	Contacting, bipolar	N/O contact	7						
				3 250 V DC									
				3 230 V AC									
	Corrosion-resistant												
	Inserted in the slot from	Magneto-resistive	CRSMT-8M	5 30 V DC	PNP	N/O contact	-						
	above, flush with the	-											
	cylinder profile												
	Welding-field-resistant												
	Inserted in the slot from	Magneto-resistive	SDBT-BSW	10 30 V DC	PNP	N/O contact	-						
	above, screw-clamped				NPN								
					Non-contacting, 2-wire	7							
	With accessories	Magneto-inductive	SMTSO-8E	10 30 V DC	PNP	N/O contact	-						
					NPN								
	Heat-resistant up to 120°	C											
	Inserted in the slot	Magnetic reed	SME-8S6	0 30 V AC/DC	Contacting, bipolar	N/O contact	-						
	lengthwise, flush with	-											
	the cylinder profile												
	With accessories	Magnetic reed	SMEO-8ES6	0 30 V DC	Contacting	N/O contact	7						
				0 30 V AC	7								
	To EU Explosion Protectio	n Directive (ATEX)											
	Inserted in the slot from	Magneto-resistive	SDBT-MSEX6	8.2 V DC	NAMUR	NAMUR	-						
	above, screw-clamped												

Product range overview

Design	Type of mounting	Measuring principle	Туре	Operating voltage range	Switching output	Switching element function	→ Page
For C-slot	Standard						
	Inserted in the slot from	Magneto-resistive	SMT-10M	10 30 V DC	PNP	N/O contact	C-slot
	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	1
	Inserted in the slot	Magneto-resistive	SMT-10G	10 30 V DC	PNP	N/O contact	
	lengthwise	Magnetic reed	SME-10	12 27 V AC/DC	Contacting	N/O contact	

T-slot switches 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. Page → 53

C-slot switches 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-10/16: 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 switches CRSMT-8M, SMT-8M-A and SDBT-MS- ... -EX6 can be used, and only with the identified profile. CRSMT-8M and SMT-8M-A can be used for all diameters; SDBT-MS- ... -EX6 cannot be used for diameters 40 and 50.

Example: DSBF

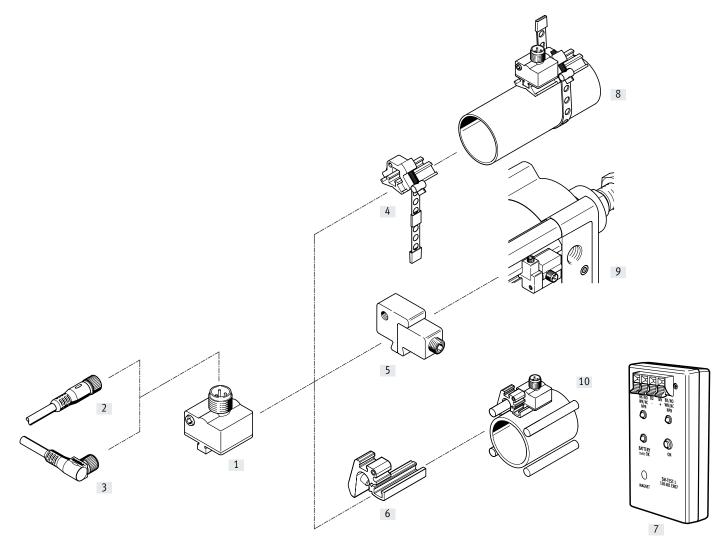


Suitable



Not suitable

Peripherals overview



Peripherals overview

Mou	nting components and accessories	→ Page	Mounting components and accessories → Page						
Proxi	mity switches		Mounti	ng kits and accessories					
[1]	SMEO-8E, with cable or plug	7	Mounting kit SMBR-8-8/100-S6, heat resistant	11					
			[5]	Mounting kit SMB-8E	11				
			[6]	Mounting SMBZ-8	12				
			[7]	Sensor tester SM-TEST-1	13				
			-	Positioning element SMM-8	12				
			-	Clip SMBK-8	13				
			-	Inscription label ASLR	13				
			-	Safety clip NEAU	13				
					•				
Conn	ecting cables		Drives						
[2]	NEBU-MG	13	[8]	Round cylinder	-				
[3]	NEBU-MW	13	[9]	Standards-based cylinder DSBC	-				
	·		[10]	Drives with tie or mounting rod	-				

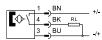
Type codes

001	Series	005	Switching status indication	
SMEO	Proximity sensor, magnetic, reed		None	
	1	LED	Yellow LED	
002	Design type			
8	For T-slot	006	Rated operating voltage	
		24	24 V DC	
003	Sensor version	230	230 V AC	
E	Mounting with accessories			I
		007	Variant	
004	Electrical connection, cable length	S6	Heat-resistant	
К	Cable, 2.5 m or 7.5 m			1
S	Plug M8x1 with cable, 0.3 m			
M12				

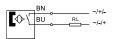
Data sheet - Magnetic reed

Function

 $\rm N/O$ contact, 3-wire, with plug



N/O contact, 2-wire, with cable



Magnetic reed measuring principle

Heat resistant variant



General technical data

	SMEO-8E24	SMEO-8E24-S6, heat-resistant	SMEO-8E230
Design	For T-slot	For T-slot	For T-slot
Conforms to standard	EN 60947-5-2	-	EN 60947-5-2
Certification	-	-	RCM compliance mark
CE marking	To EU EMC Directive ¹⁾	-	To EU EMC Directive ¹⁾
(see declaration of conformity)	-		To EU Low Voltage Directive
Note on materials	Free of copper and PTFE	Free of copper and PTFE	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 \rightarrow 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

input signat/measuring eternent				
		SMEO-8E24	SMEO-8E24-S6, heat-resistant	SMEO-8E230
Measuring principle		Magnetic reed	Magnetic reed	Magnetic reed
Ambient temperature	[°C]	-40 +60	-40 +120	-20 +60

Switching output

		SMEO-8E24	SMEO-8E24-S6, heat-resistant	SMEO-8E230
Switching output		Contacting, bipolar	Contacting	Contacting, bipolar
		-	-	Without LED function
Switching element function		N/O contact	N/O contact	N/O contact
Reproducibility of switching value	[mm]	±0.1	±0.1	±0.1
Switch-on time	[ms]	0 0.5	0 0.5	02
Switch-off time	[ms]	0.03	0.03	0.03
Max. switching frequency	[Hz]	800	500	500
Max. output current	[mA]	500	500	120
Max. switching capacity DC	[W]	10	10	10
Max. switching capacity AC	[VA]	10	10	10
Voltage drop	[V]	-	0.5	3.9

Output, additional data

Short circuit current rating	No
Overload protection	Not provided

Electronics

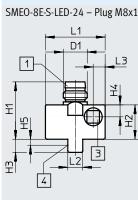
		SMEO-8E24	SMEO-8E24-S6, heat-resistant	SMEO-8E230
Operating voltage range DC	[V]	12 30	030	3 250
Operating voltage range AC	[V]	12 30	0 30	3 230
Reverse polarity protection		No	For all electrical connections	No

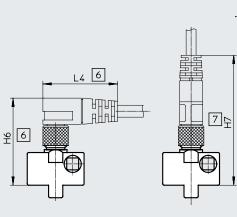
Data sheet – Magnetic reed

Npe SMED 8E - S LED - 24	Electromechanics											
Electrical connection Plug M82:1, 3-pin Plug M12:1, 3-pin Cable. 2-vire Plug M12:1, 3-pin Dutted direction of connection Lateral Latera	Гуре			SMEO-8E	-S-LED-24	SMEO-8E	-M12-LED-24				SMEO-8	3E-M12-LED-230
Lateral Lateral Lateral Lateral Lateral Lateral Inite information on materials: Pin contacts Nickel plated brass Brass -												
Information on materials: Pin contacts Nickel-plated brass Brass -	Electrical connection			Plug M8x1, 3-pin Plug		Plug M12	2x1, 3-pin	Cable, 2-	wire		Plug M	12x1,3-pin
Cable length [m] - - 2.5 - Information on materials: Cable sheath - IPE S - - Mechanics Vppe SME0-8E S-LED-24 SME0-8E-M12-LED-24 heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, heat-resistant SME0-8E-K-24-66, Mit decessories With accessories Display/operation SME0-8E-K-24 SME0-8E-K-24-66, heat-resistant SME0-8E-K-230 Switching status indication Yellow LED - Yellow LED - Immission/emission SME0-8E-K-24 SME0-8E-K-24-66, heat-resistant SME0-8E-K-230 Switching status indication Yellow LED - - - Immission/emission SME0-8E-K-24 SME0-8E-K-24-66, heat-resistant SME0-8E-K-230 Sugge resistance [V] 0.8 - - - Sugge resistance [V] 0.8 - - - Sugge resistance [V] <						Lateral		Lateral			In-line	
Information on materials: Cable sheath - IPE-S - Mechanics Type SME0-8E-S-LED-24 SME0-8E-M12-LED-24 SME0-8E-K24-S6, heat-resistant SME0-8E-M12-LED-24 Type of mounting With accessories With accessories With accessories With accessories Type of mounting With accessories With accessories With accessories With accessories Type of mounting With accessories With accessories With accessories With accessories Information on materials: Housing TPE-U(PU) TPE-U(PU) TPE-U(PU) TPE-U(PU) High-alloy stainless steel High-alloy stainless steel - High-alloy stainless steel - Wrought aluminium alloy Wrought aluminium alloy Wrought aluminium - - Display/operation SMEO-8E24 SMEO-8E24/S6, heat resistant SMEO-8E230 Switching status indication Yellow LED - - - Installation IP65 IP65 IP65 IP65 Installation IP67 IP67 IP67 IP67 Insulation to IX 60947-5-2 MS0.3 3 3 3 Yi/2 or act Yi/2 or action I I ISoona - 1 <td>Information on materials:</td> <td>Pin contact</td> <td></td> <td>Nickel-pla</td> <td>ated brass</td> <td>Brass</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>	Information on materials:	Pin contact		Nickel-pla	ated brass	Brass					-	
Mechanics Type SME0-8E-S-LED-24 SME0-8E-M12-LED-24 SME0-8E-K-24-S6, heat-resistant SME0-8E-K-230-S6-S6, heat-resistant Display/operation SME0-8E-K-24 SME0-8E-K-24-S6, heat-resistant SME0-8E-K-230 A Wellow LED Immission SME0-8E-K-24 SME0-8E-K-24-S6, heat-resistant SME0-8E-K-230 A Wellow LED Immission SME0-8E-K-24 SME0-8E-K-24-S6, heat-resistant SME0-8E-K-230 A Wellow LED - Immission SME0-8E-K-24-S6, heat-resistant SME0-8E-K-24-S6, heat-resistant SME0-8E-K-24-S6, heat-resistant SME0-8E-K-24-S0 Opereof	•			-		-					-	
Type SMEO-8E-S-LED-24 SMEO-8E-M12-LED-24 heat-resistant SMEO-8E-K12-45, heat-resistant SMEO-8E-K12-45, heat-resistant SMEO-8E-K12-LED-2 heat-resistant SMEO-8E-K12-LED-2 heat-resistant SMEO-8E-K12-LED-2 heat-resistant SMEO-8E-K12-LED-2 kmeas-resistant SMEO-8E-K12-LED-	Information on materials:	Cable shea	th	-		-		TPE-S			-	
SMEO-8E-S-LED-24 SMEO-8E-M12-LED-24 SMEO-8E-M12-LED-24 heat-resistant SMEO-8E-M12-LED	Mechanics											
Tightening torque [Nm] 0.5 0.5 0.5 0.5 0.5 Information on materials: Housing TPE-U(PU) TPU <ted< td=""> T</ted<>				SMEO-8E	-S-LED-24	SMEO-8E	-M12-LED-24	-	,		SMEO-8	BE-M12-LED-230
TPE-U(PU) TPE-U(PU) <t< td=""><td>Type of mounting</td><td></td><td></td><td>With acce</td><td>ssories</td><td>·</td><td></td><td>With acce</td><td>ssories</td><td></td><td>With ac</td><td>cessories</td></t<>	Type of mounting			With acce	ssories	·		With acce	ssories		With ac	cessories
High-alloy stainless steel High-alloy stainless steel High-alloy stainless steel High-alloy stainless steel Wrought aluminium alloy Immission SME0-8E24 SME0-8E2456, heat resistant SME0-8E230 Switching status indication Yellow LD – – Yellow LD – – Yellow LD – – – 200 Immission/emission SME0-8E24 SME0-8E24 Sheet resistant SME0-8E230 – <td>Tightening torque</td> <td></td> <td>[Nm]</td> <td>0.5</td> <td></td> <td>0.5</td> <td></td> <td>0.5</td> <td></td> <td></td> <td>0.5</td> <td></td>	Tightening torque		[Nm]	0.5		0.5		0.5			0.5	
Wrought aluminium alloy Nickel-plated brass Wrought aluminium alloy Nickel-plated brass Wrought aluminium - Display/operation SME0-8E24 SME0-8E24/S6, heat-resistant SME0-8E230 Switching status indication Yellow LED - Yellow LED Immission/emission SME0-8E24 SME0-8E24/S6, heat-resistant SME0-8E230 Ambient temperature with flexible cable [°C] - - - - Immission/emission SME0-8E24 SME0-8E24/S6, heat-resistant SME0-8E230 Ambient temperature with flexible cable [°C] - - - Immission/emission SME0-8E24 SME0-8E24/S6, heat-resistant SME0-8E230 Degree of protection IP65 IP65 IP67 IP67 Insulation voltage IV - - 4 - Surge resistance [IV] 0.8 - - 4 Pollution degree 3 3 3 3 3 Pin allocation to EN 60947-5-2 Mix1, 3-pin, 24 V N/0 contact <	Information on materials:	Housing		TPE-U(PU)	TPE-U(PU)	TPE-U(PU)		TPE-U(F	U)
Wrought aluminium alloy Nickel-plated brass Wrought aluminium alloy Nickel-plated brass Wrought aluminium alloy Nickel-plated brass Display/operation SMEO-8E24 SMEO-8E24/SMEO-8E24/SMEO-8E24/SMEO-8E230 Immission/emission SMEO-8E24 SMEO-8E24/SMEO-8E24/SMEO-8E230 Ambient temperature with flexible cable [°C] - - Vellow LED - Ambient temperature with flexible cable [°C] - - 1965 IP65 IP67 IP				High-allo	y stainless steel	High-allo	y stainless steel	-			High-al	loy stainless steel
Display/operation SMEO-8E24 SMEO-8E24 SMEO-8E230 Switching status indication Yellow LED - Yellow LED Immission/emission SMEO-8E24 SMEO-8E24-S6, heat-resistant SMEO-8E230 Ambient temperature with flexible cable [°C] - -40+120 - Installation IP65 IP65 IP67 Degree of protection IP67 IP67 IP67 Insulation voltage M - 50 - Surge resistance [kV] 0.8 - 4 Pollution degree 3 3 3 3 Pin allocation to EN 60947-5-2 M12x1, 3-pin, 24 V N/0 contact N/0 contact 1 Brown + - - 4 Black Output Pin allocation to EN 60947-5-2 M12x1, 3-pin, 24 V N/0 contact - - - - 1 Brown + - - - - - - 1 Black Output II Black Output - -												
SMEO-8E24 SMEO-8E24-56, heat-resistant SMEO-8E230 Switching status indication Yellow LED - Yellow LED Immission/emission SMEO-8E24 SMEO-8E24/56, heat-resistant SMEO-8E230 Ambient temperature with flexible cable [°C] - - - - Installation - - - - - - Degree of protection IP65 IP65 IP67 IP67 IP67 Insulation voltage [V] - 50 - - Surge resistance [kV] 0.8 - - 4 Pollution degree 3 3 3 3 3 3 Pin allocation to EN 60947-5-2 M8x1, 3-pin N/0 contact M12x1, 3-pin, 24 V N/0 contact Allocation 1 Brown + - - - - 1.1 Black Output IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				Nickel-pla	ated brass	-					-	
Immission SME0-8E24 SME0-8E24/S6, heat-resistant SME0-8E230 Ambient temperature with flexible cable [°C] - - Ambient temperature with flexible cable [°C] - OPERATION OF The second of th												
SME0-8E24 SME0-8E246, heat-resistant SME0-8E230 Ambient temperature with flexible cable $[^{\circ}C]$ - -40+120 - installation IP65 IP65 IP65 IP65 Degree of protection IP65 IP65 IP67 Insulation voltage [V] - 50 - Surge resistance [kV] 0.8 - 4 Pollution degree 3 3 3 3	Switching Status Indicatio	Л		Tellow LLD						Tellow LL	.0	
Degree of protection IP65 IP67 IP67 IP67 Insulation voltage [V] - 50 - - Surge resistance [kV] 0.8 - 4 Pollution degree 3 3 3 3 Pin allocation to EN 60947-5-2 M8x1, 3-pin M12x1, 3-pin, 24 V N/O contact 4^{+} 1 Brown + 1^{+} 3 Blue - 4^{+} Black Output 4^{+} Black Output		h flexible ca	ble [°C]		24			ó, heat-resista	nt		230	
Insulation voltage [V] - 50 - Surge resistance [kV] 0.8 - 4 Pollution degree 3 3 3 Pin allocation to EN 60947-5-2 M8x1, 3-pin N/O contact M12x1, 3-pin, 24 V N/O contact 4 1 Brown + 3 Blue - 4 $1 + + + 3$ 1 Brown + 4 Black Output 3 Blue - Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact 1 Brown + Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact 4 Black 0 utput				IP65		IP65			IP65			
Surge resistance [kV] 0.8 $ 4$ Pollution degree 3 3 3 Pin allocation to EN 60947-5-2 M12x1, 3-pin, 24 V N/O contact M12x1, 3-pin, 24 V N/O contact $\sqrt{1+++}3$ 1 Brown $+$ 3 1 Brown $+$ $1 + + + 3$ 1 Brown $+$ 3 1 Brown $+$ $1 + + + 3$ 1 Blue $ 4$ Black $ 4$ Black 0 utput Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact $ 4$ Black $ 4$ Black $ -$ </td <td></td> <td></td> <td></td> <td>IP67</td> <td></td> <td></td> <td>IP67</td> <td></td> <td></td> <td>IP67</td> <td></td> <td></td>				IP67			IP67			IP67		
Origonalization (m) (m) (m) Pollution degree 3 3 Pin allocation to EN 60947-5-2 M8x1, 3-pin M12x1, 3-pin, 24 V N/O contact N/O contact 1 Brown 1 Brown 4 Black 0utput Pin allocation to EN 60947-5-2 M12x1, 3-pin, 24 V N/O contact Pin allocation to EN 60947-5-2 M12x1, 3-pin, 23 V N/O contact Pin allocation to EN 60947-5-2 M12x1, 3-pin, 23 V N/O contact Pin Wire colour 4 Black Pin Wire colour	Insulation voltage		[V]	-			50			-		
Pin allocation to EN 60947-5-2 M8x1, 3-pin N/O contact 4 1 Brown $+$ 3 Blue $ 4$ Black Output 1 Brown $+$ 3 Blue $ 4$ Black Output	Surge resistance		[kV]	0.8			-			4		
M8x1, 3-pin M12x1, 3-pin, 24 V N/O contact Pin Wire colour Allocation 4 1 Brown + 3 Blue - 4 Black Output Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation	Pollution degree			3			3			3		
N/O contact Pin Wire colour Allocation 4 1 Brown + 3 Blue - 4 Black Output Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation	Pin allocation to EN 6094	47-5-2										
N/O contact Pin Wire colour Allocation 4 1 Brown + 3 Blue - 4 Black Output Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation							M12x1, 3-pin, 24 V					
4 1 (++)3 1 Brown + 3 Blue - 4 Black Output Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation 4 Black - 4 Black -												
1 3 Blue - 4 Black Output 3 ++++1 4 Black 9in allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour 4 Black - 4 Black - - - - 4 Black -		Pin	Wire colour		Allocation			Pin	Wire co	olour	1	Allocation
1 3 Blue - 4 Black Output 3 +++++ 4 Black 9in allocation to EN 60947-5-2 W12x1, 3-pin, 230 V N/O contact Pin Wire colour 4 Black	4	1	Brown		+			1	Brown			÷
Image: Pin allocation to EN 60947-5-2 W12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation 4 Black Output	1 (+ +)3				_		3(+)					
Pin allocation to EN 60947-5-2 M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation 4 Black ~/+	· (+)				Output							Dutput
M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation 4 Black ~/+							4					
M12x1, 3-pin, 230 V N/O contact Pin Wire colour Allocation 4 Black ~/+												
N/O contact Pin Wire colour Allocation 4 Black ~ / +		47-5-2										
Pin Wire colour Allocation 4 Black ~/+												
4 Black ~/+	N/O contact			1	1			I				
				Pin	Wire colour			All	ocation			
				4	Black			~ /	+			
	3(+ +)			3	Blue							
	+											

Data sheet - Magnetic reed







Download CAD data \rightarrow <u>www.festo.com</u>

- [1] Suitable for plug socket type SIM-M8
- [2] Yellow light emitting diode
- [3] Socket head screw M3x25DIN 912, max. tightening torque1 Nm
- [4] Theoretical switching point
- [5] Mounting kit SMB-8E (not included in scope of delivery)
- [6] Installation space for angled plug socket 90°
- [7] Installation space for straight plug socket

Download CAD data \rightarrow <u>www.festo.com</u>

	B1 ±0.3	B2	D1	H1	H2 ±0.27	H3	H4	H5	H6	H7	L1 ±0.3	L2	L3	L4
SMEO-8ES-LED-24	20	28	M8x1	19.2	11.5	4.4	4	2.2	~32	~46	20	5	4	~26

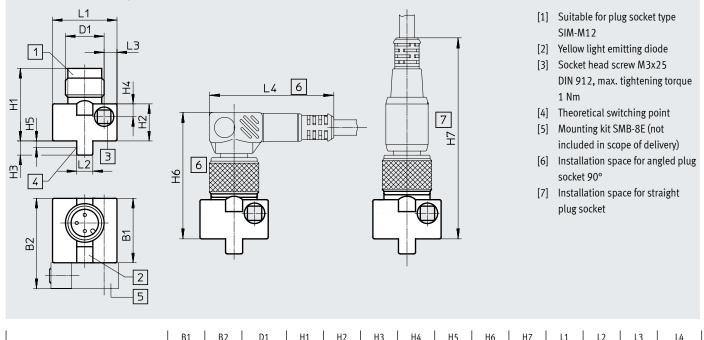
Dimensions

B2

SMEO-8E-M12-LED-24 - Plug M12x1

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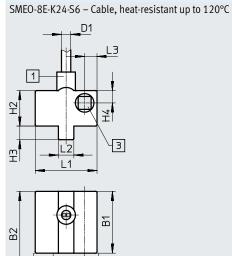
2



	B1 ±0.3	B2	D1	H1 ±0.34	H2 ±0.27	H3	H4	H5	H6	H7	L1 ±0.3	L2	L3	L4
SMEO-8EM12-LED-24	20	28	M12x1	22.5	11.5	4.4	4	2.2	~36	~59	20	5	4	~36.5

Data sheet – Magnetic reed

Dimensions



5

Download CAD data → <u>www.festo.com</u>

- [1] Cable, 2.5 m long, 2×0.14 mm²
- [3] Socket head screw M3x25DIN 912, max. tightening torque1 Nm
- [5] Mounting kit SMB-8E (not included in scope of delivery)

	B1 ±0.3	B2	D1	H2 ±0.27	H3	H4	L1 ±0.3	L2	L3
SMEO-8E-K24-S6	20	28	2.9	11.5	4.4	4	20	5	4

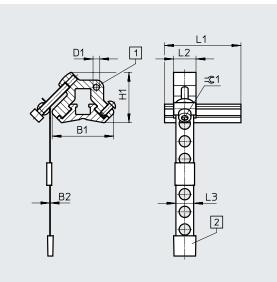
Ordering data							
	Switching output	Electrical connec	tion	Cable length	Product	Part no.	Type
		Plug M8x1	Plug M12x1		weight		
				[m]	[g]		
N/O contact, ba	sic version						
P	Contacting, bipolar	3-pin	-		10	171163	SMEO-8E-S-LED-24
		_	3-pin		9	171164	SMEO-8E-M12-LED-24
		-	2-011		9	1/1104	SINEO-0E-W12-LED-24
I/O contact, he	at-resistant	-				-	·
4	Contacting, bipolar	2-wire	-	2.5	40	171158	SMEO-8E-K-24-S6
I/O contact, op	erating voltage range 3	250 V AC/DC					
	Contacting, bipolar	-	3-pin	-	9	171160	SMEO-8E-M12-LED-230

Accessories

Mounting kit SMBR-8-8/100-S6

Material: Rail: Anodised wrought aluminium alloy Clamping strap, screws: High-alloy stainless steel Free of copper and PTFE RoHS-compliant





Dimensions and ordering data

For piston Ø	B1	B2	D1	H1	L1	L2	L3	=© 1	CRC ¹⁾	Part no.	Туре
8 100	27.4	0.2	M3	22.4	34	10	7.9	2.5	4	★ 538937	SMBR-8-8/100-S6

1) Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (
adjusted as of N 940082), using appropriate media.

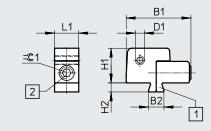
Mounting kit SMB-8E

Material:

Anodised aluminium, stainless steel

Note on materials: RoHS-compliant





Suitable for T-slot
 Max. tightening torque 1 Nm

Ordering data									
For piston Ø	B1	B2	D1	H1	H2	L1	=©1	Part no.	Туре
10 125	21.5	5.1	M3	11.5	3	8	2.5	178230	SMB-8E

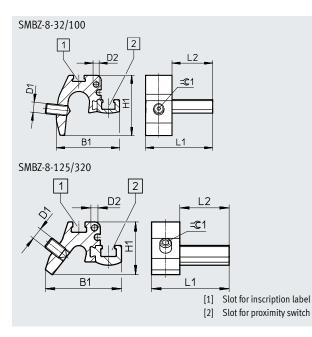
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Accessories

Mounting SMBZ-8-...

Material: Rail: Anodised wrought aluminium alloy Screws: High-alloy stainless steel Free of copper and PTFE RoHS-compliant





Dimensions and ordering data									
For piston Ø	B1	D1	D2	H1	L1	L2	=©1	Part no.	Туре
32 100	31	M5	M3	30	33	20	1.5	537806	SMBZ-8-32/100
125 320	32.3			22			2.5	537808	SMBZ-8-125/320

Positioning element SMM

Inserted in the slot lengthwise

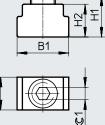
Ambient temperature: -40 ... +120°C

Materials:

Housing: Anodised wrought aluminium alloy Screws: High-alloy stainless steel

Note on materials: RoHS-compliant





Dimensions and order	ring data							
B1	H1	H2	L1	=G1	CRC ¹⁾	Part no.	Туре	PU ²⁾
6.3	5.0	4.0	4.0	1.5	3	547941	SMM-8	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.

2) Packaging unit

Accessories

		Number of wires	Cable length [m]	Part no.	Туре
		Number of writes	cable length [m]	Tart no.	type
ocket M8	(1, 3-pin				
	For SMT/SME-8 and	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3
E Jan	SMTO/SMTSO/SMEO-8E		5	★ 541334	NEBU-M8G3-K-5-LE3
	For SMT/SME-8 and	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3
<u> </u>	SMTO/SMTSO/SMEO-8E		5	★ 541341	NEBU-M8W3-K-5-LE3
ocket M12	2x1, 5-pin				
1	For SMT/SME-8M and	3	2.5	★ 541363	NEBU-M12G5-K-2.5-LE3
D	SMTO/SMTSO/SMEO-8E		5	★ 541364	NEBU-M12G5-K-5-LE3
	For SMT/SME-8M and	3	2.5	541367	NEBU-M12W5-K-2.5-LE3
<u> </u>	SMTO/SMTSO/SMEO-8E		5	541370	NEBU-M12W5-K-5-LE3
ocket M12	2x1, resistant to welding spatter				
9	For SDBT and SMTSO	3	3	30450	SIM-M12-RS-3GD-3
	For SDBT and SMTSO	3	3	30451	SIM-M12-RS-3WD-3
<u></u>					

Ordering data – Safety clip	for ALEX zone	
Size	Description	

Ordering data	- Safety clip for /	ATEX zone			
	Size	Description	Part no.	Туре	PU ¹⁾
8	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 – Mounting components

Ordering data	Ordering data – Mounting components					
	Description	Part no.	Туре			
	For fixing connecting cables in place	534254	SMBK-8			

Ordering data – Sensor tester

Ordering d	ata – Sensor tester		
	Description	Part no.	Туре
	 Testing the functionality of proximity switches using the integrated voltage supply Adjusting 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

1) Packaging unit