

Proximity sensors SMT/SME-8, for T-slot



Proximity sensors SMT/SME

Product range overview

Design	Type of mounting	Measuring principle	Type	Operating voltage range	Switching output	Switching element function	➔ Page/Internet
For T-slot	Standard						
	Insertable in the slot from above, flush with the cylinder profile	Magneto-resistive	SMT-8M-A	5 ... 30 V DC	PNP	N/O contact	7
					NPN	N/C contact	
					Non-contacting, 2-wire		
	Insertable in the slot from above, flush with the cylinder profile	Magnetic reed	SME-8M	5 ... 30 V AC/DC	Contacting, bipolar	N/O contact	15
						N/C contact	
	Insertable in the slot lengthwise, flush with the cylinder profile	Magnetic reed	SME-8	12 ... 30 V AC/DC	Contacting, bipolar	N/O contact	26
						N/C contact	
				3 ... 230 V AC/DC		N/O contact	29
	Insertable in the slot lengthwise	Magneto-resistive	SMT-8G	10 ... 30 V DC	PNP	N/O contact	31
		Magneto-resistive	SMT-8-SL	10 ... 30 V DC	PNP	N/O contact	22
		Magnetic reed	SME-8-SL	10 ... 30 V AC/DC	Contacting, bipolar	N/O contact	26
	Insertable in slot from above	Magnetic reed	SME-8-FM	10 ... 30 V AC/DC	Contacting, bipolar	N/O contact	37
	Via accessories	Magneto-resistive	SMT0-8E	10 ... 30 V DC	PNP	N/O contact	40
					NPN		
		Magnetic reed	SME0-8E	12 ... 30 V DC	Contacting, bipolar	N/O contact	44
				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	22
	Welding field immune						
	Via accessories	Magneto-inductive	SMTSO-8E	10 ... 30 V DC	PNP	N/O contact	40
					NPN		
Heat-resistant up to 120 °C							
Insertable in the slot lengthwise, flush with the cylinder profile	Magnetic reed	SME-8-...-S6	0 ... 30 V AC/DC	Contacting, bipolar	N/O contact	29	
Via accessories	Magnetic reed	SME0-8E-...-S6	0 ... 30 V DC	Contacting	N/O contact	44	
			0 ... 30 V AC				
To EU Explosion Protection Directive (ATEX)							
Clamped in T-slot	Magneto-inductive	SMT-8F-I-...	8.2 V DC	NAMUR	NAMUR	34	

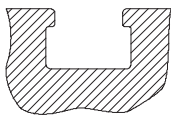
Proximity sensors SMT/SME

Product range overview

Design	Type of mounting	Measuring principle	Type	Operating voltage range	Switching output	Switching element function	➔ Page/Internet
For C-slot	Standard						
	Insertable in the slot from above, flush with the cylinder profile	Magneto-resistive	SMT-10F	5 ... 30 V DC	PNP	N/O contact	C-slot
				10 ... 30 V DC	NPN		
		Magnetic reed	SME-10F	10 ... 30 V AC/DC	Contacting, bipolar	N/O contact	
				5 ... 30 V AC/DC			
	Insertable in the slot lengthwise	Magneto-resistive	SMT-10G	10 ... 30 V DC	PNP	N/O contact	
		Magneto-resistive	SMT-10	10 ... 30 V DC	PNP	N/O contact	
					NPN		
	Magnetic reed	SME-10	12 ... 27 V AC/DC	Contacting	N/O contact		

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

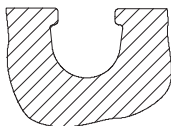
Exceptions



- DFM-B: SMxO-8E cannot be used
- DHDS: SME-8M can only be used on \varnothing 50
- DHPS: SME-8M can only be used on \varnothing 20 ... 35
- HGDD-63-A: SMT-8M-A cannot be used

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

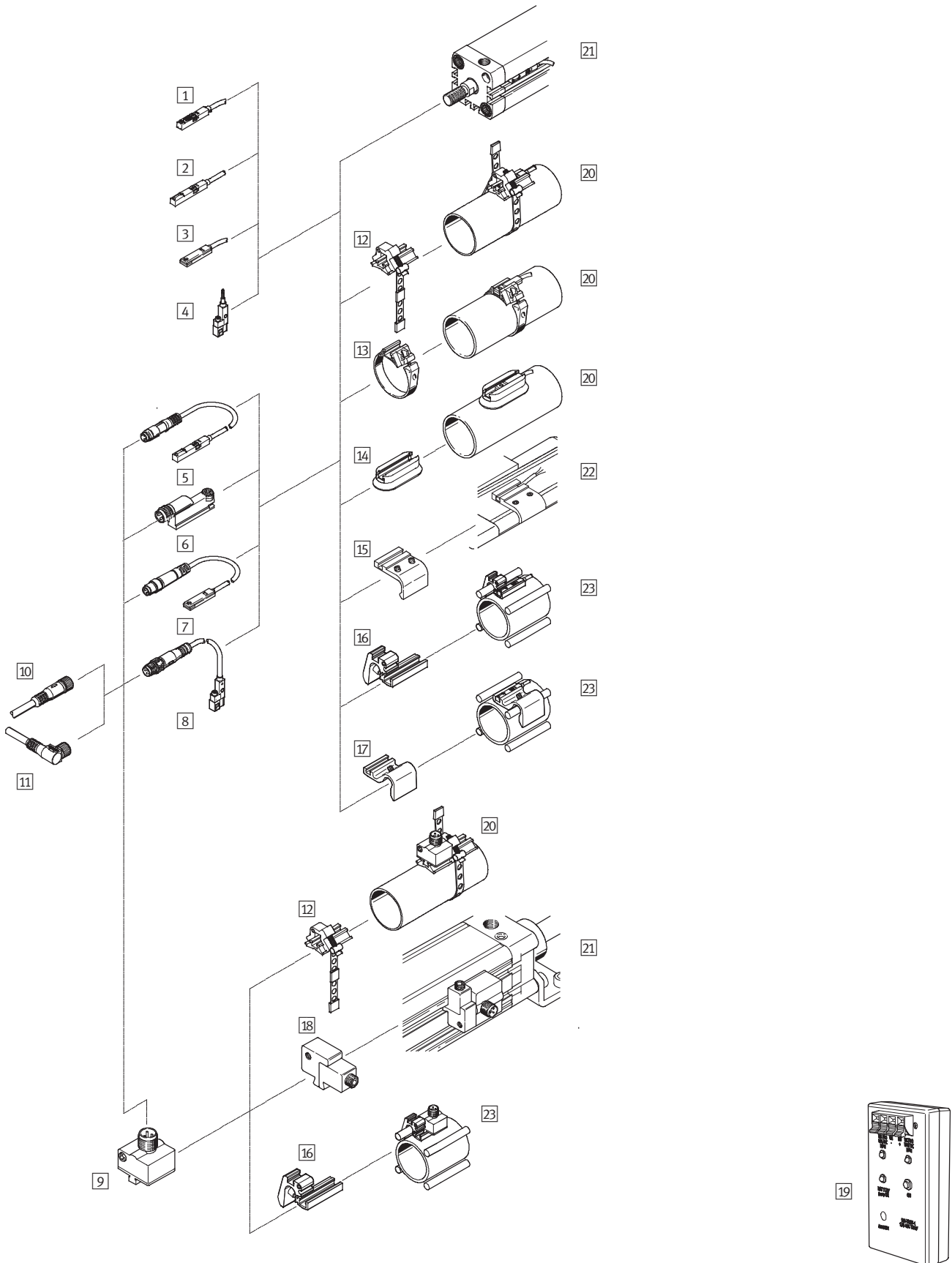
Exceptions



- ADVC \varnothing 100: SMT-10M and SME-10M cannot be used (ADVC is equipped with 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

Proximity sensors SMT/SME-8, for T-slot

Peripherals overview



Proximity sensors SMT/SME-8, for T-slot

Peripherals overview

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Mounting attachments and accessories		→ Page/ Internet
Proximity sensors		
1	SMT-8M-A-..., with cable	7
2	SME-8M-...-OE, with cable	15
3	SME-8-FM-...-K-..., with cable	37
	CRSMT-8-K-..., with cable, corrosion-resistant	22
4	SMT-8G-...-OE, with cable	32
5	SME-8M-...-M..., with cable and plug	15
6	SMT-8-SL-..., with plug	22
	SME-8-SL-..., with plug	26
7	SMT-8-S-..., with cable and plug	22
	SME-8-S-..., with cable and plug	26
8	SMT-8G-...-M..., with cable and plug	32
9	SMT0/SMTSO, with plug	40
	SME0-8E, with cable or plug	44
Connecting cables		
10	NEBU-M...G...	52
11	NEBU-M...W...	52

Mounting attachments and accessories		→ Page/ Internet
Mounting kits and accessories		
12	Mounting kit SMBR-8-8/100-S6, heat-resistant	48
13	Mounting kit SMBR	48
14	Mounting kit CRSMB, corrosion-resistant	49
15	Mounting kit SMB-8-FENG	49
16	Mounting component SMBZ-8-...	51
17	Sensor retainer DASP-M4-... for DSBG-125	50
18	Mounting kit SMB-8E	50
19	Sensor tester SM-TEST-1	52
-	Position marker SMM-8	51
-	Clip SMBK-8	52
-	Inscription label ASLR	52
-	Safety clip NEAU	52
Drives		
20	Round cylinders	-
21	Drives with T-slot	
22	Standard cylinders DNC, DNCKE	
23	Drives with tie or mounting rod	

Proximity sensors SMT-8M-A, for T-slot

Type codes

SMT-8M-A

SMT-8M - A - PO - 24V - E - 0,5 - N - OE -

Function	
SMT-8M	Proximity sensor, magneto-resistive, for T-slot, insertable in the slot from above

Series	
A	Short design

Switching output	
PS	PNP, N/O contact, 3-wire
PO	PNP, N/C contact, 3-wire
NS	NPN, N/O contact, 3-wire
ZS	N/O contact, 2-wire
PNS	PNP, NPN switchable
PSO	PNP N/C contact, N/O contact switchable

Rated operating voltage	
24V	24 V DC

Cable characteristics	
E	Energy chain + robot

Cable length [m]	

Cable designation	
-	With inscription label holder
N	Without inscription label holder

Electrical connection	
OE	Open end
M8	Cable with plug M8x1, snap-on flange
M8D	Cable with plug M8x1, rotatable thread
M12	Cable with plug M12x1, rotatable thread

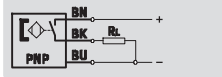
EU certification	
Ex2	II 3GD in accordance with EU Directive 94/9/EC

Proximity sensors SMT-8M-A, for T-slot

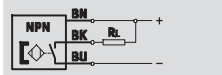
Technical data – Magneto-resistive

Function

E.g. PNP, N/O contact, with cable



E.g. NPN, N/O contact, with cable



- Magneto-resistive measuring principle
- Insertable in the slot from above, does not protrude over the cylinder profile
- Cable clip and inscription labels included in the scope of delivery
- Variant EX2 for use in potentially explosive areas in zones 2 and 22



General technical data	
Design	For T-slot
Mounting position	Any
Based on standard	EN 60947-5-2
Certification	C-Tick
	UL - Listed (OL)
CE marking (see declaration of conformity)	To EU EMC Directive
Note on materials	Cable halogen-free, oil-resistant
	RoHS-compliant, free of copper and PTFE

Input signal/measuring element	
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	[°C] -40 ... +85

Switching output						
Type	PS	NS	PO	ZS	PNS	PSO
Switching output	PNP	NPN	PNP	Non-contacting, 2-wire	PNP, NPN switchable	PNP
Switching element function	N/O contact	N/O contact	N/C contact	N/O contact	N/O contact	N/C contact, N/O contact switchable
Repetition accuracy	[mm]	±0.1				
Switch-on time	[ms]	≤ 1				
Switch-off time	[ms]	≤ 1				
Max. output current	[mA]	100 ¹⁾	100 ¹⁾	100 ¹⁾	80 ¹⁾	100
Max. output current in mounting kits	[mA]	100			80 ¹⁾	100
Max. switching capacity DC	[W]	2.8	2.8	2.8	1.9	2.7
Max. switching capacity DC in mounting kits	[W]	2.8 ²⁾	2.8 ²⁾	2.8 ²⁾	1.5 ²⁾	2.7
Max. switching frequency	[Hz]	180				
Voltage drop ¹⁾	[V]	0 ... 1.5		0 ... 1.5	0 ... 6	0 ... 2.5

1) Variant ...-PS/NS/PO-...-Ex2: max. output current in mounting kits 80 mA, T_a 70 °C
 Variant ...-ZS-...-Ex2: max. output current in mounting kits 50 mA, T_a 70 °C
 2) Variant ...-PS/NS/PO-...-Ex2: max. switching capacity 2.2 W
 Variant ...-ZS-...-Ex2: max. switching capacity 1.2 W

Output, additional data	
Protection against short circuit	Pulsed
Protection against overloading	Yes

Proximity sensors SMT-8M-A, for T-slot

Technical data – Magneto-resistive

Electronic components				
Type		PS, NS, PO, ZS	PNS, PSO	Ex2
Operating voltage range	[V DC]	5 ... 30	7 ... 30	5 ... 30
Rated operating voltage	[V DC]	24		
Reverse polarity protection		For all electrical connections		

Electromechanical components					
Electrical connection		M8	M8D	M12	OE
Electrical connection		Cable with plug, 3-pin			Cable, 3-wire
		M8x1		M12x1	Cable, 2-wire
		-	Rotatable thread		
Connection direction		In-line			
Cable test conditions		Energy chain: 5 million cycles, bending radius 28 mm			
		Torsional strength: > 300,000 cycles, ±270°/0.1 m			
		Resistance to bending: according to Festo standard; test conditions on request			
Cable length	[m]	0.1 ... 30			
Cable characteristics		Energy chain + robot			
Cable sheath materials		TPE-U(PU)			
Cable sheath colour		Grey			

Mechanical components					
Electrical connection		M8, M8D, M12		OE	
Type of mounting		Screw-clamped in slot, insertable from above			
Max. tightening torque	[Nm]	0.6			
Housing		Black			
		PA reinforced			
		High-alloy stainless steel			
		Nickel-plated brass		-	

Proximity sensors SMT-8M-A, for T-slot

Technical data – Magneto-resistive

Display/operation			
	PS, NS, PO, ZS	PNS	PSO
Switching status display	Yellow LED	Yellow LED (for PNP)/white LED (for NPN)	Yellow LED (for N/O contact)/white LED (for N/C contact)
Operating reserve display	Orange LED	–	

Immissions/emissions	
Ambient temperature with flexible cable installation [°C]	–20 ... +85
Protection class	IP65, IP68, IP69K

ATEX	
SMT-8M-A-...-	Ex2
ATEX category for gas	II 3G
Explosion ignition protection type for gas	Ex nA IIC T4 X Gc
ATEX category for dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T120°C X Dc IP65
Explosion-proof temperature rating	–40 °C ≤ Ta ≤ +70 °C
Explosion protection	Zone 2 (ATEX)
	Zone 22 (ATEX)
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Pin allocation to EN 60947-5-2			
M8x1, 2-pin		M12x1, 2-pin	
N/O contact		N/O contact	
	Pin	Wire colour	Allocation
	1	Brown	+
	4	Blue	–

Pin allocation to EN 60947-5-2			
M8x1, 3-pin		M12x1, 3-pin	
N/O contact and N/C contact		N/O contact	
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output

Pin allocation to EN 60947-5-2			
M12x1, 3-pin			
N/C contact			
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	2	White	Output

Proximity sensors SMT-8M-A, for T-slot

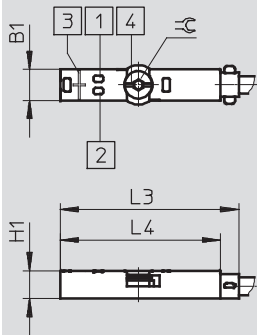
Technical data – Magneto-resistive



Dimensions

Download CAD Data → www.festo.com/us/cad

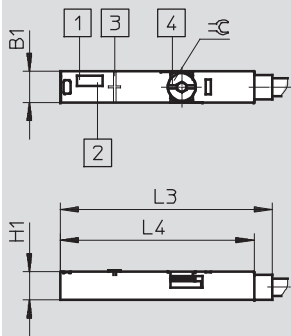
SMT-8M-A-24V-E-...-... (PS, NS, PO, ZS)



Yellow LED for safe switching status.
Yellow and orange LED for unsafe switching status.

- 1 Yellow LED
- 2 Orange LED
- 3 Position of sensor element centre
- 4 Tightening torque of clamping component 0.6 Nm

SMT-8M-A-24V-E-...-... (PNS, PSO)



Switching status display for PNS:
Yellow LED for PS switching output.
White LED for NS switching output.

- 1 Yellow LED
- 2 White LED
- 3 Position of sensor element centre
- 4 Slot for screwdriver

Switching status display for PSO:
Yellow LED for PS switching output.
White LED for PO switching output.

Type	B1	H1	L3	L4	⌀C
SMT-8M-A-...-24V-E- (PS, NS, PO, ZS)	5	4.6	29.3	26.3	1.5
SMT-8M-A-...-24V-E- (PNS, PSO)			34.8	31.8	

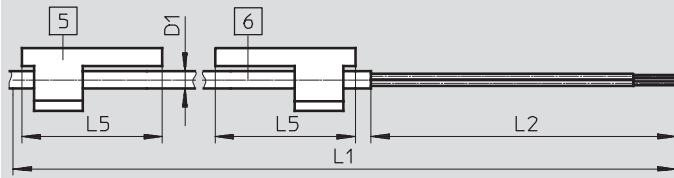
Proximity sensors SMT-8M-A, for T-slot

Technical data – Magneto-resistive

Dimensions

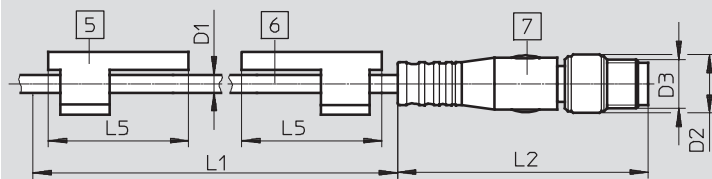
Download CAD Data → www.festo.com/us/cad

SMT-8M-A-...-OE/OE-Ex – Cable



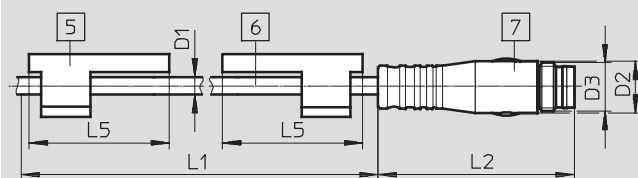
- 5 Inscription label holder drawn turned by 90°
- 6 Connecting cable

SMT-8M-A-...-M8D – Cable with plug M8x1, rotatable thread



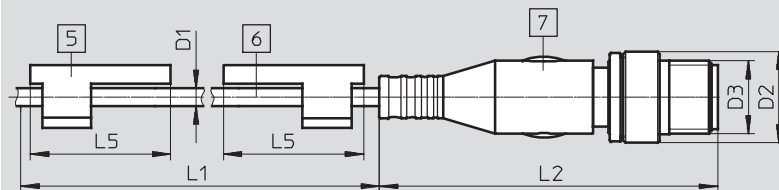
- 5 Inscription label holder drawn turned by 90°
- 6 Connecting cable
- 7 Plug suitable for connecting cable NEBU-M8

SMT-8M-A-...-M8 – Cable with plug M8x1, snap-on flange



- 5 Inscription label holder drawn turned by 90°
- 6 Connecting cable
- 7 Plug suitable for connecting cable NEBU-M8

SMT-8M-A-...-M12 – Cable with plug M12x1, rotatable thread



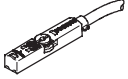
- 5 Inscription label holder drawn turned by 90°
- 6 Connecting cable
- 7 Plug suitable for connecting cable NEBU-M12

Type	D1	D2	D3	L1	L2	L5	⌀
SMT-8M-A-...-OE	2.9	-	-	2,500; 7,500	50	23	1.5
SMT-8M-A-...-OE-Ex		-	-	5,000	50		
SMT-8M-A-...-M8D		9.6	M8x1	300	41.1		
SMT-8M-A-...-M8		8.5	M8x1	300	32.7		
SMT-8M-A-...-M12		15	M12x1	300	55.5		

Proximity sensors SMT-8M-A, for T-slot

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Technical data – Magneto-resistive

Ordering data								
	Switching output	Electrical connection			Cable length	Weight	Part No.	Type
		Cable	Cable with plug, rotatable thread					
				M8x1	M12x1	[m]	[g]	
	N/O contact							
	PNP	–	3-pin	–	0.3	8.9	574334	SMT-8M-A-PS-24V-E-0,3-M8D
	PNP	3-wire	–	–	2.5	29.1	574335	SMT-8M-A-PS-24V-E-2,5-OE
	PNP	3-wire	–	–	5	57.1	574336	SMT-8M-A-PS-24V-E-5,0-OE
	PNP	–	–	3-pin	0.3	15.9	574337	SMT-8M-A-PS-24V-E-0,3-M12
	NPN	3-wire	–	–	2.5	29.1	574338	SMT-8M-A-NS-24V-E-2,5-OE
		–	3-pin	–	0.3	8.9	574339	SMT-8M-A-NS-24V-E-0,3-M8D
	PNP	–	3-pin	–	0.3	8.9	574342	SMT-8M-A-PS-24V-E-0,3-M8D-Ex2
	Non-contacting	2-wire	–	–	5	57.1	574341	SMT-8M-A-ZS-24V-E-5,0-OE-Ex2
	Switchable							
	PNP/NPN	–	3-pin	–	0.3	9	574343	SMT-8M-A-PNS-24V-E-0,3-M8D
	PNP PS/PO	–	3-pin	–	0.3	9	574344	SMT-8M-A-PSO-24V-E-0,3-M8D
	N/C contact							
PNP	3-wire	–	–	7.5	85.1	574340	SMT-8M-A-PO-24V-E-7,5-OE	

Proximity sensors SMT-8M-A, for T-slot

Modular products – Magneto-resistive



Ordering table				
Size	8	Conditions	Code	Enter code
M Module No.	574333			
Function	Proximity sensor for T-slot, electronic		SMT-8M	SMT-8M
			-	-
Series	Short design		A	A
			-	-
Switching output	3-wire PNP N/O contact		PS	
	3-wire NPN N/O contact		NS	
	3-wire PNP N/C contact		PO	
	2-wire PNP N/O contact		ZS	
	PNP/NPN switchable		PNS	
	PNP N/C contact, N/O contact switchable		PSO	
			-	-
Rated operating voltage [V DC]	24		24V	24V
			-	-
Cable characteristics	Energy chain + robot		E	E
			-	-
Cable length [m]	0.1 ... 30		...	
	(0.1 ... 5.0 in 0.1 increments, 5.0 ... 30 in 0.5 increments)			
			-	-
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	
			-	-
O EU certification	II 3GD in accordance with EU Directive 94/9/EC	1	-Ex2	

1 Ex2 Not with switching output PNS, PSO, minimum cable length 0.2 m

Transfer order code

574333 SMT-8M - A - [] - 24V - E - [] - N - [] - []

Proximity sensors SME-8M, for T-slot

Type codes

FESTO

SME-8M

SME - 8M - PO - 24V - K - 7,5 - OE -

Function	
SME	Proximity sensor, magnetic reed

Design	
8M	For T-slot, insertable in slot from above

Switching output, switching element function	
PS	PNP, N/O contact, 3-wire
PO	PNP, N/C contact, 3-wire
NS	NPN, N/O contact, 3-wire
ZS	N/O contact, 2-wire
DS	N/O contact, 3-wire
DO	N/C contact, 3-wire

Rated operating voltage	
24V	24 V DC

Cable properties	
K	Standard + energy chain
E	Energy chain + robot applications

Cable length [m]

Electrical connection	
OE	Open end
M8	Cable with plug M8x1, snap-on flange
M8D	Cable with plug M8x1, rotatable thread
M12	Cable with plug M12x1, rotatable thread

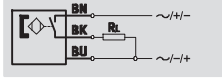
EU certification	
EX2	II 3GD to EU Directive 94/9/EG

Proximity sensors SME-8M, for T-slot

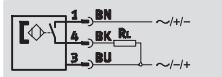
Technical data – Magnetic reed

Function

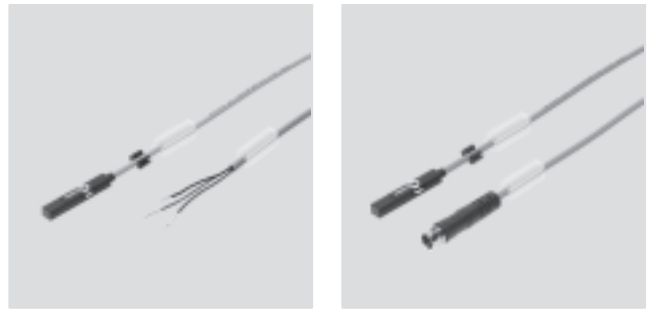
e.g. N/O contact, 3-wire, with cable



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



- Magnetic reed measuring principle
- Insertable in slot from above, does not protrude over the cylinder profile
- Cable clip and inscription labels included in the scope of delivery



General technical data	
Design	For T-slot
Based on standard	EN 60947-5-2
Certification	cULus listed (OL)
	C-Tick
CE mark (see declaration of conformity)	To EU EMC Directive
Note on materials	Free of copper and PTFE
	RoHS-compliant

Input signal/measuring element	
Measuring principle	Magnetic reed
Ambient temperature	[°C] -40 ... +70

Switching output			
Type	SME-8M-DS	SME-8M-ZS	SME-8M-DO
Switching output	Contacting, bipolar		
Switching element function	N/O contact	N/O contact	N/C contact
Max. output current	[mA] 500	80	
Max. output current in mounting kits	[mA] 80	80	
Max. switching capacity DC	[W] 10	2.4	
Max. switching capacity DC in mounting kits	[W] 2.4	2.4	
Max. switching capacity AC	[VA] 10	2.4	
Max. switching capacity AC in mounting kits	[VA] 2.4	2.4	
Voltage drop ¹⁾	[V] ≤1.5	≤4.8	≤3.5

1) Applies to cable length 2.5 m. Max. 0.15 V voltage drop per metre of additional cable length

Output, additional data	
Protection against short circuit	No
Protection against overloading	No

Electronic components	
Operating voltage range DC	[V] 5 ... 30
Operating voltage range AC	[V] 5 ... 30
Reverse polarity protection	No

Proximity sensors SME-8M, for T-slot

Technical data – Magnetic reed

Electromechanical components									
Switching element function	DS/DO				ZS				
Electrical connection	OE	M8D	M8	M12	OE	M8D	M8	M12	
Electrical connection	Cable, 3-wire	Cable with plug, 3-pin			Cable, 2-wire	Cable with plug, 2-pin			
		M8x1	M8x1	M12x1		M8x1	M8x1	M12x1	
		Rotatable thread	Snap-on flange	Rotatable thread		Rotatable thread	Snap-on flange	Rotatable thread	
Connection direction	In-line								
Cable test conditions	K	Energy chain: 5 million cycles, bending radius 75 mm							
		Resistance to bending: to Festo standard; test conditions on request							
	E	Energy chain: 5 million cycles, bending radius 28 mm							
		Torsional strength: $\pm 270^\circ/0.1$ m							
		Resistance to bending: to Festo standard; test conditions on request							
Cable length	[m]	0.2 ... 10							
Cable properties	K	Standard + energy chain							
	E	Energy chain + robot applications							
Cable sheath material	K	TPE-U(PU), oil resistant							
	E	TPE-U(PU), oil resistant, halogen free							

Mechanical components		
Electrical connection	OE	M...
Type of mounting	Screw-clamped in slot, insertable from above	
Housing	PA	PA
	High-alloy stainless steel	High-alloy stainless steel
	–	Nickel-plated brass
	–	TPE-U(PU)

Display/operation	
Switching status display	Yellow LED

Immissions/emissions	
Ambient temperature with flexible cable installation [°C]	–5 ... +70
Protection class	IP65, IP68

Pin allocation to EN 60947-5-2			
M8x1, 2-pin		M12x1, 2-pin	
N/O contact		N/O contact	
	Pin	Wire colour	Allocation
	1	Brown	+
	4	Black	Output
	1	Brown	+
	4	Black	Output

Pin allocation to EN 60947-5-2			
M8x1, 3-pin		M12x1, 3-pin	
N/O contact and N/C contact		N/O contact	
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output
	1	Brown	+
	3	Blue	–
	4	Black	Output

Proximity sensors SME-8M, for T-slot

Technical data – Magnetic reed

Pin allocation to EN 60947-5-2			
M12x1, 3-pin			
N/C contact			
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	-
	2	White	Output

Dimensions Download CAD Data → www.festo.com/us/cad

SMT-8M-...-OE – Cable

- 1 Yellow LED
- 2 Centre of the sensor element
- 3 Clamping component, tightening torque 0.6 Nm
- 4 Inscription label holder
- 5 Connecting cable

L1 Cable length

SMT-8M-...-M8D – Cable with plug M8x1, rotatable thread

- 1 Yellow LED
- 2 Centre of the sensor element
- 3 Clamping component, tightening torque 0.6 Nm
- 4 Inscription label holder
- 5 Connecting cable
- 6 Plug to fit connecting cable NEBU-M8

L1 Cable length

SMT-8M-...-M8 – Cable with plug M8x1, snap-on flange

- 1 Yellow LED
- 2 Centre of the sensor element
- 3 Clamping component, tightening torque 0.6 Nm
- 4 Inscription label holder
- 5 Connecting cable
- 6 Plug to fit connecting cable NEBU-M8

L1 Cable length

Type	B1	D1	D2	D3	H1	L2	L3	L4	L5	⌀
SME-8M-...-OE	5	2.9	-	-	4.6	50	34.8	31.8	23	1.5
SME-8M-...-M8D			9.6	M8x1		41				
SME-8M-...-M8			8.8	M8x1		35				

Proximity sensors SME-8M, for T-slot

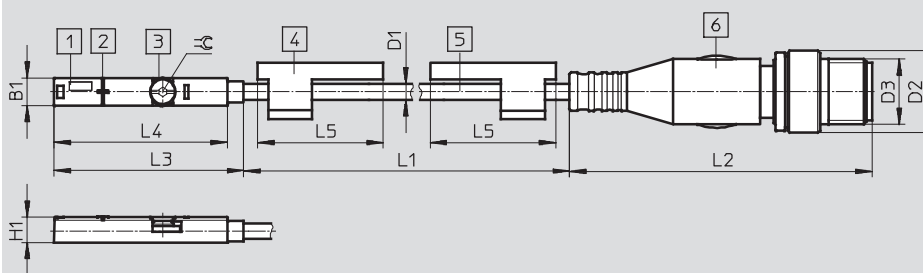
Technical data – Magnetic reed



Dimensions

Download CAD Data → www.festo.com/us/cad

SME-8M-...-M12 – Cable with plug M12x1, rotatable thread



- 1 Yellow LED
- 2 Centre of the sensor element
- 3 Clamping component, tightening torque 0.6 Nm
- 4 Inscription label holder
- 5 Connecting cable
- 6 Plug to fit connecting cable NEBU-M12

L1 Cable length

Type	B1	D1	D2	D3	H1	L2	L3	L4	L5	⌀
SME-8M-...-M12	5	2.9	15	M12x1	4.6	55.5	34.8	31.8	23	1.5

Ordering data

	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread, M8x1			
	N/O contact					
	Contacting, bipolar	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	543861	SME-8M-DS-24V-K-0,3-M8D
2-wire	-	2.5	543872	SME-8M-ZS-24V-K-2,5-OE		
N/C contact						
Contacting, bipolar	3-wire	-	7.5	546799	SME-8M-DO-24V-K-7,5-OE	

Proximity sensors SME-8M, for T-slot

Modular products – Magnetic reed

M Mandatory data						
Module No.	Function	Switching output	Rated operating voltage	Cable properties	Cable length	Connection technology
543892	SME-8M	DS ZS DO	24V	K E	0.2 ... 10	OE M8D M8 M12
Ordering example						
543892	SME-8M	ZS	24V	K	0.8	OE

Ordering table							
Size	8	Conditions		Code		Enter code	
M Module No.	543892						
Function	Proximity sensor for T-slot, contacting			SME-8M		SME-8M	
				-		-	
Switching output	3-wire N/O contact			DS			
	2-wire N/O contact			ZS			
	3-wire N/C contact			DO			
				-		-	
Rated operating voltage [V DC]	24			24V		24V	
				-		-	
Cable properties	Standard + energy chain			K			
	Energy chain + robot applications			E			
				-		-	
Cable length [m]	0.2 ... 10			...			
	(0.2 ... 5.0 m in 0.1 m steps, 5.0 ... 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 - [] - [] - []

Proximity sensors CRSMT-8/SMT-8-SL/SME-8, for T-slot

Type codes

CRSMT-8

CRSMT – 8 – PS – K2,5 – LED – 24

Function

CRSMT	Proximity sensor, magneto-resistive, suitable for the food industry, resistant to acids and cooling lubricants
-------	--

Design

8	For T-slot, insertable in slot lengthwise
---	---

Switching output, switching element function

PS	PNP, N/O contact, 3-wire
----	--------------------------

Electrical connection, cable length

K2,5	Cable, 2.5 m
K5	Cable, 5.0 m

Switching status display

LED	Yellow LED
-----	------------

Rated operating voltage

24	24 V DC
----	---------

SMT/SME-8-SL

SMT – 8 – SL – PS – LED – 24

Function

SMT	Proximity sensor, magneto-resistive
SME	Proximity sensor, magnetic reed

Design

8	For T-slot, insertable in slot lengthwise
---	---

Electrical connection

SL	Plug
----	------

Switching output, switching element function

PS	PNP, N/O contact, 3-wire
----	--------------------------

Switching status display

LED	Yellow LED
-----	------------

Rated operating voltage

24	24 V DC
----	---------

Proximity sensors CRSMT-8/SMT-8-SL/SME-8, for T-slot

Type codes

SMT/SME-8	
SMT – 8 – PS – K – LED – 24 – – B	
Function	
SMT	Proximity sensor, magneto-resistive
SME	Proximity sensor, magnetic reed
Design	
8	For T-slot, insertable in slot lengthwise
Switching output, switching element function	
PS	PNP, N/O contact, 3-wire
NS	NPN, N/O contact, 3-wire
ZS	N/O contact, 2-wire
0	N/C contact, 3-wire
Electrical connection, cable length	
K	Cable, 2.5 m or 7.5 m
K2,5	Cable, 2.5 m
K5	Cable, 5.0 m
K-7,5	Cable, 7.5 m
KL	Cable, 2.5 m
S	Plug M8x1 with cable, 0.3 m
Switching status display	
LED	Yellow LED
Rated operating voltage	
24	24 V DC
230	230 V AC
Variant	
S6	Heat resistant
Generation	
B	B series

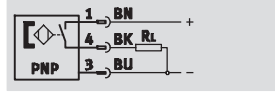
Proximity sensors CRSMT-8/SMT-8-SL, for T-slot

Technical data – Magneto-resistive



Function

e.g. PNP, N/O contact, with plug



- Magneto-resistive measuring principle
- Insertable in slot lengthwise
- Corrosion-resistant designs

SMT-8-SL

- Sturdy thanks to long guides
- Plug directly on sensor



CRSMT



SMT-8-SL

General technical data		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Design	For T-slot	For T-slot
Conforms to	EN 60947-5-2	–
Based on standard	–	EN 60947-5-2
Certification	C-Tick	C-Tick
	–	c UL us - Listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive	To EU EMC Directive
Note on materials	Free of copper and PTFE	Free of copper and PTFE
	–	RoHS-compliant

Input signal/measuring element		
	CRSMT	SMT-8-SL
Measuring principle	Magneto-resistive	Magneto-resistive
Ambient temperature [°C]	–20 ... +60	–20 ... +70

Switching output		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Switching element function	N/O contact	N/O contact
Reproducibility of switching value [mm]	±0.1	–
Switch-on time [ms]	≤ 0.2	≤ 1
Switch-off time [ms]	≤ 0.5	3 ... 5
Max. switching frequency [Hz]	1 000	140
Max. output current [mA]	100	100
Max. switching capacity DC [W]	3	3
Voltage drop [V]	≤ 1.8	≤ 2
Residual current [µmA]	≤ 100	≤ 1.5

Output, additional data		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Protection against short circuit	Yes	Yes
Protection against overloading	–	Yes

Proximity sensors CRSMT-8/SMT-8-SL for T-slot

Technical data – Magneto-resistive

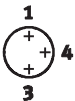
Electronic components		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Rated operating voltage [V DC]	–	24
Operating voltage range [V DC]	10 ... 30	10 ... 30
Reverse polarity protection	For all electrical connections	

Electromechanical components		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Electrical connection	Cable, 3-wire	Plug M8x1, 3-pin
Connection direction	–	In-line
Cable length [m]	2.5	–
	5	
Cable sheath material	TPE-O	–

Mechanical components		
Type	CRSMT	SMT-8-SL
Switching output	PNP	PNP
Electrical connection	Cable, 3-wire	Plug M8x1, 3-pin
Type of mounting	Clamped in T-slot	Screw-clamped
	–	Insertable in slot lengthwise
Housing material	High-alloy stainless steel	Polyamide
	Polypropylene	–

Display/operation	
Switching status display	Yellow LED

Immissions/emissions		
Type	CRSMT	SMT-8-SL
Ambient temperature with flexible cable installation [°C]	–5 ... +60	–
Protection class	IP65	IP65
	IP68	IP68
	IP69K	–
Insulation voltage [V]	500	–
Degree of contamination	3	–
Corrosion resistance class CRC	4	3

Pin allocation to EN 60947-5-2			
PS/NS			
Plug, 3-pin			
M8x1	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output

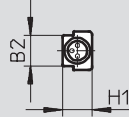
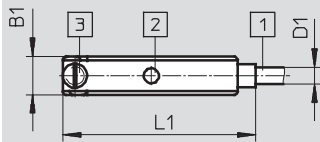
Proximity sensors CRSMT-8/SMT-8-SL, for T-slot

Technical data – Magneto-resistive

Dimensions

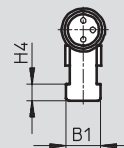
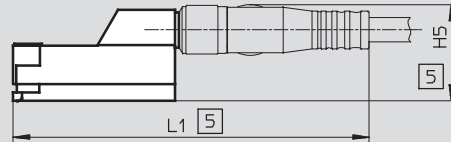
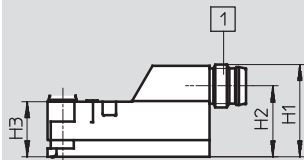
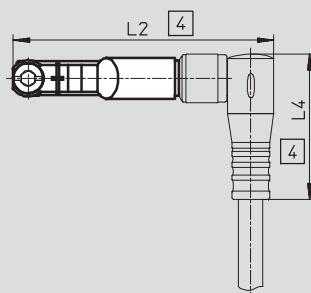
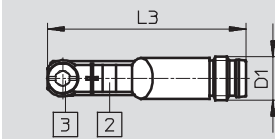
Download CAD Data → www.festo.com/us/cad

CRSMT



- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

SMT-8-SL


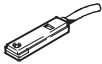


- 1 Plug to fit connecting cable NEBU-M8
- 2 Yellow LED
- 3 Clamping component
- 4 Fitting space for connecting cable NEBU-M8W3
- 5 Fitting space for connecting cable NEBU-M8G3

Type	B1	B2	D1	D2	D3	H1	H2	H3	H4	H5	L1	L2	L3	L4
CRSMT	6.3	5	2.9	–	–	4.9	–	–	–	–	32.4	–	–	–
SMT-8-SL	6.7	–	M8x1	–	–	17.1	13.1	10.2	3.1	17.6	66	48.4	36.6	26.9

Proximity sensors CRSMT-8/SMT-8-SL, for T-slot

Technical data – Magneto-resistive

Ordering data						
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Plug M8x1			
N/O contact, basic version						
	PNP	–	3-pin	–	562019	SMT-8-SL-PS-LED-24-B
N/O contact, corrosion resistant						
	PNP	3-wire	–	2.5	525563	CRSMT-8-PS-K-LED-24
				5.0	525564	CRSMT-8-PS-K5-LED-24

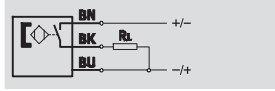
Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed

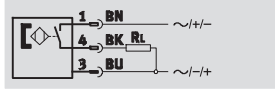


Function

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



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



- Magnetic reed measuring principle
- Insertable in slot lengthwise

SME-8-SL

- Sturdy thanks to long guides
- Plug directly on sensor



SME-8



SME-8-SL

General technical data					
Type	SME-8-K	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Design	For T-slot				
Conforms to	EN 60947-5-2				
Certification	C-Tick				
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾				
Note on materials	Free of copper and PTFE				
	RoHS-compliant	–		RoHS-compliant	

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Input signal/measuring element							
Type	SME-8-K	SME-8-K5	SME-8-K-7,5	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Measuring principle	Magnetic reed						
Ambient temperature [°C]	–40 ... +60	–40 ... +70	–40 ... +70	–40 ... +70	–40 ... +60	–40 ... +60	–40 ... +60

Switching output					
Type	SME-8-K	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Switching output	Contacting, bipolar				
Switching element function	N/O contact	N/O contact	N/O contact	N/C contact	N/O contact
Reproducibility of switching value [mm]	±0.1	±0.1	±0.1	±0.1	±0.1
Switch-on time [ms]	≤ 0.5	≤ 0.5	≤ 0.5	≤ 2	≤ 0.6
Switch-off time [ms]	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.2	≤ 0.05
Max. switching frequency [Hz]	800	–	800	–	500
Max. output current [mA]	500	500	80	50	500
Max. switching capacity AC [VA]	10	10	–	1.5	10
Max. switching capacity DC [W]	10	10	2.16	1.5	10
Voltage drop [V]	0	–	≤ 3.5	≤ 2.5	0

Output, additional data	
Protection against short circuit	No
Protection against overloading	No

Electronic components					
Type	SME-8-K	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Operating voltage range [V AC]	12 ... 30	12 ... 30	–	12 ... 30	10 ... 30
Operating voltage range [V DC]	12 ... 30	12 ... 30	12 ... 27	12 ... 30	10 ... 30
Reverse polarity protection	No				

Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed

Electromechanical components							
Type	SME-8-K	SME-8-K5	SME-8-K-7,5	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Electrical connection	Cable, 3-wire			Cable with plug M8x1, 3-pin	Cable, 2-wire	Cable, 3-wire	Plug M8x1, 3-pin
Connection direction	In-line						
Cable length [m]	2.5	5	7.5	0.3	2.5	7.5	–
Cable sheath material	TPE-U (PUR)						

Mechanical components							
Type	SME-8-K	SME-8-K5	SME-8-K-7,5	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Type of mounting	Clamped in T-slot Insertable in slot lengthwise						
Housing material	Epoxy resin Polycarbonate Polybutylene terephthalate High-alloy stainless steel						

Display/operation	
Switching status display	Yellow LED

Immissions/emissions							
Type	SME-8-K	SME-8-K5	SME-8-K-7,5	SME-8-S	SME-8-ZS	SME-8-O	SME-8-SL
Ambient temperature with flexible cable installation [°C]	–5 ... +60	–5 ... +70	–5 ... +70	–5 ... +70	–5 ... +60	–5 ... +60	–
Protection class	IP65			–	IP65	–	IP65
	IP67			IP67	IP67	IP67	IP67
Insulation voltage [V]	50						
Surge capacity [kV]	3	3	3	3	3	3	3
Degree of contamination	3						

Pin allocation to EN 60947-5-2			
S			
Plug, 3-pin			
M8x1	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output

Proximity sensors SME-8, for T-slot

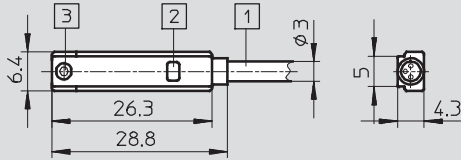
Technical data – Magnetic reed



Dimensions

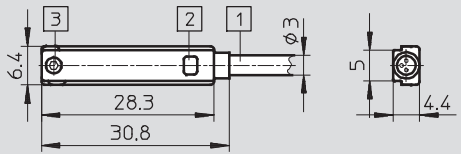
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N/O contact, cable



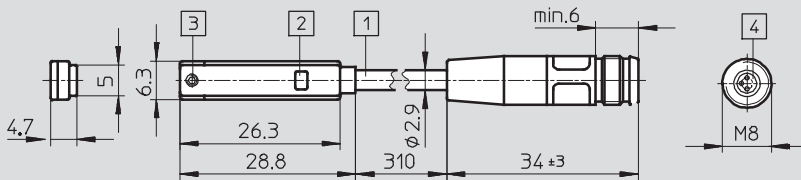
- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

N/C contact, cable



- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

Plug M8x1



- 1 Connecting cable
- 2 Plug to fit connecting cable NEBU-M8
- 3 Clamping component
- 4 Yellow LED

Ordering data

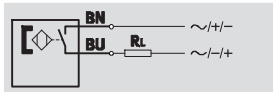
	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug M8x1	Plug M8x1			
N/O contact, basic version							
	Contacting, bipolar	3-wire	-	-	2.5	150855	SME-8-K-LED-24
			-	-	5.0	175404	SME-8-K5-LED-24
		-	3-pin	-	0.3	150857	SME-8-S-LED-24
		2-wire	-	-	2.5	171169	SME-8-ZS-KL-LED-24
	Contacting, bipolar	-	-	3-pin	-	526622	SME-8-SL-LED-24
N/C contact							
	Contacting, bipolar	3-wire	-	-	7.5	160251	SME-8-O-K-LED-24

Proximity sensors SME-8, for T-slot

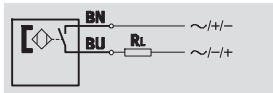
Technical data – Magnetic reed

Function

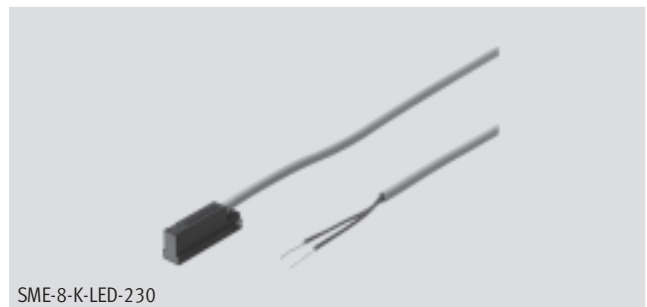
e.g. N/O contact, with cable, 2-wire,
0 ... 30 V AC/DC



e.g. N/O contact, with cable, 2-wire,
3 ... 230 V AC/DC



- Magnetic reed measuring principle
- Insertable in slot lengthwise
- Heat-resistant design
- Variants with operating voltage range up to 230 V DC/AC



General technical data		
	SME-8-...-S6	SME-8-...-230
Design	For T-slot	
Conforms to	EN 60947-5-2	
CE mark (see declaration of conformity)	–	To EU EMC Directive ¹⁾
	–	To EU Low Voltage Directive
Note on materials	Free of copper and PTFE	
	RoHS-compliant	

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Input signal/measuring element		
	SME-8-...-S6	SME-8-...-230
Measuring principle	Magnetic reed	
Ambient temperature	[°C] –40 ... +120	–30 ... +60

Switching output		
	SME-8-...-S6	SME-8-...-230
Switching output	Contacting, bipolar	Contacting, bipolar, without LED function
Switching element function	N/O contact	
Reproducibility of switching value	[mm] ±0.1	±0.1
Switch-on time	[ms] ≤ 0.5	2
Switch-off time	[ms] ≤ 0.03	0.03
Max. switching frequency	[Hz] 800	500
Max. output current	[mA] 500	120
Max. switching capacity AC	[VA] 10	
Max. switching capacity DC	[W] 10	
Voltage drop	[V] ≤ 0	≤ 3.9
Residual current	[mA] –	0

Output, additional data		
	SME-8-...-S6	SME-8-...-230
Protection against short circuit	No	
Protection against overloading	No	

Electronic components		
	SME-8-...-S6	SME-8-...-230
Operating voltage range	[V AC] 0 ... 30	3 ... 230
Operating voltage range	[V DC] 0 ... 30	3 ... 230
Reverse polarity protection	No	

Proximity sensors SME-8, for T-slot

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Technical data – Magnetic reed

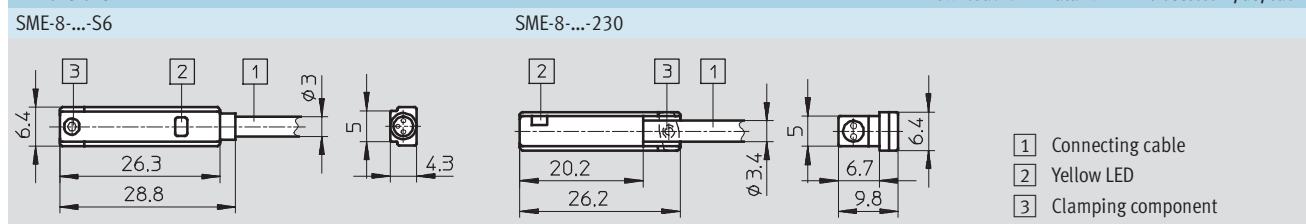
Electromechanical components		
	SME-8-...-S6	SME-8-...-230
Electrical connection	Cable, 2-wire	
Connection direction	In-line	
Cable length [m]	2.5	2.5
	–	–
Cable sheath material	TPE-S	TPE-U (PUR)

Mechanical components		
	SME-8-...-S6	SME-8-...-230
Type of mounting	Clamped in T-slot Insertable in slot lengthwise	
Housing material	Epoxy resin	Epoxy resin
	Polycarbonate	Polystyrene
	Polyethylene terephthalate	Polyethylene terephthalate
	High-alloy stainless steel	High-alloy stainless steel

Display/operation		
	SME-8-...-S6	SME-8-...-230
Switching status display	–	Yellow LED

Immissions/emissions		
	SME-8-...-S6	SME-8-...-230
Ambient temperature with flexible cable installation [°C]	–5 ... +120	–5 ... +60
Protection class	– IP67	– IP67
Insulation voltage [V]	50	–
Surge capacity [kV]	0.8	4
Degree of contamination	3	3

Dimensions Download CAD Data → www.festo.com/us/cad



Ordering data						
	Switching output	Electrical connection	Connection direction	Cable length [m]	Part No.	Type
		Cable				
N/O contact, heat resistant						
	Contacting, bipolar	2-wire	In-line	2.5	161756	SME-8-K-24-S6
N/O contact, operating voltage range up to 230 V AC/DC						
	Contacting, bipolar	2-wire	In-line	2.5	152820	SME-8-K-LED-230

Proximity sensors SMT-8G, for T-slot

Type codes

SMT-8G		SMT	8G	PS	24V	E	2,5Q	OE
Function								
SMT	Proximity sensor, magneto-resistive							
Design								
8G	For T-slot, insertable in slot lengthwise							
Switching output, switching element function								
PS	PNP, N/O contact, 3-wire							
Rated operating voltage								
24V	24 V DC							
Cable properties								
E	Energy chain + robot applications							
Cable length [m], connection direction								
2,5Q	Cable, 2.5 m, lateral ¹⁾							
0,3Q	Cable with plug, 0.3 m, lateral ²⁾							
Electrical connection								
OE	Open end							
M8D	Cable with plug M8x1, rotatable thread							

1) Only with electrical connection OE
 2) Not with electrical connection OE

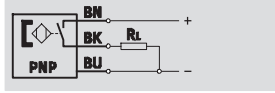
Proximity sensors SMT-8G, for T-slot

Technical data – Magneto-resistive



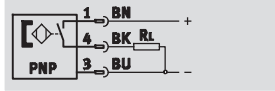
Function

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



- Magneto-resistive measuring principle
- Insertable in slot lengthwise
- Design ideally matched to gripper sensing

PNP, N/O contact, with plug



General technical data	
Design	For T-slot
Based on standard	EN 60947-5-2
Certification	c UL us - Listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive
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 output	PNP
Switching element function	N/O contact
Max. output current [mA]	80
Max. switching capacity DC [W]	2.4

Output, additional data	
Protection against short circuit	Pulsed
Protection against overloading	Yes

Electronic components	
Operating voltage range [V DC]	10 ... 30
Reverse polarity protection	For all electrical connections

Electromechanical components		
Type	SMT-8G-...-OE	SMT-8G-...-M8D
Electrical connection	Cable, 3-wire	Cable with plug M8x1, 3-pin, rotatable thread
Connection direction	Lateral	
Cable test conditions	Energy chain: 5 million cycles, bending radius 28 mm Torsional strength: > 300,000 cycles, ±270°/0.1 m Resistance to bending: to Festo standard; test conditions on request	
Cable length [m]	2.5	0.3
Cable properties	Energy chain + robot applications	
Cable sheath material	Thermoplastic polyurethane elastomer	

Mechanical components	
Type of mounting	Clamped in T-slot Insertable in slot lengthwise
Housing material	Reinforced polyamide

Proximity sensors SMT-8G, for T-slot

Technical data – Magneto-resistive



Display/operation	
Switching status display	Yellow LED

Immissions/emissions		
Ambient temperature with flexible cable installation	[°C]	-5 ... +70
Protection class		IP65
		IP68

Pin allocation to EN 60947-5-2			
PS			
Plug, 3-pin			
M8x1	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	-
	4	Black	Output

Dimensions Download CAD Data → www.festo.com/us/cad

1 LED 3 Holder for inscription label 4 Connecting cable
 2 SMT-8G 5 Plug M8x1

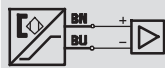
	D1	D2	D3	B1	B2	B3	B4	H1	H2	L1	L2	L3	L4	L5	L6	L7	⊕
SMT-8G-...-OE	2.9	-	-	5.4	5	6.3	5	10	5	2500 +70	25	-	14.4	23	50	2.5	1.5
SMT-8G-...-M8D		M8x1	9.6							41.1							

Ordering data						
N/O contact	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread, M8x1			
	PNP	3-wire	-	2.5	547859	SMT-8G-PS-24V-E-2,5Q-OE
		-	3-pin	0.3	547860	SMT-8G-PS-24V-E-0,3Q-M8D

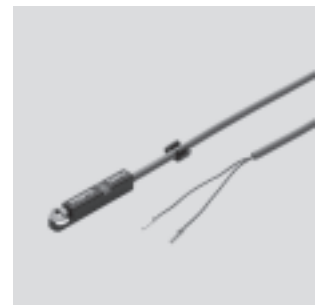
Proximity sensors SMT-8F-I, to EU Explosion Protection Directive (ATEX)

Technical data

Function
NAMUR, with cable



- EU conformity in accordance with EU EMC Directive, to EU Explosion Protection Directive (ATEX)
- Magneto-inductive measuring principle
- Insertable in the slot from above
- Cable clip included in the scope of delivery



Technical data	
Switching element function	NAMUR
Switching output	NAMUR
Design	For T-slot
Type of mounting	Clamped in T-slot
Reproducibility of switching value ¹⁾	[mm] ±0.1
Electrical connection	Cable, 2-wire
Mounting position	Any
Cable length	[m] 5
Rated operating voltage	[V DC] 8.2
Max. output current in NAMUR operation	[mA] 0 ... 4.5
Residual current	[mA] 0 ... 0.7
Switch-on time	[ms] 0 ... 0.5
Switch-off time	[ms] 0 ... 0.5
Protection against short circuit	For all electrical connections
Protection against incorrect polarity	
Conforms to standard	EN 60947-5-6
Certificate issuing authority	KEMA 04 ATEX 1114 X
Switching status display	Yellow LED
Product weight	[g] 70

1) Only applicable to drives secured against rotation

Operating and environmental conditions		
Cable installation	Fixed	Flexible
Ambient temperature	[°C] -25 ... +70	-5 ... +70
Protection class	IP65, IP67	
Certification	C-Tick	

Note

When used in hazardous areas, the proximity sensor SMT-8F-I must always be operated on an isolated switch amplifier according to DIN EN 60 947-5-6.

Note

Operating instructions, declarations and statements of conformity
→ www.festo.com

Proximity sensors SMT-8F-I, to EU Explosion Protection Directive (ATEX)

Technical data

ATEX	
ATEX category for gas	II 1G
Explosion ignition protection type for gas	Ex ia IIC T4 ... T6
ATEX category for dust	II 1D
Explosion ignition protection type for dust	Ex iaD 20 IP67 T95°C
Explosion-proof temperature [°C]	-10 °C ≤ Ta ≤ +70 °C
Explosion protection certification outside the EU	EPL Da (RU)
	EPL Db (RU)
	EPL Dc (RU)
	EPL Ga (RU)
	EPL Gb (RU)
	EPL Gc (RU)
CE marking (see declaration of conformity)	To EU EMC Directive
	To EU Explosion Protection Directive (ATEX)

Materials	
Housing	PA
Cable sheath	PVC
Note on materials	Free of copper and PTFE

Dimensions

Download CAD Data → www.festo.com/us/cad

- 1 Cable
- 2 Switching point
- 3 Clamping component, max. tightening torque 0.6 Nm
- 4 Yellow LED for switching status

Type	B1	D1 Ø	H1	L1	L2	☞
SMT-8F-I-8 ...	5	2.9	6	31.8	6.2	1.5

Ordering data					
	Switching output	Electrical connection	Cable length [m]	Part No.	Type
	NAMUR	Cable, 2-wire	5.0	536956	SMT-8F-I-8,2V-K5,0-0E-Ex

Proximity sensors SME-8-FM, for T-slot

Type codes

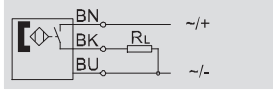
SME-8-FM		SME	8	FM	DS	24V	K	1,0	OE
Function									
SME	Proximity sensor, magnetic reed								
Design									
8	For T-slot								
Sensor design									
FM	Screw-clamped in slot, insertable from above								
Switching output									
DS	3-wire N/O contact								
ZS	2-wire N/O contact								
Nominal operating voltage									
24V	24 V AC/DC								
Cable properties									
K	Standard								
Cable length [m]									
1,0	1								
Electrical connection									
OE	Open end								

Proximity sensors SME-8-FM, for T-slot

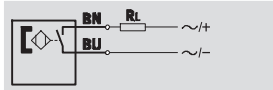
Technical data – Magnetic reed

Function

N/O contact, with cable, 3-wire



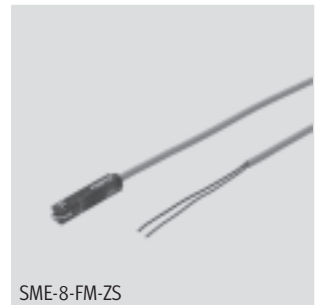
N/O contact, with cable, 2-wire



- Magnetic reed measuring principle
- Insertable in slot from above



SME-8-FM-DS



SME-8-FM-ZS

General technical data	
Design	For T-slot
Based on standard	EN-60947-5-2
Certification	C-Tick
CE mark (see declaration of conformity)	To EU EMC Directive
Note on materials	Free of copper and PTFE RoHS-compliant

Input signal/measuring element	
Measuring principle	Magnetic reed
Ambient temperature [°C]	-10 ... +60

Switching output		
Type	SME-8-FM-DS	SME-8-FM-ZS
Switching output	Contacting, bipolar	
Switching element function	N/O contact	
Max. output current [mA]	100	
Max. switching capacity AC [VA]	3	
Max. switching capacity DC [W]	3	

Output, additional data	
Protection against short circuit	No
Protection against overloading	No

Electronic components		
Operating voltage range [V AC]	10 ... 30	
Operating voltage range [V DC]	10 ... 30	

Electromechanical components		
Type	SME-8-FM-DS	SME-8-FM-ZS
Electrical connection	Cable, 3-wire	Cable, 2-wire
Connection direction	In-line	
Cable test conditions	Test conditions on request	
Cable length [m]	1	
Cable properties	Standard	
Cable sheath material	Polyvinyl chloride	

Mechanical components		
Type	SME-8-FM-DS	SME-8-FM-ZS
Type of mounting	Screw-clamped Insertable in slot from above	
Housing material	Polyamide	

Proximity sensors SME-8-FM, for T-slot

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Technical data – Magnetic reed

Display/operation	
Switching status display	Yellow LED

Immissions/emissions	
Ambient temperature with flexible cable installation [°C]	-5 ... +60
Protection class	IP67

Dimensions Download CAD Data → www.festo.com/us/cad

1 Connecting cable
2 Yellow LED
3 Clamping component

	B1	B2	D1	H1	L1	L2
SME-8-FM	5.1	5.8	2.9	6	27.4	1 000

Ordering data						
	Switching output	Electrical connection	Cable length [m]	Part No.	Type	
		Cable				
	Contacting, bipolar	3-wire	1	562515	SME-8-FM-DS-24V-K-1,0-OE	
		2-wire	1	562516	SME-8-FM-ZS-24V-K-1,0-OE	

Proximity sensors SMTO/SMTSO/SMEO-8E, for T-slot

Type codes

SMTO/SMTSO/SMEO-8E	
SMTO – 8E – PS – M12 – LED – 24 –	
Function	
SMTO	Proximity sensor, magneto-resistive
SMTSO	Proximity sensor, magneto-inductive, welding field immune
SMEO	Proximity sensor, magnetic reed
Design	
8E	For T-slot, mounting via accessories
Switching output, switching element function	
PS	PNP, N/O contact, 3-wire
NS	NPN, N/O contact, 3-wire
Electrical connection, cable length	
K	Cable, 2.5 m or 7.5 m
S	Plug M8x1
M12	Plug M12x1
Switching status display	
LED	Yellow LED
Rated operating voltage	
24	24 V DC
230	230 V AC
Variant	
S6	Heat resistant

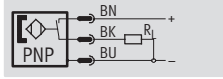
Proximity sensors SMTO-8E/SMTSO-8E, for T-slot

Technical data – Magneto-resistive

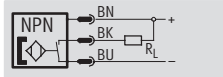


Function

PNP, N/O contact, with plug



NPN, N/O contact, with plug



- Magneto-resistive measuring principle
- Welding field immune designs



General technical data		
Type	SMTO-8E	SMTSO-8E, welding field immune
Design	For T-slot	
Certification	C-Tick	
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾	
Note on materials	Free of copper and PTFE	
	RoHS-compliant	–

- 1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Input signal/measuring element		
Type	SMTO-8E	SMTSO-8E, welding field immune
Measuring principle	Magneto-resistive	Magneto-inductive
Ambient temperature [°C]	–20 ... +60	–25 ... +70

Switching output				
Type	SMTO-8E		SMTSO-8E, welding field immune	
Switching output	PNP	NPN	PNP	NPN
Switching element function	N/O contact			
Reproducibility of switching value [mm]	±0.1			
Switch-on time [ms]	0 ... 0.5		0 ... 38	
Switch-off time [ms]	10 ... 25		0 ... 20	
Max. output current [mA]	100		200	
Max. switching capacity DC [W]	3		6	
Voltage drop [V]	0 ... 1.8		0 ... 1.8	0 ... 3
Residual current [µmA]	0.01			

Output, additional data				
Type	SMTO-8E		SMTSO-8E, welding field immune	
Switching output	PNP	NPN	PNP	NPN
Protection against short circuit	Pulsed		Yes	Pulsed
Protection against overloading	Yes			

Electronic components		
Operating voltage range DC [V]	10 ... 30	
Reverse polarity protection	For all electrical connections	

Proximity sensors SMTO-8E/SMTSO-8E, for T-slot


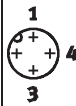
Technical data – Magneto-resistive

Electromechanical components			
Type	SMTO-8E-...-S	SMTO-8E-...-M12	SMTSO-8E-...-M12, welding field immune
Electrical connection	Plug M8x1, 3-pin	Plug M12x1, 3-pin	Plug M12x1, 3-pin
Connection direction	Lateral		
Max. tightening torque for plug [Nm]	0.3	0.5	0.5

Mechanical components			
Type	SMTO-8E-...-S	SMTO-8E-...-M12	SMTSO-8E-...-M12, welding field immune
Type of mounting	Clamped in T-slot Insertable in slot from above Via accessories		
Tightening torque [Nm]	1	0.5	0.5
Housing materials	TPE-U(PU)	TPE-U(PU)	TPE-U(PU)
	Nickel-plated brass	High-alloy stainless steel	High-alloy stainless steel
	–	Wrought aluminium alloy	Wrought aluminium alloy
		–	PA

Display/operation	
Switching status display	Yellow LED

Immissions/emissions			
Type	SMTO-8E-...-S	SMTO-8E-...-M12	SMTSO-8E-...-M12, welding field immune
Protection class	IP65 IP67		
Resistance to interference from magnetic fields	–	–	Alternating magnetic field 45 ... 65 Hz

Pin allocation to EN 60947-5-2							
M8x1, 3-pin				M12x1, 3-pin			
N/O contact				N/O contact			
	Pin	Wire colour	Allocation		Pin	Wire colour	Allocation
	1	Brown	+		1	Brown	+
	3	Blue	–		3	Blue	–
	4	Black	Output		4	Black	Output

Proximity sensors SMT0-8E/SMTS0-8E, for T-slot

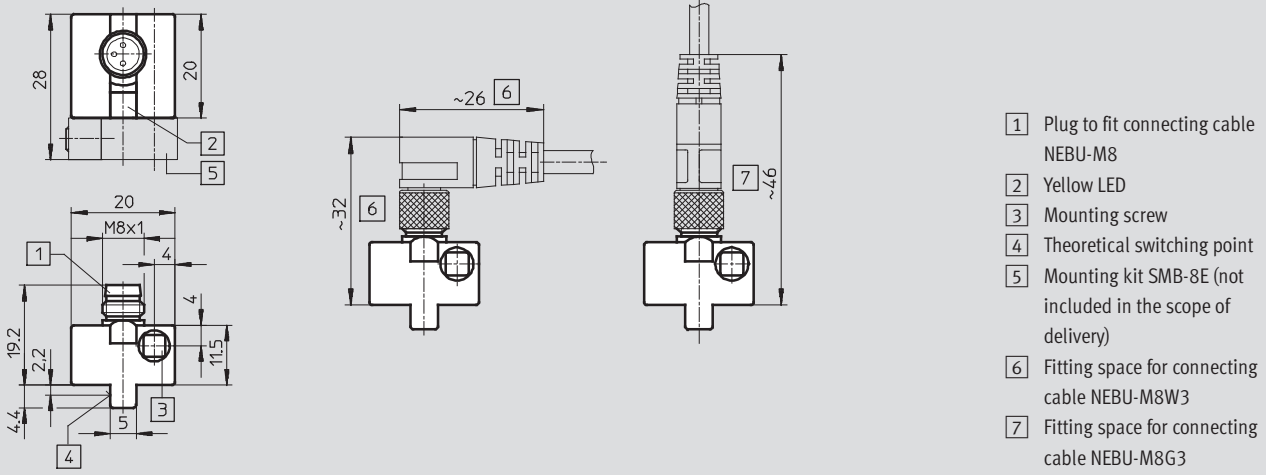
Technical data – Magneto-resistive

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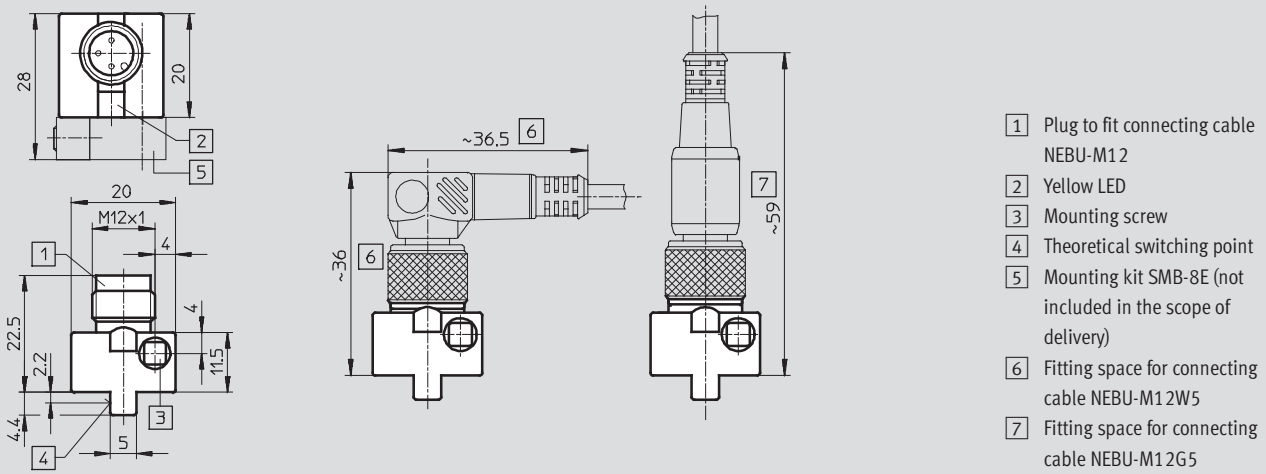
Dimensions

Download CAD Data → www.festo.com/us/cad

SMT0-8E-...-S-LED-24 – Plug M8x1



SMT0-8E-...-M12-LED-24 – Plug M12x1



Proximity sensors SMT0-8E/SMTSO-8E, for T-slot

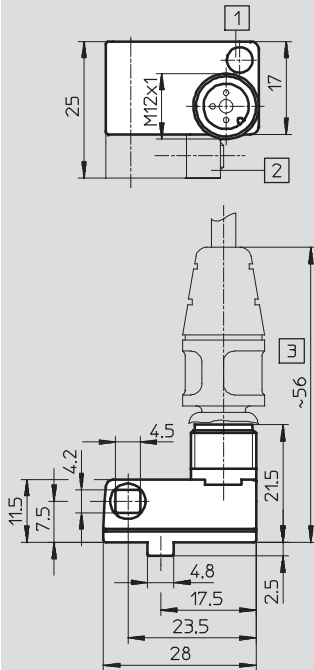
Technical data – Magneto-resistive



Dimensions

Download CAD Data → www.festo.com/us/cad

SMTSO-8E-...-M12-LED-24 – Plug M12x1



- 1 Yellow LED
- 2 Mounting kit SMB-8E (not included in the scope of delivery)
- 3 Fitting space for connecting cable NEBU-M12G5

Ordering data

	Switching output	Electrical connection		Part No.	Type
		Plug M8x1	Plug M12x1		
N/O contact, basic version					
	PNP	3-pin	–	171178	SMT0-8E-PS-S-LED-24
		–	3-pin	171179	SMT0-8E-PS-M12-LED-24
	NPN	3-pin	–	171166	SMT0-8E-NS-S-LED-24
		–	3-pin	171176	SMT0-8E-NS-M12-LED-24
N/O contact, welding field immune					
	PNP	–	3-pin	191986	SMTSO-8E-PS-M12-LED-24
	NPN	–	3-pin	175825	SMTSO-8E-NS-M12-LED-24

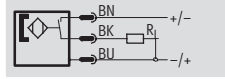
Proximity sensors SMEO-8E, for T-slot

Technical data – Magnetic reed



Function

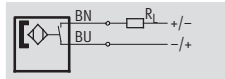
E.g. N/O contact, 3-wire, with plug



- Magnetic reed measuring principle
- Heat-resistant variant



E.g. N/O contact, 2-wire, with cable



General technical data			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
Design	For T-slot	For T-slot	For T-slot
Conforms to	EN 60947-5-2	–	EN 60947-5-2
Certification	C-Tick	–	C-Tick
CE mark (see declaration of conformity)	To EU EMC Directive ¹⁾ –	–	To EU EMC Directive ¹⁾ To EU Low Voltage Directive
Note on materials	Free of copper and PTFE RoHS-compliant	Free of copper and PTFE –	Free of copper and PTFE –

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Input signal/measuring element			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
Measuring principle	Magnetic reed	Magnetic reed	Magnetic reed
Ambient temperature [°C]	−40 ... +60	−40 ... +120	−20 ... +60

Switching output			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
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	0 ... 2
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	
Protection against short circuit	No
Protection against overloading	No

Electronic components			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
Operating voltage range DC [V]	12 ... 30	0 ... 30	3 ... 250
Operating voltage range AC [V]	12 ... 30	0 ... 30	3 ... 230
Reverse polarity protection	No	For all electrical connections	No

Proximity sensors SMEO-8E, for T-slot

Technical data – Magnetic reed

Electromechanical components				
Type	SMEO-8E-S-LED-24	SMEO-8E-M12-LED-24	SMEO-8E-K-24-S6, heat-resistant	SMEO-8E-M12-LED-230
Electrical connection	Plug M8x1, 3-pin	Plug M12x1, 3-pin	Cable, 2-wire	Plug M12x1, 3-pin
Connection direction	Lateral	Lateral	Lateral	In-line
Pin contact materials	Nickel-plated brass	Brass	–	–
Cable length [m]	–	–	2.5	–
Cable sheath materials	–	–	TPE-S	–

Mechanical components				
Type	SMEO-8E-S-LED-24	SMEO-8E-M12-LED-24	SMEO-8E-K-24-S6, heat-resistant	SMEO-8E-M12-LED-230
Type of mounting	Via accessories		Via accessories	Via accessories
Tightening torque [Nm]	0.5	0.5	0.5	0.5
Housing materials	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 alloy
	Nickel-plated brass	–	–	–

Display/operation			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
Switching status display	Yellow LED	–	Yellow LED

Immissions/emissions			
	SMEO-8E-...-24	SMEO-8E-...-24-S6, heat-resistant	SMEO-8E-...-230
Ambient temperature with flexible cable installation [°C]	–	–40 ... +120	–
Protection class	IP65	IP65	IP65
	IP67	IP67	IP67
Insulation voltage [V]	–	50	–
Surge capacity [kV]	0.8	–	4
Degree of contamination	3	3	3

Pin allocation to EN 60947-5-2			
M8x1, 3-pin			
N/O contact			
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output
M12x1, 3-pin, 24 V			
N/O contact			
	Pin	Wire colour	Allocation
	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	~ / +
	3	Blue	~ / –

Proximity sensors SMEO-8E, for T-slot

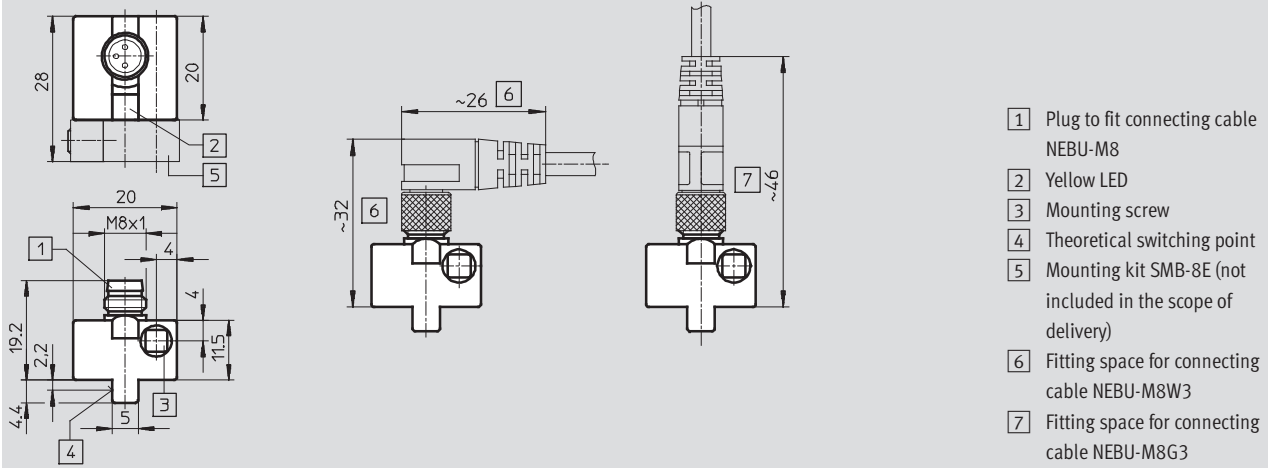
Technical data – Magnetic reed

FESTO

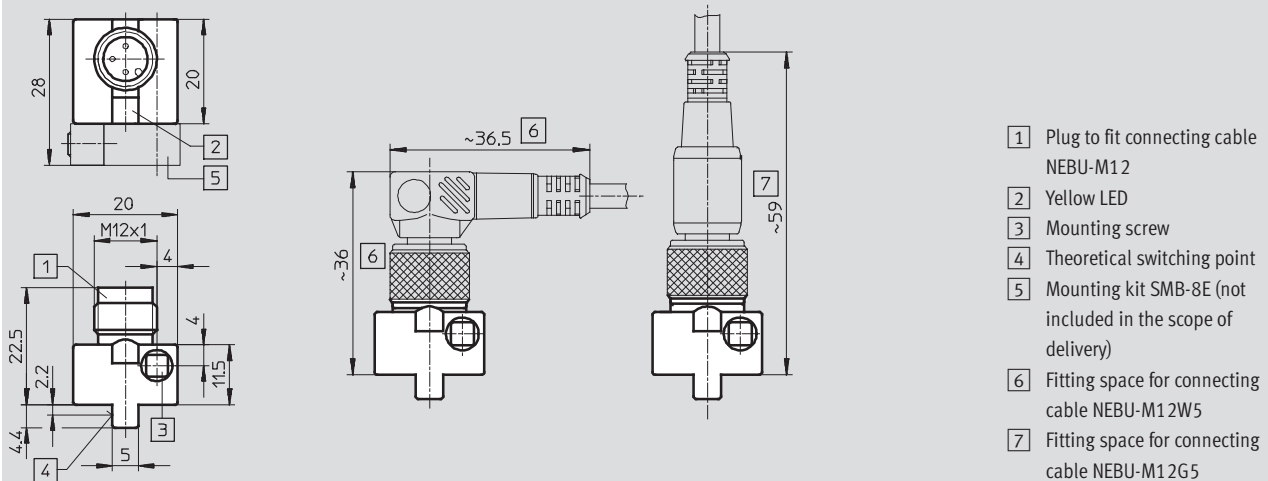
Dimensions

Download CAD Data → www.festo.com/us/cad

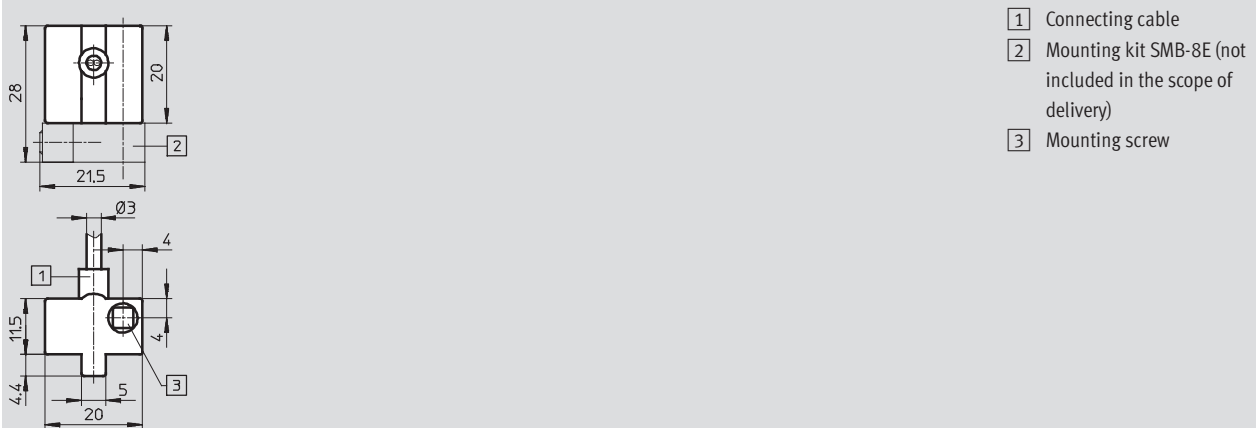
SMEO-8E-S-LED-24 – Plug M8x1



SMEO-8E-M12-LED-24 – Plug M12x1


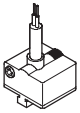
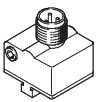


SMEO-8E-K24-S6 – Cable, heat-resistant up to 120 °C



Proximity sensors SMEO-8E, for T-slot

Technical data – Magnetic reed

Ordering data								
	Switching output	Electrical connection			Cable length [m]	Product weight [g]	Part No.	Type
		Cable	Plug M8x1	Plug M12x1				
N/O contact, basic version								
	Contacting, bipolar	-	3-pin	-		10	171163	SMEO-8E-S-LED-24
			-	3-pin			9	171164
N/O contact, heat-resistant								
	Contacting, bipolar		2-wire	-	2.5	40	171158	SMEO-8E-K-24-S6
N/O contact, operating voltage range 3 ... 250 V AC/DC								
	Contacting, bipolar		-	3-pin	-	9	171160	SMEO-8E-M12-LED-230

Proximity sensors SMT/SME-8, for T-slot

Accessories



Mounting kit SMBR-8-8/100-S6

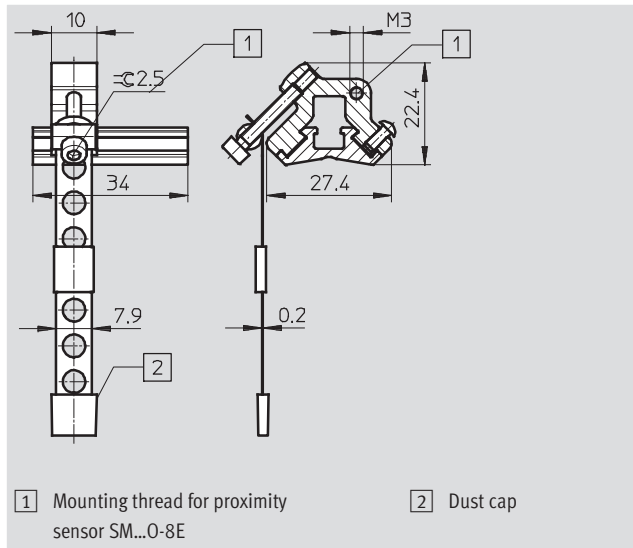
Materials:

Rail: Anodised wrought aluminium alloy

Clamping strap, screws: High-alloy stainless steel

Free of copper and PTFE

RoHS-compliant



1) Mounting thread for proximity sensor SM...0-8E
2) Dust cap

Dimensions and ordering data			
For piston Ø	Corrosion resistance class CRC ¹⁾	Part No.	Type
8 ... 100	4	538937	SMBR-8-8/100-S6

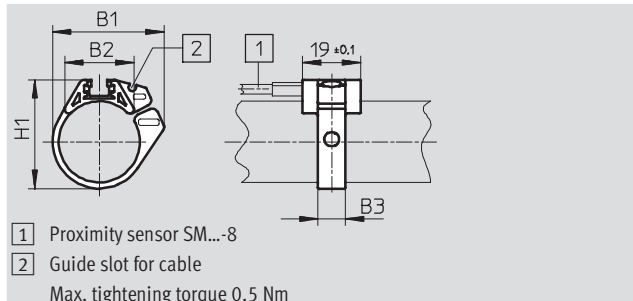
1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Mounting kit SMBR

Material:

Polyacetal

RoHS-compliant



1) Proximity sensor SM...-8
2) Guide slot for cable
Max. tightening torque 0.5 Nm

Dimensions and ordering data						
For piston Ø	B1	B2	B3	H1	Part No.	Type
8	18.9	12.3	7	17.5	175091	SMBR-8-8
10	20.4	13.7	7	19.9	175092	SMBR-8-10
12	22.7	14.3	7	21.9	175093	SMBR-8-12
16	28.2	16.9	8	25.7	175094	SMBR-8-16
20	34.5	20.8	9	30.4	175095	SMBR-8-20
25	36.7	22.7	9	35.6	175096	SMBR-8-25
32	41.7	24.6	9	42.7	175097	SMBR-8-32
40	47.1	26.5	9	50.7	175098	SMBR-8-40
50	56.4	28.6	9	61.5	175099	SMBR-8-50
63	69.4	32	9	74.5	175100	SMBR-8-63

Proximity sensors SMT/SME-8, for T-slot

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Accessories

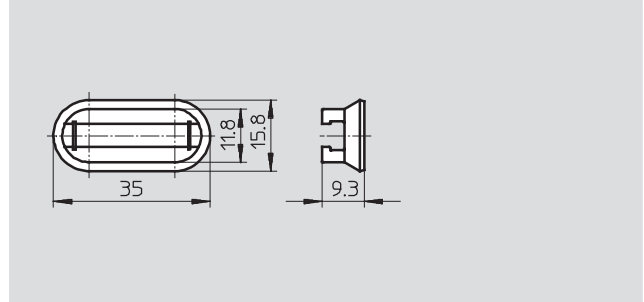
Mounting kit CRSMB

Design: For round cylinders
Type of mounting: Bonded using enclosed adhesive tape

Protection class: IP65, IP68, IP69K
Ambient temperature:
-40 ... +90 °C

Materials:

Housing: Polyurethane
Rail: Hard anodised aluminium
Free of copper and PTFE



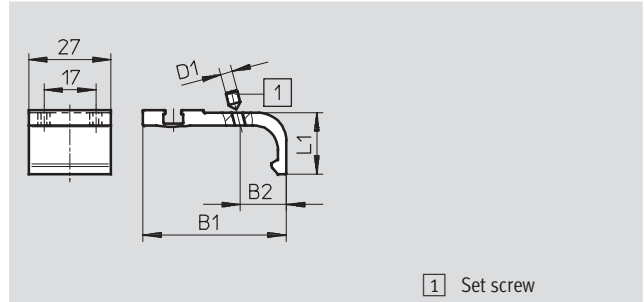
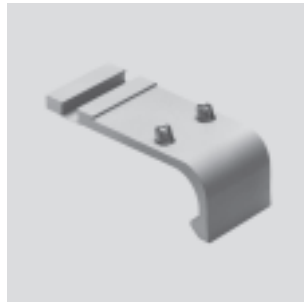
Ordering data			
For piston \varnothing	CRC ¹⁾	Part No.	Type
32 ... 100	4	525565	CRSMB-8-32/100

1) Corrosion resistance class 4 according to Festo standard 940 070

Components subject to very high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Mounting kit SMB-8-FENG

Material:
Wrought aluminium alloy
Free of copper and PTFE



1 Set screw

Dimensions and ordering data						
For piston \varnothing	B1	B2	D1	L1	Tightening torque [Nm]	Part No. Type
32/40	35.1	8.7	M3	15.5	0.2	175705 SMB-8-FENG-32/40
50/63	47	12.3	M4	20	0.5	175706 SMB-8-FENG-50/63
80/100	64.3	15.7	M5	24.3	0.7	175707 SMB-8-FENG-80/100

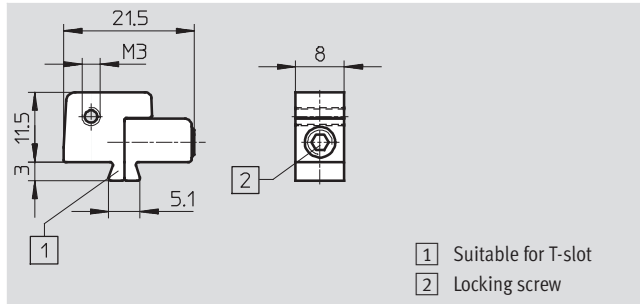
Proximity sensors SMT/SME-8, for T-slot

Accessories

FESTO

Mounting kit SMB-8E

Material:
Polyacetal

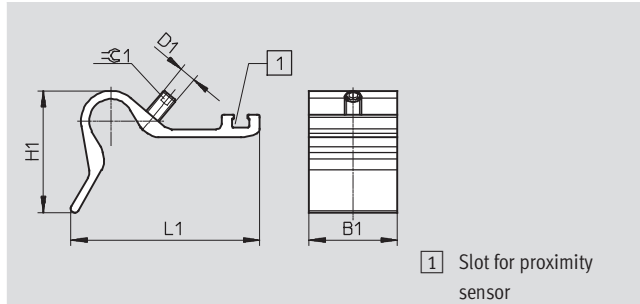
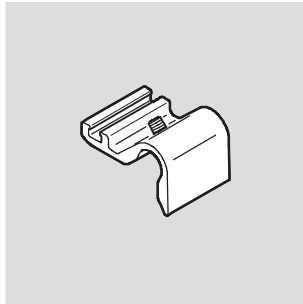


- 1 Suitable for T-slot
- 2 Locking screw

Ordering data		
For piston \emptyset	Part No.	Type
10 ... 125	178230	SMB-8E

Sensor retainer DASP-M4-125-A

Material:
Housing: Anodised wrought aluminium alloy
Screws: High-alloy stainless steel
RoHS-compliant



- 1 Slot for proximity sensor

Dimensions and ordering data										
Type	B1	D1	H1	L1	$\approx \emptyset 1$	Tightening torque [Nm]	CRC ¹⁾	Weight [g]	Part No.	Type
DASP-M4-125-A	32.5	M5	28	45.4	2.5	1	3	26.5	1451483	DASP-M4-125-A

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Proximity sensors SMT/SME-8, for T-slot

Accessories

Mounting SMBZ-8-...

Materials:

Rail: Anodised wrought aluminium alloy

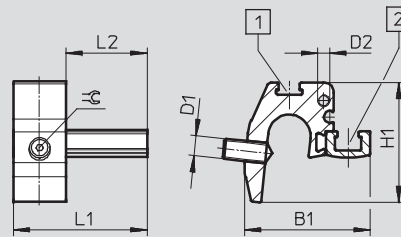
Screws: High-alloy stainless steel

Free of copper and PTFE

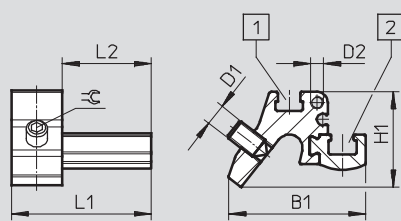
RoHS-compliant



SMBZ-8-32/100



SMBZ-8-125/320



1 Slot for inscription label

2 Slot for proximity sensor

Dimensions and ordering data								
For piston \varnothing	B1	D1	D2	H1	L1	L2	\approx	Part No. Type
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 component SMM

Insertable in slot lengthwise

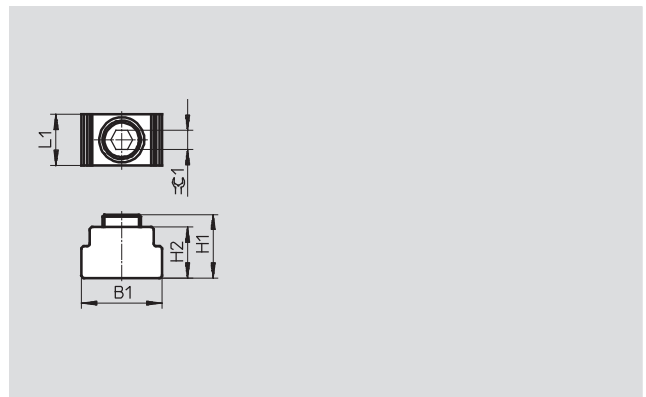
Ambient temperature: $-40 \dots +120 \text{ }^\circ\text{C}$

Materials:

Housing: Anodised wrought aluminium alloy

Screws: High-alloy stainless steel

Note on materials: RoHS-compliant



Dimensions and ordering data								
B1	H1	H2	L1	≈ 1	CRC ¹⁾	Part No.	Type	PU ²⁾
6.3	5.0	4.0	4.0	1.5	3	547941	SMM-8	10

1) CRC3: Corrosion resistance class to Festo standard 940 070





Components with heavy corrosion exposure. Externally visible components in direct contact with normal industrial atmosphere or media such as solvents and cleaning agents, where the surface requirement is predominantly functional.



2) Packaging unit

Proximity sensors SMT/SME-8, for T-slot


Accessories


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Ordering data – Connecting cables				Technical data → Internet: nebu	
		Number of wires	Cable length [m]	Part No.	Type
Socket M8x1, 3-pin					
	For SMT/SME-8... and SMT0/SMTSO/SME0-8E	3	2.5	541333	NEBU-M8G3-K-2.5-LE3
			5	541334	NEBU-M8G3-K-5-LE3
	For SMT/SME-8... and SMT0/SMTSO/SME0-8E	3	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3
Socket M12x1, 5-pin					
	For SMT/SME-8M and SMT0/SMTSO/SME0-8E	3	2.5	541363	NEBU-M12G5-K-2.5-LE3
			5	541364	NEBU-M12G5-K-5-LE3
	For SMT/SME-8M and SMT0/SMTSO/SME0-8E	3	2.5	541367	NEBU-M12W5-K-2.5-LE3
			5	541370	NEBU-M12W5-K-5-LE3

Ordering data – Inscription labels, safety clips				
	Size	Part No.	Type	PU ¹⁾
	23x4 mm	541598	ASLR-L-423	34
	M8	548067	NEAU-M8-GD	1
	M12	548068	NEAU-M12-GD	1

1) Packaging unit per frame

Ordering data – Mounting attachments			
	For Ø	Part No.	Type
	-	534254	SMBK-8

Ordering data – Sensor tester	
Part No.	Type
	158481 SM-TEST-1

Product Range and Company Overview

A Complete Suite of Automation Services

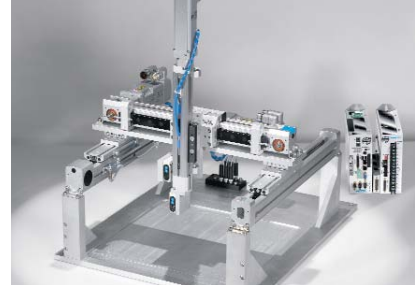
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