

Proximity sensors SMT/SME



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 slot from above, flush with cylinder profile	Magneto-resistive	SMT-8M	10 ... 30 V DC	PNP	N/O contact	6	
					NPN	N/C contact		
	Insertable in slot lengthwise, flush with cylinder profile	Magnetic reed	SME-8M	5 ... 30 V AC/DC	Contacting, bipolar	N/O contact		9
						N/C contact		
	Insertable in slot lengthwise, flush with cylinder profile	Magneto-resistive	SMT-8	10 ... 30 V DC	PNP	N/O contact	14	
					NPN			
	Insertable in slot lengthwise, flush with cylinder profile	Magnetic reed	SME-8	12 ... 30 V AC/DC	Contacting, bipolar	N/O contact	18	
				3 ... 230 V AC/DC		N/C contact		
				5 ... 250 V AC/DC		N/O contact	21	
	Insertable in slot lengthwise	Inductive	SMT-8-SL	10 ... 30 V DC	PNP	N/O contact	14	
		Magnetic reed	SME-8-SL	10 ... 30 V AC/DC	Contacting, bipolar	N/O contact	18	
	Insertable in slot from above	Magnetic reed	SME-8-FM	10 ... 30 V AC/DC	Contacting, bipolar	N/O contact	25	
	Via accessories	Magneto-resistive	SMT0-8E	10 ... 30 V DC	PNP	N/O contact	28	
					NPN			
	Via accessories	Magnetic reed	SME0-8E	12 ... 30 V DC	Contacting, bipolar	N/O contact	29	
				3 ... 250 V DC				30
				3 ... 230 V AC				
	Corrosion-resistant							
	Insertable in slot lengthwise, flush with cylinder profile	Magneto-resistive	CRSMT-8	10 ... 30 V DC	PNP	N/O contact	14	
	Welding field immune							
	Via accessories	Magneto-inductive	SMTSO-8E	10 ... 30 V DC	PNP	N/O contact	28	
					NPN			
Heat-resistant up to 120 °C								
Insertable in slot lengthwise, flush with cylinder profile	Magnetic reed	SME-8-...-S6	0 ... 30 V AC/DC	Contacting, bipolar	N/O contact	21		
Via accessories	Magnetic reed	SME0-8E-...-S6	0 ... 30 V DC	Contacting	N/O contact	30		
			0 ... 30 V AC					
For C-slot	Standard							
	Insertable in slot from above, flush with cylinder profile	Magneto-resistive	SMT-10F	5 ... 30 V DC	PNP	N/O contact	34	
				10 ... 30 V DC	NPN			
	Insertable in slot lengthwise	Magnetic reed	SME-10F		10 ... 30 V AC/DC			Contacting, bipolar
				5 ... 30 V AC/DC				
Insertable in slot lengthwise	Magneto-resistive	SMT-10	10 ... 30 V DC	PNP	N/O contact	37		
			NPN					
Insertable in slot lengthwise	Magnetic reed	SME-10	12 ... 27 V AC/DC	Contacting	N/O contact	38		

Proximity sensors

Selection aid

FESTO

Drive	SMT-8, SMT0-8E CRSMT-8 SME-8, SME0-8E SMPO-8E	SMT-10 SME-10	SMT0-4U SME0-4U CRSME0-4	SMT0-1 SMT0-6 SME0-1 SMPO-1	SMT-C1
Standards-based cylinders					
Standard cylinders DSNU, ESNU	∅ 8 ... 25 mm	■	■	■	-
Standard cylinders DSN, ESN	∅ 8 ... 25 mm	■	■	■	-
Standard cylinders DNCB		■	-	-	-
Standard cylinders DNC		■	-	-	-
Standard cylinders DNG		■	-	■	-
Standard cylinders CDN-...-R with sensor strip		-	-	-	■
Standard cylinders ADN		■	-	-	-
Cylinders with piston rod					
Compact cylinders ADVU, AEVU		■	-	-	-
Short-stroke cylinders ADVC, AEVC	∅ 6 ... 25 mm	-	■	-	-
	∅ 32 ... 100 mm	■	-	-	-
Flat cylinders EZH-10/40-40-A-B		■	-	-	-
Flat cylinders DZF		■	-	-	-
Flat cylinders DZH	∅ 16 ... 25 mm	■	-	-	-
	∅ 32 ... 63 mm	-	-	■	-
Round cylinders DSNU, ESNU	∅ 32 ... 63 mm	■	■	■	-
Round cylinders DSW, ESW		■	■	■	-
Round cylinders DSEU, ESEU		■	■	■	-
Multimount cylinders DMM, EMM		■	-	-	-
Round cylinders CRDG		-	-	■	-
Round cylinders CRDSW		■	■	■	-
Standard cylinders CRHD		■	-	-	-
Standard cylinders CRDSNU		■	-	■	-
Standard cylinders CRDNG		■	-	■	-
Standard cylinders CRDNGS		■	-	■	-
Rodless cylinders					
Linear drives DGC	∅ 8, 12 mm	-	■	-	-
	∅ 18 ... 63 mm	■	-	-	-
Linear drives DGP, DGPL		■	-	-	-
Linear drives SLG		-	■	-	-
Linear drives DGO		-	-	■	-
Linear drives SLM		■	-	-	-
Semi-rotary drives					
Swivel modules DSM	∅ 6 ... 10 mm	-	■	-	-
Swivel modules DSM-B	∅ 12 ... 40 mm	-	■	-	-
	∅ 63 mm	■	-	-	-
Semi-rotary drives DRQ	∅ 16 ... 32 mm	■	-	-	-
	∅ 40 ... 100 mm	-	-	■	-
Semi-rotary drives DRQD	∅ 6 ... 12 mm	-	■	-	-
	∅ 16 ... 32 mm	■	-	-	-
Technical data → Page/Internet		6, slot 8	34	smt0, crsmeo	smt0
					smt-c1

Proximity sensors

Selection aid

FESTO

Drive	SMT-8, SMT0-8E CRSMT-8 SME-8, SME0-8E, SMPO-8E	SMT-10 SME-10	SMH-S1
Function-oriented drives			
Stopper cylinders STA, STAF	■	-	-
Linear/swivel clamps CLR	■	-	-
Swivel/linear units DSL	■	-	-
Swivel/linear units DSL-B	-	■	-
Drives with linear guide			
Mini slides SLS, SLF, SLT	-	■	-
Mini slides DGSL	-	■	-
Twin cylinders SPZ	■	-	-
Slide units SLZ	■	-	-
Guided cylinders DFP	∅ 6 ... 16 mm	-	■
	∅ 25 ... 80 mm	■	-
Mini guided drives DFC	-	■	-
Guided drives DFM	■	-	-
Guided drives DFM-B	■ ¹⁾	-	-
Linear units SLE	∅ 32 ... 50 mm	■	-
Twin cylinders DPZC	-	■	-
Twin cylinders DPZ	■	-	-
Handling units			
Linear modules HMP	■	-	-
Linear modules HMPL	■	-	-
Handling modules HSP, HSW	■	-	-
Feed separators HPV	■	-	-
Three-point grippers HGD	∅ 16 mm	-	■
	∅ 32, 50 mm	■ ²⁾	-
Three-point grippers HGDT	-	■	-
Parallel grippers HGP	∅ 6 mm	-	■
	∅ 10 ... 35 mm	■ ²⁾	-
Parallel grippers HGPC	-	■	-
Parallel grippers HGPP	∅ 12 ... 32 mm	-	■
Parallel grippers HGPT	∅ 16 ... 63 mm	-	■
Angle grippers HGW	∅ 10 mm	-	■
	∅ 16 ... 40 mm	■	-
Radial grippers HGR	∅ 10 mm	-	■
	∅ 16 ... 40 mm	■	-
Swivel/gripper units HGDS	-	■	-
Cushioning components			
Stop elements YSRWJ	■	-	-
Electrical positioning systems			
Toothed belt axes DGE-ZR	■	-	-
Spindle axes DGE-SP	■	-	-
System components			
Heavy-duty guides HD	■	-	-
Valve actuators			
Copac linear actuators DLP-A	■	-	-
Technical data → Page/Internet	6, slot 8	34	smh

1) Not SM...O-8E.

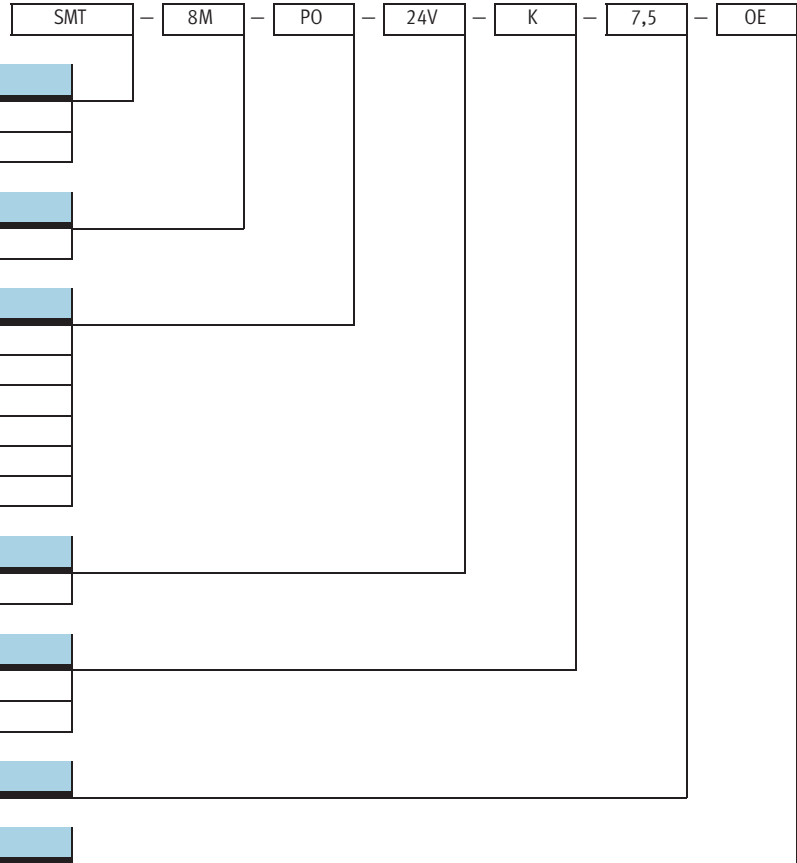
2) SME-8M only for HGD-50, HGP-20 ... 35.

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

Type codes

FESTO

SMT/SME-8M



Function

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

Design

8M	For T-slot, insertable in slot from above
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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
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Cable properties

K	Standard + energy chain
E	Energy chain + robots

Cable length [m]

Electrical connection

OE	Open end
M5D	Cable with plug M5x0.5, rotatable thread
M8	Cable with plug M8x1, snap-on flange
M8D	Cable with plug M8x1, rotatable thread
M12	Cable with plug M12x1, rotatable thread

Proximity sensors SMT-8M, for T-slot

Technical data – Magneto-resistive



Technical data							
Switching element function	PS/NS						PO
Electrical connection	OE	M5D	M8D	M12	OE		
Type of mounting	Screw-clamped in slot, insertable from above, flush with cylinder profile						
Connection direction	In-line						
Electrical connection	Cable, 3-wire		Cable with plug, rotatable thread			Cable, 3-wire	
			M5x0.5, 3-pin	M8x1, 3-pin	M12x1, 3-pin		
Cable length	[m]	2.5	5	0.3	0.3	0.3	7.5
Cable properties ¹⁾	K	Standard + energy chain					
	E	Energy chain + robots					
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: > 300,000 cycles, ±270°/0.1 m					
		Resistance to bending: to Festo standard; test conditions on request					
Operating voltage range DC	[V]	10 ... 30					
Max. output current	[mA]	100					
Max. switching capacity DC	[W]	3.0					
Protection against short circuit	Pulsed						
Protection against overloading	Yes						
Protection against polarity reversal	For all electrical connections						
Protection class	IP65, IP68						

1) If the relevant option is selected: modular product → 8.

Operating and environmental conditions		
Ambient temperature	[°C]	-20 ... +70
Ambient temperature with flexible cable installation	[°C]	-5 ... +70
CE mark (see declaration of conformity)	To EU EMC Directive	
Certification	cULus listed (OL)	
	C-Tick	

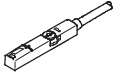
Materials				
Cable properties ¹⁾	K		E	
Electrical connection	OE	M...	OE	M...
Housing	Polyamide, high-alloy stainless steel	Polyamide, high-alloy stainless steel, polyurethane, nickel-plated brass	Polyamide, high-alloy stainless steel	Polyamide, high-alloy stainless steel, polyurethane, nickel-plated brass
Cable sheath	Polyurethane, oil-resistant		Polyurethane, oil-resistant, halogen-free	
Note on materials	Free of copper and PTFE			
	RoHS-compliant			

1) If the relevant option is selected: modular product → 8.

Proximity sensors SMT-8M, for T-slot

Technical data – Magneto-resistive



Ordering data								
	Switching output	Electrical connection				Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread					
			M5x0.5	M8x1	M12x1			
	N/O contact							
	PNP	3-wire	–	–	–	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE
			–	–	–	5.0	543 868	SMT-8M-PS-24V-K-5,0-OE
		–	3-pin	–	–	0.3	543 865	SMT-8M-PS-24V-K-0,3-M5D
			–	3-pin	–		543 866	SMT-8M-PS-24V-K-0,3-M8D
			–	–	3-pin		543 869	SMT-8M-PS-24V-K-0,3-M12
		NPN	3-wire	–	–	–	2.5	543 870
	–		–	3-pin	–	0.3	543 871	SMT-8M-NS-24V-K-0,3-M8D
	N/C contact							
	PNP	3-wire	–	–	–	7.5	543 873	SMT-8M-PO-24V-K-7,5-OE

Proximity sensors SMT-8M, for T-slot

Modular products – Magneto-resistive



M Mandatory data

Module No.	Function	Switching output	Rated operating voltage	Cable properties	Cable length	Connection technology
543 893	SMT-8M	PS NS PO	24V	K E	0.2 ... 30	OE M8D M8 M12
Order example						
543 893	SMT-8M	- NS	- 24V	- E	- 3	- M8D

Ordering table

Size	8	Condi- tions	Code	Enter code
M Module No.	543 893			
Function	Proximity sensor for T-slot, non-contacting		SMT-8M	SMT-8M
			-	-
Switching output	3-wire PNP N/O contact		PS	
	3-wire NPN N/O contact		NS	
	3-wire PNP N/C contact		PO	
			-	-
Rated operating voltage [V DC]	24		24V	24V
			-	-
Cable properties	Standard + energy chain		K	
	Energy chain + robots		E	
			-	-
Cable length [m]	0.2 ... 30		...	
	(0.2 ... 5.0 m in 0.1 m steps, 5.0 ... 30 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

543 893	SMT-8M	-		-	24V	-		-		-	
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Proximity sensors SME-8M, for T-slot

Technical data – Magnetic reed



Technical data										
Switching element function	DS					ZS		DO		
Electrical connection	OE		M5D		M8D		OE		OE	
Type of mounting	Screw-clamped in slot, insertable from above, flush with cylinder profile									
Connection direction	In-line									
Electrical connection	Cable, 3-wire			Cable with plug, rotatable thread			Cable, 2-wire		Cable, 3-wire	
				M5x0.5, 3-pin		M8x1, 3-pin				
Cable length [m]	2.5	5	7.5	0.3	0.3	2.5	7.5			
Voltage drop [V]	1.5	1.875	2.25	1.17	1.17	4.8	4.25			
Cable properties ¹⁾	K		Standard + energy chain							
	E		Energy chain + robots							
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: > 300,000 cycles, ±270°/0.1 m							
			Resistance to bending: to Festo standard; test conditions on request							
Operating voltage range DC [V]	5 ... 30									
Operating voltage range AC [V]	5 ... 30									
Max. output current [mA]	500						80			
Max. output current in mounting kits [mA]	80						80			
Max. switching capacity DC [W]	10.0						2.4			
Max. switching capacity DC in mounting kits [W]	2.4						2.4			
Max. switching capacity AC [VA]	10.0						2.4			
Max. switching capacity AC in mounting kits [VA]	2.4						2.4			
Protection against short circuit	No									
Protection against overloading	No									
Protection against polarity reversal	No									
Protection class	IP65, IP68									

1) If the relevant option is selected: modular product → 11.

Operating and environmental conditions		
Ambient temperature [°C]	-40 ... +70	
Ambient temperature with flexible cable installation [°C]	-5 ... +70	
CE mark (see declaration of conformity)	To EU EMC Directive	
Certification	cULus recognized (OL)	
	C-Tick	

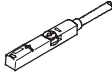
Materials					
Cable properties ¹⁾	K			E	
Electrical connection	OE		M...		M...
Housing	Polyamide, high-alloy stainless steel		Polyamide, high-alloy stainless steel, polyurethane, nickel-plated brass		Polyamide, high-alloy stainless steel, polyurethane, nickel-plated brass
Cable sheath	Polyurethane, oil-resistant			Polyurethane, oil-resistant, halogen-free	
Note on materials	Free of copper and PTFE				
	RoHS-compliant				

1) If the relevant option is selected: modular product → 11.

Proximity sensors SME-8M, for T-slot



Technical data – Magnetic reed

Ordering data							
	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread				
			M5x0.5	M8x1			
	N/O contact						
	Contacting, bipolar	3-wire	–	–	2.5	543 862	SME-8M-DS-24V-K-2,5-OE
			–	–	5.0	543 863	SME-8M-DS-24V-K-5,0-OE
			–	–	7.5	543 876	SME-8M-DS-24V-K-7,5-OE
		–	3-pin	–	0.3	543 864	SME-8M-DS-24V-K-0,3-M5D
		–	–	3-pin		543 861	SME-8M-DS-24V-K-0,3-M8D
		2-wire	–	–	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE
	N/C contact						
Contacting, bipolar	3-wire	–	–	7.5	546 799	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
543 892	SME-8M	DS ZS DO	24V	K E	0.2 ... 10	OE M8D M8 M12
Order example						
543 892	SME-8M	ZS	24V	K	0.8	OE

Ordering table

Size	8	Condi- tions	Code	Enter code
M Module No.	543 892			
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 + robots		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

543 892	SME-8M	-		-	24V	-		-		-	
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Proximity sensors SMT/CRSMT/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
O	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

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 SMT/CRSMT/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
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Design

8	For T-slot, insertable in slot lengthwise
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Switching output, switching element function

PS	PNP, N/O contact, 3-wire
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Electrical connection, cable length

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

Switching status display

LED	Yellow LED
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Rated operating voltage

24	24 V DC
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SME-8-ZS-230V

SME – 8 – ZS – 230V – K2,5Q – OE

Function

SME	Proximity sensor, magnetic reed
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Design

8	For T-slot, insertable in slot lengthwise
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Switching output, switching element function

ZS	N/O contact, 2-wire
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Rated operating voltage

230V	230 V AC/DC
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Electrical connection, cable length, connection direction

K2,5Q	Cable, 2.5 m, lateral
K5,0Q	Cable, 5.0 m, lateral

Connection technology

OE	Open end
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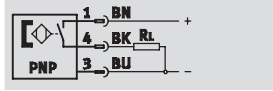
Proximity sensors SMT-8/CRSMT-8, for T-slot

Technical data – Magneto-resistive

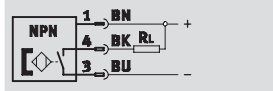


Function

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



e.g. NPN, 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



SMT-8



SMT-8-SL

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

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

Switching output				
Type	SMT-8		CRSMT	SMT-8-SL
Switching output	PNP	NPN	PNP	PNP
Switching output	PNP	NPN	PNP	PNP
Switching element function	N/O contact		N/O contact	N/O contact
Reproducibility of switching value [mm]	±0.1		±0.1	–
Switch-on time [ms]	≤ 0.2	≤ 1	≤ 0.2	≤ 1
Switch-off time [ms]	≤ 0.5	≤ 0.8	≤ 0.5	3 ... 5
Max. switching frequency [Hz]	–		1,000	140
Max. output current [mA]	100		100	100
Max. switching capacity DC [W]	3		3	3
Voltage drop [V]	≤ 1.8	≤ 1.5	≤ 1.8	≤ 2
Residual current [µm]	≤ 100	≤ 2	≤ 100	≤ 1.5

Output – Additional data				
Type	SMT-8		CRSMT	SMT-8-SL
Switching output	PNP	NPN	PNP	PNP
Protection against short circuit	Pulsed	Yes	Yes	Yes
Protection against overloading	Yes	–	–	Yes

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

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

Technical data – Magneto-resistive



Electromechanical components						
Type	SMT-8				CRSMT	SMT-8-SL
Switching output	PNP		NPN		PNP	PNP
Electrical connection	Cable, 3-wire	Cable with plug, 3-pin	Cable, 3-wire	Cable with plug, 3-pin	Cable, 3-wire	Plug M8x1, 3-pin
Connection direction	In-line				–	In-line
Cable length [m]	2.5	0.3	2.5	0.3	2.5	–
	5	–	–	–	5	
Cable properties	Standard		–		–	–
Information on cable sheath materials	Polyurethane				Thermoplastic polyolefin elastomer	–

Mechanical components						
Type	SMT-8				CRSMT	SMT-8-SL
Switching output	PNP		NPN		PNP	PNP
Electrical connection	Cable, 3-wire	Cable with plug M8x1, 3-pin	Cable, 3-wire	Cable with plug M8x1, 3-pin	Cable, 3-wire	Plug M8x1, 3-pin
Type of mounting	Clamped in T-slot				Clamped in T-slot	Screw-clamped
	Insertable in slot lengthwise				–	Insertable in slot lengthwise
Information on housing materials	High-alloy stainless steel				High-alloy stainless steel	Polyamide
	Thermoplastic polyurethane elastomer				Polypropylene	–
	–	Brass	–	Brass	–	–
	–	Nickel-plated	–	Nickel-plated	–	–

Display/operation	
Switching status display	Yellow LED

Immissions/emissions			
Type	SMT-8	CRSMT	SMT-8-SL
Ambient temperature with flexible cable installation [°C]	–5 ... +60	–5 ... +60	–
Protection class	IP65	IP65	IP65
	IP67	IP68	IP68
	–	IP69K	–
Insulation voltage [V]	–	500	–
Degree of contamination	–	3	–
Corrosion resistance class CRC	2	4	3

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

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

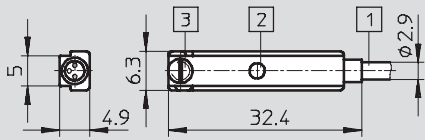
Technical data – Magneto-resistive



Dimensions

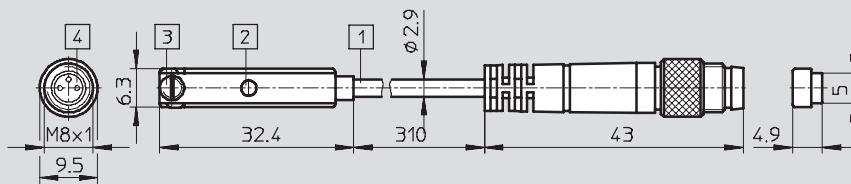
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SMT-8-...S-K



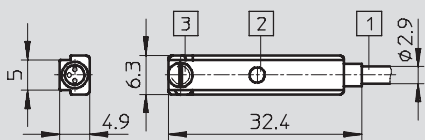
- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

SMT-8-...S-S



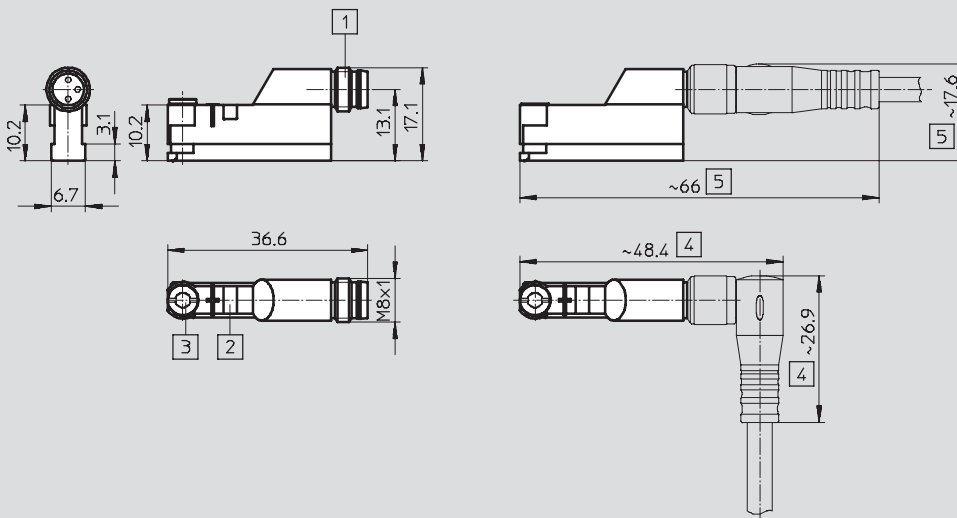
- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component
- 4 Plug to fit connecting cable NEBU-M8

CRSMT



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

SMT-8-SL



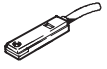
- 1 Plug to fit connecting cable NEBU-M8
- 2 Yellow LED
- 3 Clamping component
- 4 Fitting space for connecting cable NEBU-M8W3
- 5 Fitting space for connecting cable NEBU-M8G3

Ordering data

	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug M8x1	Plug M8x1			
N/O contact, basic version							
	PNP	3-wire	–	–	2.5	175436	SMT-8-PS-K-LED-24-B
		–	3-pin	–	5.0	175434	SMT-8-PS-K5-LED-24-B
	NPN	3-wire	–	–	2.5	171180	SMT-8-NS-K-LED-24-B
		–	3-pin	–	0.3	171181	SMT-8-NS-S-LED-24-B
	PNP	–	–	3-pin	–	562019	SMT-8-SL-PS-LED-24-B

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

Technical data – Magneto-resistive

Ordering data							
	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug M8x1	Plug M8x1			
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

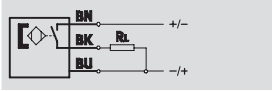
Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed

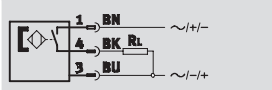


Function

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-O	SME-8-ZS	SME-8-SL
Design	For T-slot				
Conforms to	EN 60947-5-2				
CE mark (see declaration of conformity)	To EU EMC Directive				
Note on materials	Free of copper and PTFE				
	-				RoHS-compliant

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]	-30 ... +60	-30 ... +70	-30 ... +70	-20 ... +70	-20 ... +60	-20 ... +60	-20 ... +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
Protection against polarity reversal	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	–
Information on cable sheath materials	Polyurethane						–

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						
Information on housing materials	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

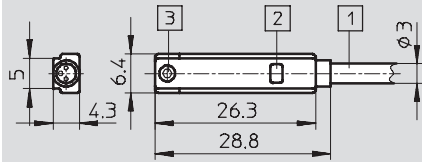
Technical data – Magnetic reed



Dimensions

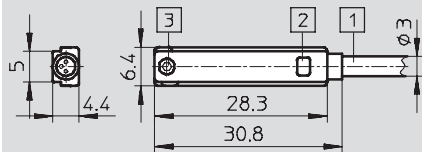
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N/O contact, cable



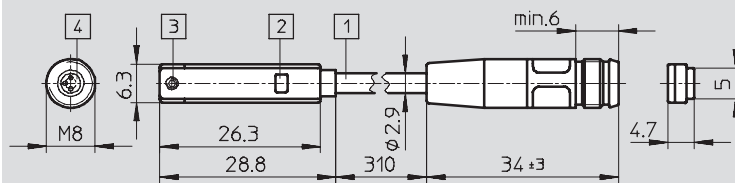
- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

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
		2-wire	-	-	0.3	150857	SME-8-S-LED-24
			-	-	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

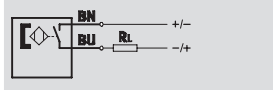
Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed

Function

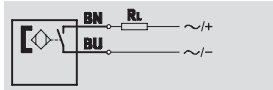
e.g. N/O contact, with cable, 2-wire,

0 ... 30 V AC/DC

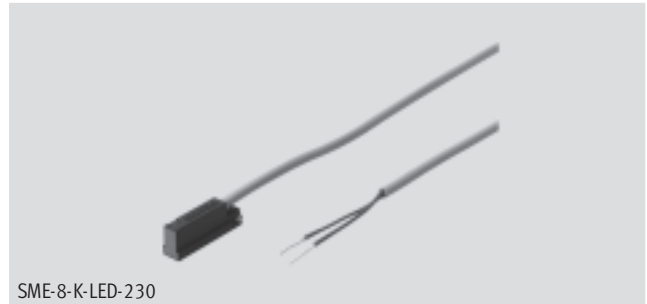


e.g. N/O contact, with cable, 2-wire,

5 ... 250 V AC/DC



- Magnetic reed measuring principle
- Insertable in slot lengthwise
- Heat-resistant design
- Variants with operating voltage range up to 250 V DC/AC



SME-8-K-LED-230

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

Input signal/measuring element			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Measuring principle	Magnetic reed		
Ambient temperature [°C]	–40 ... +120	–40 ... +60	–20 ... +60

Switching output			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Switching output	Contacting, bipolar		
	–	Without LED function	–
Switching element function	N/O contact		
Reproducibility of switching value [mm]	±0.1	±0.1	±0.1
Switch-on time [ms]	≤ 0.5	2	≤ 2
Switch-off time [ms]	≤ 0.03	0.03	≤ 0.1
Max. switching frequency [Hz]	800	500	50
Max. output current [mA]	500	120	120
Max. switching capacity AC [VA]	10		
Max. switching capacity DC [W]	10		
Voltage drop [V]	≤ 0	≤ 3.9	≤ 4
Residual current [mA]	–	0	0

Output – Additional data			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Protection against short circuit	No		
Protection against overloading	No		

Electronic components			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Operating voltage range [V AC]	0 ... 30	3 ... 230	5 ... 250
Operating voltage range [V DC]	0 ... 30	3 ... 230	5 ... 250
Protection against polarity reversal	No		

Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed



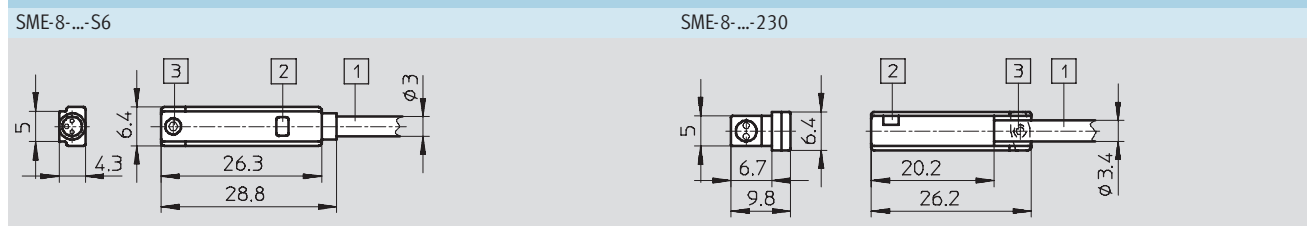
Electromechanical components			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Electrical connection	Cable, 2-wire		
Connection direction	In-line		Lateral
Cable length [m]	2.5	2.5	2.5
	–	–	5
Information on cable sheath materials	Thermoplastic styrene elastomer	Polyurethane	Thermoplastic polyurethane elastomer

Mechanical components			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Type of mounting	Clamped in T-slot		
	Insertable in slot lengthwise		
Information on housing materials	Epoxy resin		
	Polycarbonate		
	Polyethylene terephthalate		
	High-alloy stainless steel		

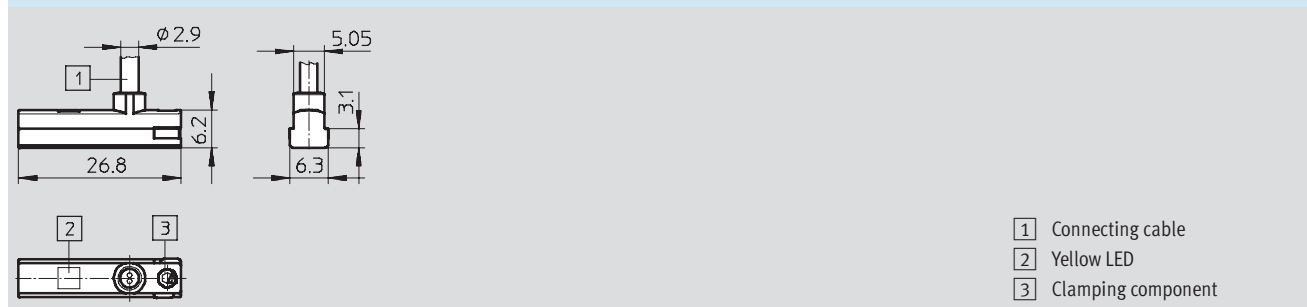
Display/operation			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Switching status display	–	Yellow LED	Yellow LED

Immissions/emissions			
	SME-8-...-S6	SME-8-...-230	SME-8-ZS-230V-...
Ambient temperature with flexible cable installation [°C]	–5 ... +120	–5 ... +60	–5 ... +60
Protection class	–	–	IP65
	IP67	IP67	IP67
Insulation voltage [V]	50	–	250
Surge capacity [kV]	0.8	4	4
Degree of contamination	3	3	–

Dimensions Download CAD data → www.festo.com



SME-8-ZS-230V-...

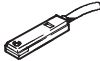
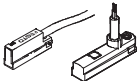


- 1 Connecting cable
- 2 Yellow LED
- 3 Clamping component

Proximity sensors SME-8, for T-slot

Technical data – Magnetic reed



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 250 V AC/DC						
	Contacting, bipolar	2-wire	In-line	2.5	152820	SME-8-K-LED-230
			Lateral	2.5	538816	SME-8-ZS-230V-K2,5Q-OE
				5.0	538817	SME-8-ZS-230V-K5,0Q-OE

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

Type codes

SME-8-FM

SMT – 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

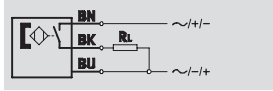
Electrical connection	
OE	Open end

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

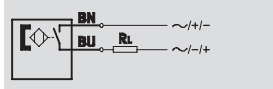
Technical data – Magnetic reed

Function

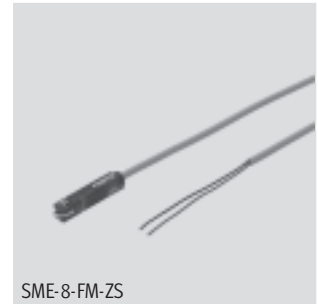
e.g. N/O contact, with cable, 3-wire



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



- Magnetic reed measuring principle
- Insertable in slot from above



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	
Information on cable sheath materials	Polyvinyl chloride	

Mechanical components		
Type	SME-8-FM-DS	SME-8-FM-ZS
Type of mounting	Screw-clamped Insertable in slot from above	
Information on housing materials	Polyamide	

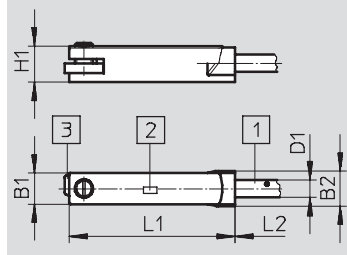
Proximity sensors SME-8-FM, for T-slot

Technical data – Magnetic reed

Display/operation	
Switching status display	Yellow LED

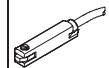
Immissions/emissions	
Ambient temperature with flexible cable installation	[°C] -5 ... +60
Protection class	IP67

Dimensions Download CAD data → www.festo.com



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

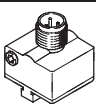




Technical data – Magneto-resistive

Technical data		
	SMT0-8E	SMTSO-8E, welding field immune
Type of mounting	Via accessories	
Electrical connection	Plug M8x1, 3-pin	Plug M12x1, 3-pin
	Plug M12x1, 3-pin	
Operating voltage range DC [V]	10 ... 30	
Max. output current [mA]	100	200
Max. switching capacity DC [W]	3.0	6.0
Protection against short circuit	Yes	
Protection against overloading	No	
Protection against polarity reversal	For all electrical connections	
Resistance to interference from magnetic fields	–	Alternating magnetic field 45 ... 65 Hz
Protection class	IP65, IP67	

Operating and environmental conditions		
	SMT0-8E	SMTSO-8E, welding field immune
Ambient temperature [°C]	–20 ... +60	–25 ... +70
CE mark (see declaration of conformity)	To EU EMC Directive	

Materials		
	SMT0-8E	SMTSO-8E, welding field immune
Housing	Polyurethane	Polyamide

Ordering data					
	Switching output	Electrical connection		Part No.	Type
		Plug M8x1	Plug M12x1		
N/O contact, basic version					
	PNP	3-pin	–	171 178	SMT0-8E-PS-S-LED-24
		–	3-pin	171 179	SMT0-8E-PS-M12-LED-24
	NPN	3-pin	–	171 166	SMT0-8E-NS-S-LED-24
		–	3-pin	171 176	SMT0-8E-NS-M12-LED-24
N/O contact, welding field immune					
	PNP	–	3-pin	191 986	SMTSO-8E-PS-M12-LED-24
	NPN	–	3-pin	175 825	SMTSO-8E-NS-M12-LED-24

 Note
 Mounting kit not included in the scope of delivery. Corresponding mounting kits, peripherals overview
 → 31

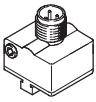
Proximity sensors SMEO-8E, for T-slot


Technical data – Magnetic reed

Technical data			
Type of mounting	Via accessories		
Electrical connection	Plug M8x1, 3-pin	Plug M12x1, 3-pin	
Operating voltage range DC	[V]	12 ... 30	
Max. output current	[mA]	500	
Max. switching capacity DC	[W]	10.0	
Protection against short circuit	No		
Protection against overloading	No		
Protection against polarity reversal	No		
Protection class	IP65, IP67		

Operating and environmental conditions			
Ambient temperature	[°C]	-20 ... +60	
CE mark (see declaration of conformity)	To EU EMC Directive		

Materials	
Housing	Polyurethane

Ordering data					
	Switching output	Electrical connection		Part No.	Type
		Plug M8x1	Plug M12x1		
N/O contact, basic version					
	Contacting, bipolar	3-pin	-	171 163	SMEO-8E-S-LED-24
		-	3-pin	171 164	SMEO-8E-M12-LED-24

-  - Note
 Mounting kit not included in the scope of delivery. Corresponding mounting kits, peripherals overview
 → 31

Proximity sensors SMEO-8E, for T-slot

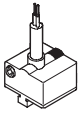
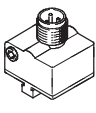
Technical data – Magnetic reed




Technical data		
	SMEO-8E-...-S6	SMEO-8E-...-230
Type of mounting	Via accessories, insertable in slot from above	
Electrical connection	Cable, 2-wire	Plug M12x1, 3-pin
Operating voltage range DC [V]	0 ... 30	3 ... 250
Operating voltage range AC [V]	0 ... 30	3 ... 250
Max. output current [mA]	500	120
Max. switching capacity DC [W]	10.0	10.0
Max. switching capacity AC [VA]	10.0	10.0
Protection against short circuit	No	
Protection against overloading	No	
Protection against polarity reversal	No	
Protection class	IP65, IP67	

Operating and environmental conditions		
	SMEO-8E-...-S6	SMEO-8E-...-230
Ambient temperature [°C]	-40 ... +120	-20 ... +60
Ambient temperature with flexible cable installation [°C]	-40 ... +120	-
CE mark (see declaration of conformity)	Not necessary	To EU EMC Directive To EU Low Voltage Directive

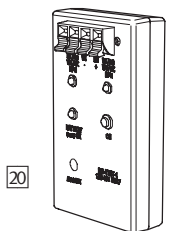
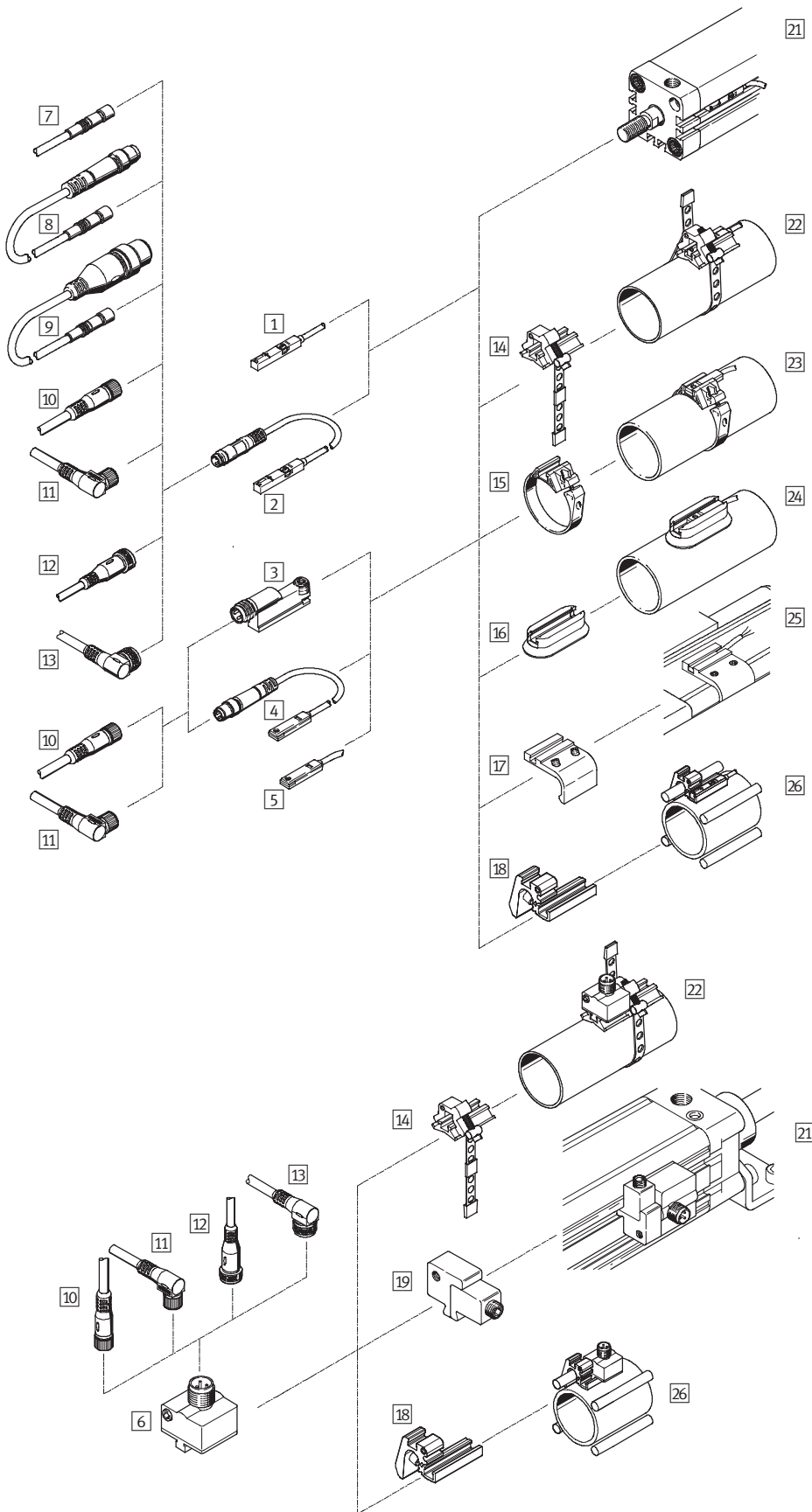
Materials		
	SMEO-8E-...-S6	SMEO-8E-...-230
Housing	Polyurethane	
Cable sheath	Thermoplastic styrene elastomer	-

Ordering data						
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Plug			
N/O contact, heat-resistant						
	Contacting, bipolar	2-wire	-	2.5	171 158	SMEO-8E-K-24-S6
N/O contact, operating voltage range 3 ... 250 V AC/DC						
	Contacting, bipolar	-	3-pin	-	171 160	SMEO-8E-M12-LED-230

-  - Note
 Mounting kit not included in the scope of delivery. Corresponding mounting kits, peripherals overview
 → 31

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

Peripherals overview



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

Accessories

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Mounting attachments and accessories	
Proximity sensors	
1	SMT/SME-8M-...-OE, with cable
2	SMT/SME-8M-...-M..., with cable and plug
3	SMT/SME-8-SL-..., with plug
4	SMT/SME-8-S-..., with cable and plug
5	SMT/SME-8-K-..., with cable SME-8-FM-...-K-..., with cable CRSMT-8-K-..., with cable, corrosion-resistant
6	SMT/SMTSO/SMEO-8E, with cable or plug
Connecting cables	
7	NEBU-M5...-5-Q3-LE3
8	NEBU-M5...-1-Q3-M8G3
9	NEBU-M5...-1-Q3-M12G4
10	NEBU-M8G3
11	NEBU-M8W3
12	NEBU-M12G5
13	NEBU-M12W5

Ordering data – Connecting cables				
			Technical data → Internet: nebu	
	Number of wires	Cable length [m]	Part No.	Type
M5x0.5, straight socket				
	3	2.5	539 508	NEBU-M5G4-K-5-Q3-LE3
		1.0	539 510	NEBU-M5G4-K-1-Q3-M8G3
	4	1.0	539 512	NEBU-M5G4-K-1-Q3-M12G4
M8x1, straight socket				
	3	2.5	541 333	NEBU-M8G3-K-2.5-LE3
		5	541 334	NEBU-M8G3-K-5-LE3
M8x1, angled socket				
	3	2.5	541 338	NEBU-M8W3-K-2.5-LE3
		5	541 341	NEBU-M8W3-K-5-LE3
M12x1, straight socket				
	3	2.5	541 363	NEBU-M12G5-K-2.5-LE3
		5	541 364	NEBU-M12G5-K-5-LE3
M12x1, angled socket				
	3	2.5	541 367	NEBU-M12W5-K-2.5-LE3
		5	541 370	NEBU-M12W5-K-5-LE3

Ordering data – Inscription labels, safety clips				
	Size	Part No.	Type	PJ ¹⁾
	23x4 mm	541 598	ASLR-L-423	34
	M8	548 067	NEAU-M8-GD	1
	M12	548 068	NEAU-M12-GD	1

1) Packaging unit per frame.

Mounting attachments and accessories	
Mounting kits and accessories	
14	Mounting kit SMBR-8-8/100-S6, heat-resistant
15	Mounting kit SMBR
16	Mounting kit CRSMB, corrosion-resistant
17	Mounting kit SMB-8-FENG
18	Mounting SMBZ-8-...
19	Mounting kit SMB-8E
20	Sensor tester SM-TEST-1
-	Clip SMBK-8
	Inscription label ASLR
	Safety clip NEAU
Drives	
21	Drives with T-slot
22	Round cylinders
23	Round cylinders
24	Round cylinders
25	Standard cylinders DNC, DNCB, DNCCKE
26	Drives with tie or mounting rod

Ordering data – Mounting attachments			
	For Ø	Part No.	Type
	8 ... 100	538 937	SMBR-8-8/100-S6
	8	175 091	SMBR-8-8
	10	175 092	SMBR-8-10
	12	175 093	SMBR-8-12
	16	175 094	SMBR-8-16
	20	175 095	SMBR-8-20
	25	175 096	SMBR-8-25
	32	175 097	SMBR-8-32
	40	175 098	SMBR-8-40
	50	175 099	SMBR-8-50
	63	175 100	SMBR-8-63
	32 ... 100	525 565	CRSMB-8-32/100
	32/40	175 705	SMB-8-FENG-32/40
	50/63	175 706	SMB-8-FENG-50/63
	80/100	175 707	SMB-8-FENG-80/100
	32 ... 100	537 806	SMBZ-8-32/100
	125 ... 320	537 808	SMBZ-8-125/320
	-	178 230	SMB-8E
	-	534 254	SMBK-8

Ordering data – Sensor testers		
	Part No.	Type
	158 481	SM-TEST-1

Proximity sensors SMT/SME-10F, for C-slot

Type codes

SMT/SME-10F

SMT – 10F – PS – 24V – K2,5L – OE

Function

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

Design

10F	For C-slot, insertable in slot from above
-----	---

Switching output, switching element function

PS	PNP, N/O contact, 3-wire
NS	NPN, N/O contact, 3-wire
DS	N/O contact, 3-wire
ZS	N/O contact, 2-wire (SMT)
	N/O contact, 2-wire (SME)

Rated operating voltage

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

Cable length, connection direction

K0,3L	0.3 m, in-line
K0,3Q	0.3 m, lateral
K2,5L	2.5 m, in-line
K2,5Q	2.5 m, lateral

Electrical connection

OE	Cable
M5D	Cable with plug M5x0.5
M8D	Cable with plug M8x1

Proximity sensors SMT-10F, for C-slot

Technical data – Magneto-resistive

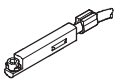
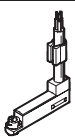
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Technical data			
Type of mounting	Clamped in C-slot, insertable from above, flush with cylinder profile ¹⁾		
Electrical connection	Cable, 3-wire	Cable with plug, rotatable thread	
		M5x0.5, 3-pin	M8x1, 3-pin
Operating voltage range DC	[V]	5 ... 30	10 ... 30
Max. output current	[mA]	200	50
Max. switching capacity DC	[W]	6.0	1.5
Protection against short circuit	Yes		
Protection against overloading	Yes		
Protection against polarity reversal	For all electrical connections		
Protection class	IP65, IP67		

1) Applies to in-line connection direction.

Operating and environmental conditions		
Ambient temperature	[°C]	-20 ... +60
Ambient temperature with flexible cable installation	[°C]	-5 ... +60
CE mark (see declaration of conformity)	To EU EMC Directive	
Certification	cULus listed (OL) C-Tick	

Materials	
Housing	Polyamide
Cable sheath	Polyurethane

Ordering data							
	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread				
			M5x0.5	M8x1			
In-line connection direction							
	N/O contact						
	PNP	3-wire	-	-	2.5	525 915	SMT-10F-PS-24V-K2,5L-OE
			-	3-pin	0.3	539 495	SMT-10F-PS-24V-K0,3L-M5D
			-	3-pin		525 916	SMT-10F-PS-24V-K0,3L-M8D
	NPN	3-wire	-	-	2.5	526 678	SMT-10F-NS-24V-K2,5L-OE
			-	3-pin	0.3	526 679	SMT-10F-NS-24V-K0,3L-M8D
Non-contacting, 2-wire	2-wire	-	-	2.5	526 677	SMT-10F-ZS-24V-K2,5L-OE	
Lateral connection direction							
	N/O contact						
	PNP	3-wire	-	-	2.5	526 674	SMT-10F-PS-24V-K2,5Q-OE
			-	3-pin	0.3	526 675	SMT-10F-PS-24V-K0,3Q-M8D
	NPN	3-wire	-	-	2.5	526 680	SMT-10F-NS-24V-K2,5Q-OE
			-	3-pin	0.3	526 681	SMT-10F-NS-24V-K0,3Q-M8D
	Non-contacting, 2-wire	2-wire	-	-	2.5	526 676	SMT-10F-ZS-24V-K2,5Q-OE

Proximity sensors SME-10F, for C-slot

Technical data – Magnetic reed

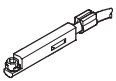
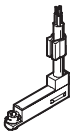
FESTO

Technical data			
Type of mounting	Clamped in C-slot, insertable from above, flush with cylinder profile ¹⁾		
Electrical connection	Cable, 3-wire	Cable with plug, rotatable thread M8x1, 3-pin	Cable, 2-wire
Operating voltage range DC	[V]	10 ... 30	5 ... 30
Operating voltage range AC	[V]	10 ... 30	5 ... 30
Max. output current	[mA]	500	100
Max. switching capacity DC	[W]	10.0	3.0
Max. switching capacity AC	[VA]	10.0	3.0
Protection against short circuit	No		
Protection against overloading	No		
Protection against polarity reversal	No		
Protection class	IP65, IP67		

1) Applies to in-line connection direction.

Operating and environmental conditions	
Ambient temperature	[°C] –20 ... +60
Ambient temperature with flexible cable installation	[°C] –5 ... +60
CE mark (see declaration of conformity)	To EU EMC Directive
Certification	cULus listed (OL)

Materials	
Housing	Polyamide
Cable sheath	Polyurethane

Ordering data							
	Switching output	Electrical connection			Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread				
			M5x0.5	M8x1			
In-line connection direction							
	N/O contact						
	Contacting, bipolar	3-wire	–	–	2.5	525 913	SME-10F-DS-24V-K2,5L-OE
		–	3-pin	–	0.3	539 494	SME-10F-DS-24V-K0,3L-M5D
		–	–	3-pin		525 914	SME-10F-DS-24V-K0,3L-M8D
	2-wire	–	–	2.5	526 672	SME-10F-ZS-24V-K2,5L-OE	
Lateral connection direction							
	N/O contact						
	Contacting, bipolar	3-wire	–	–	2.5	526 670	SME-10F-DS-24V-K2,5Q-OE
		–	–	3-pin	0.3	526 671	SME-10F-DS-24V-K0,3Q-M8D
		2-wire	–	–	2.5	526 673	SME-10F-ZS-24V-K2,5Q-OE

Proximity sensors SMT/SME-10, for C-slot

Type codes

SMT/SME-10	
SMT – 10 – PS – KL – LED – 24	
Function	
SMT	Proximity sensor, magneto-resistive
SME	Proximity sensor, magnetic reed
Design	
10	For C-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
Electrical connection, cable length, connection direction	
KL	Cable, 2.5 m, in-line
KQ	Cable, 2.5 m, lateral
SL	Plug M8x1 with cable, 0.3 m, in-line
SQ	Plug M8x1 with cable, 0.3 m, lateral
Switching status display	
LED	Yellow LED
Rated operating voltage	
24	24 V DC

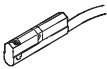
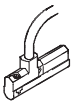
Proximity sensors SMT-10, for C-slot

Technical data – Magneto-resistive

Technical data		
Type of mounting	Clamped in C-slot, insertable in slot lengthwise	
Electrical connection	Cable, 3-wire	Cable with plug, rotatable thread M8x1, 3-pin
Operating voltage range DC	[V]	10 ... 30
Max. output current	[mA]	200
Max. switching capacity DC	[W]	6.0
Protection against short circuit	Yes	
Protection against overloading	Yes	
Protection against polarity reversal	For all electrical connections	
Protection class	IP65, IP67	

Operating and environmental conditions		
Ambient temperature	[°C]	-20 ... +60
Ambient temperature with flexible cable installation	[°C]	-5 ... +60
CE mark (see declaration of conformity)	To EU EMC Directive	
Certification	cULus listed (OL)	
	C-Tick	

Materials	
Housing	Polyamide
Cable sheath	Polyurethane

Ordering data						
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread M8x1			
In-line connection direction						
	N/O contact					
	PNP	3-wire	-	2.5	173 218	SMT-10-PS-KL-LED-24
		-	3-pin	0.3	173 220	SMT-10-PS-SL-LED-24
	NPN	3-wire	-	2.5	173 222	SMT-10-NS-KL-LED-24
-		3-pin	0.3	173 224	SMT-10-NS-SL-LED-24	
Lateral connection direction						
	N/O contact					
	PNP	3-wire	-	2.5	173 219	SMT-10-PS-KQ-LED-24
		-	3-pin	0.3	173 221	SMT-10-PS-SQ-LED-24
	NPN	3-wire	-	2.5	173 223	SMT-10-NS-KQ-LED-24
-		3-pin	0.3	173 225	SMT-10-NS-SQ-LED-24	

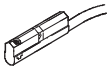

Proximity sensors SMT-10, for C-slot

Technical data – Magnetic reed

Technical data		
Type of mounting	Clamped in C-slot, insertable in slot lengthwise	
Electrical connection	Cable, 3-wire	Cable with plug, rotatable thread M8x1, 3-pin
Operating voltage range DC	[V]	12 ... 27
Operating voltage range AC	[V]	12 ... 27
Max. output current	[mA]	100
Max. switching capacity DC	[W]	1.0
Max. switching capacity AC	[VA]	1.0
Protection against short circuit	No	
Protection against overloading	No	
Protection against polarity reversal	No	
Protection class	IP65, IP67	

Operating and environmental conditions		
Ambient temperature	[°C]	-20 ... +70
Ambient temperature with flexible cable installation	[°C]	-5 ... +70
CE mark (see declaration of conformity)	To EU EMC Directive	

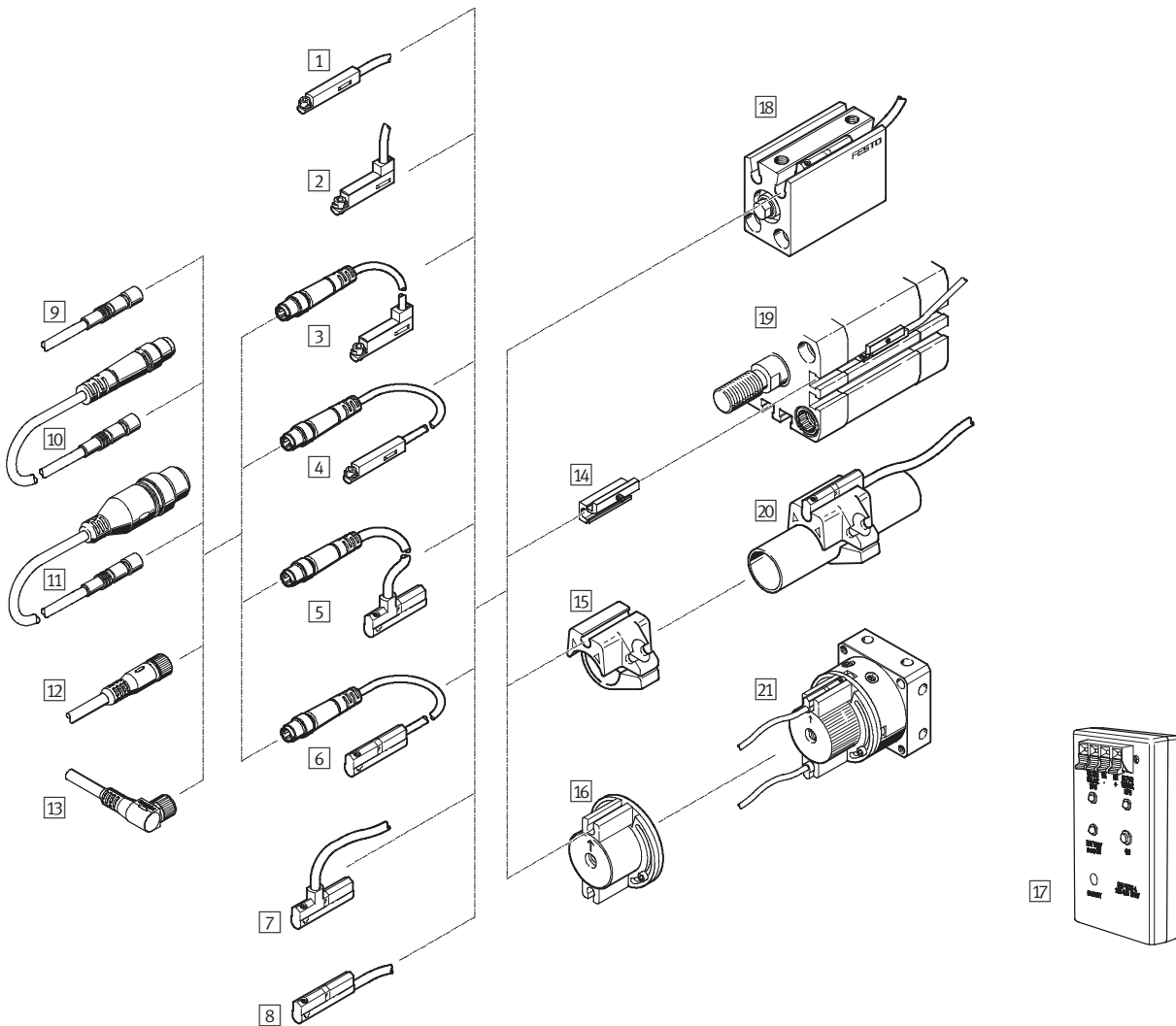
Materials	
Housing	Polyphenylene sulphide
Cable sheath	Polyurethane

Ordering data						
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread M8x1			
In-line connection direction						
	N/O contact					
	Contacting, bipolar	3-wire	-	2.5	173 210	SME-10-KL-LED-24
-		3-pin	0.3	173 212	SME-10-SL-LED-24	
Lateral connection direction						
	N/O contact					
	Contacting, bipolar	3-wire	-	2.5	173 211	SME-10-KQ-LED-24
-		3-pin	0.3	173 213	SME-10-SQ-LED-24	

Proximity sensors SMT/SME-10, for C-slot

Peripherals overview

FESTO



Mounting attachments and accessories	
Proximity sensors	
1	SM...-10F-...-K2,5L-OE, with cable
2	SM...-10F-...-K2,5Q-OE, with cable
3	SM...-10F-...-K0,3Q-M..., with cable and plug
4	SM...-10F-...-K0,3L-M..., with cable and plug
5	SM...-10-SQ-..., with cable and plug
6	SM...-10-SL-..., with cable and plug
7	SM...-10-KQ-..., with cable
8	SM...-10-KL-..., with cable
Connecting cables	
9	Connecting cable NEBU-M5...-5-Q3-LE3
10	Connecting cable NEBU-M5...-1-Q3-M8G3
11	Connecting cable NEBU-M5...-1-Q3-M12G4
12	Connecting cable NEBU-M8G3
13	Connecting cable NEBU-M8W3

Mounting attachments and accessories	
Mounting kits and accessories	
14	Mounting kit SMBN-10
15	Mounting kit SMBR-10-...
16	Mounting kit WSM-...-SME-10
17	Sensor tester SM-TEST-1
-	Clip SMBK-10
Drives	
18	Drives with C-slot
19	Drives with T-slot
20	Round cylinders
21	Swivel module DSM

Proximity sensors SMT/SME-10, for C-slot

Accessories



Ordering data – Connecting cables				Technical data → Internet: nebu	
	Number of wires	Cable length [m]	Part No.	Type	
M5x0.5, straight socket					
	3	2.5	539 508	NEBU-M5G4-K-5-Q3-LE3	
		1.0	539 510	NEBU-M5G4-K-1-Q3-M8G3	
	4	1.0	539 512	NEBU-M5G4-K-1-Q3-M12G4	
M8x1, straight socket					
	3	2.5	541 333	NEBU-M8G3-K-2.5-LE3	
		5	541 334	NEBU-M8G3-K-5-LE3	
M8x1, angled socket					
	3	2.5	541 338	NEBU-M8W3-K-2.5-LE3	
		5	541 341	NEBU-M8W3-K-5-LE3	

Ordering data – Inscription labels, safety clips				
	Size	Part No.	Type	PU ¹⁾
	23x4 mm	541 598	ASLR-L-423	34
	M8	548 067	NEAU-M8-GD	1
	M12	548 068	NEAU-M12-GD	1

1) Packaging unit per frame.

Ordering data – Mounting attachments			
	For Ø	Part No.	Type
	6	173 205	WSM-6-SME-10
	8	173 206	WSM-8-SME-10
	10	173 207	WSM-10-SME-10
	6	173 226	SMBR-10-6
	8	175 101	SMBR-10-8
	10	173 227	SMBR-10-10
	12	175 102	SMBR-10-12
	16	173 228	SMBR-10-16
	20	175 103	SMBR-10-20
	25	175 104	SMBR-10-25
	32	175 105	SMBR-10-32
	40	175 106	SMBR-10-40
	50	175 107	SMBR-10-50
	63	175 108	SMBR-10-63
	125 ... 320	537 809	SMBN-10
	–	234 255	SMBK-10

Ordering data – Sensor testers		
	Part No.	Type
	158 481	SM-TEST-1