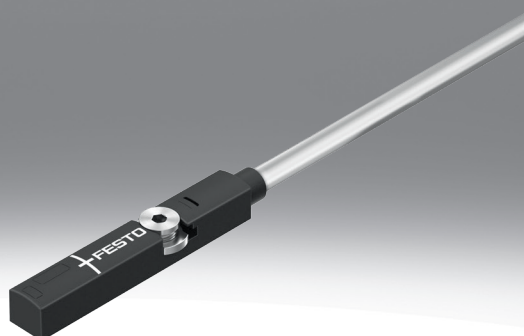


Proximity switch SME-8M

FESTO



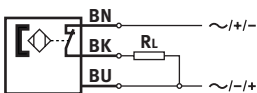
Characteristics

At a glance

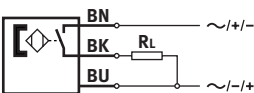
- Measuring principle: Magnetic reed
- LED switching status indication
- Cable length 0 to 3 m, 2 to 5 m, 5 m, 7.5 m, 0.2 ... 10 m

Switching output

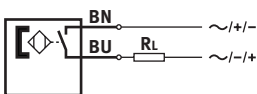
[DO] 3-wire N/C contact



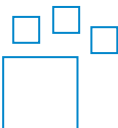
[DS] 3-wire N/O contact



[ZS] Normally open contact, 2-wire



Ordering data - modular system



Configurable product

This product and all its product options can be ordered online via the configurator.

Type code

001	Series	
SME	Proximity sensor	
002	Design type	
8	For T-slot	
003	Sensor version	
M	Inserted in the slot from above	
004	Switching output	
DO	3-wire N/C contact	
DS	3-wire N/O contact	
ZS	Normally open contact, 2-wire	
005	Rated operating voltage	
	None	
24V	24 V	

006	Cable characteristic	
E	Suitable for energy chains/robots	
K	Standard/suitable for energy chains	
007	Cable length [m]	
	0.2 ... 10 m	
0,3	0.3 m	
2,5	2.5 m	
5,0	5.0 m	
7,5	7.5 m	
008	Connection technology	
OE	Open end	
M8	M8, snap-on flange	
M8D	M8, rotatable thread	
M12	M12, rotatable thread	

Datasheet

General technical data

Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104	Open end
Approval	RCM trademark, c UL us listed (OL)	
CE mark (see declaration of conformity) ¹⁾	To EU EMC Directive, In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity) ²⁾	To UK instructions for EMC, To UK RoHS instructions	
Special characteristics	Oil resistant	
Note on materials	RoHS-compliant	
Instructions on use	https://www.festo.com/Drive-Sensor-Overview	
LABS (PWIS) conformity	VDMA24364-B2-L	
Corrosion resistance class CRC ³⁾	2 - Moderate corrosion stress	3 - high corrosion stress
Degree of protection	IP65, IP68	

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/smt → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light industrial environments, further measures for reducing the emitted interference may be necessary.

2) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/smt → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light industrial environments, further measures for reducing the emitted interference may be necessary.

3) More information www.festo.com/x/topic/kbk

Input signal/measuring element

Measuring principle	Magnetic reed
Ambient temperature	-40 ... 70°C
Ambient temperature with moving cable	-5 ... 70°C

Switching output

Switching output	3-wire N/C contact [DO]	3-wire N/O contact [DS]	Normally open contact, 2-wire [ZS]
Switching element function	N/C contact	N/O contact	
Switching output	Contacting, bipolar		
Voltage drop	4.25 V	1.17 ... 2.25 V	4.8 V
Max. output current	80 mA	500 mA	80 mA
Max. output current using mounting kits	80 mA		
Max. switching capacity AC	2.4 VA	10 VA	2.4 VA
Max. switching capacity DC	2.4 W	10 W	2.4 W
Max. switching capacity DC using mounting kits	2.4 W		
Max. switching capacity AC using mounting kits	2.4 VA		

Output, additional data

Short circuit current rating	no
Overload protection	Not available

Electronics

Switching output	Contacting, bipolar
Operational voltage range DC	5 ... 30 V
Operational voltage range AC	5 ... 30 V
Reverse polarity protection	no

Datasheet

Electromechanics

Connection technology	Open end [OE], M8, snap-on flange [M8], M8, rotatable thread [M8D], M12, rotatable thread [M12]	Open end [OE]	M8, rotatable thread [M8D]
Electrical connection 1, connection type	Cable, Cable with plug	Cable	Cable with plug
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101, M8x1, A-coded, to EN 61076-2-104, Open end	Open end	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	2, 3		3
Electrical connection 1, type of mounting	Snap-locking, Screw-type lock, Rotatable, Not rotatable	–	Screw-type lock, Rotatable
Electrical connection 1, compatible type of mounting	Compatible with latching lock, Compatible with rotatable screw-type lock, Compatible with rotatable/non-rotatable screw-type lock	–	Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	In-line		
Test conditions cable	Bending strength: to Festo standard, Test conditions on request, Energy chain: > 5 million cycles, bending radius 75 mm		
Cable length	0.2 ... 10 m	2.5 ... 7.5 m	0.3 m
Cable characteristic	Standard/suitable for energy chains		

Mechanics

Type of mounting	Screw-clamped, Insertable in the slot from above
Material housing	PA, High-alloy stainless steel
Material cable sheath	TPE-U(PUR)
Material electrical contact	Gold-plated copper alloy
Material connector housing	TPE-U(PU)
Material screw-type lock	Nickel-plated brass

Display/operation

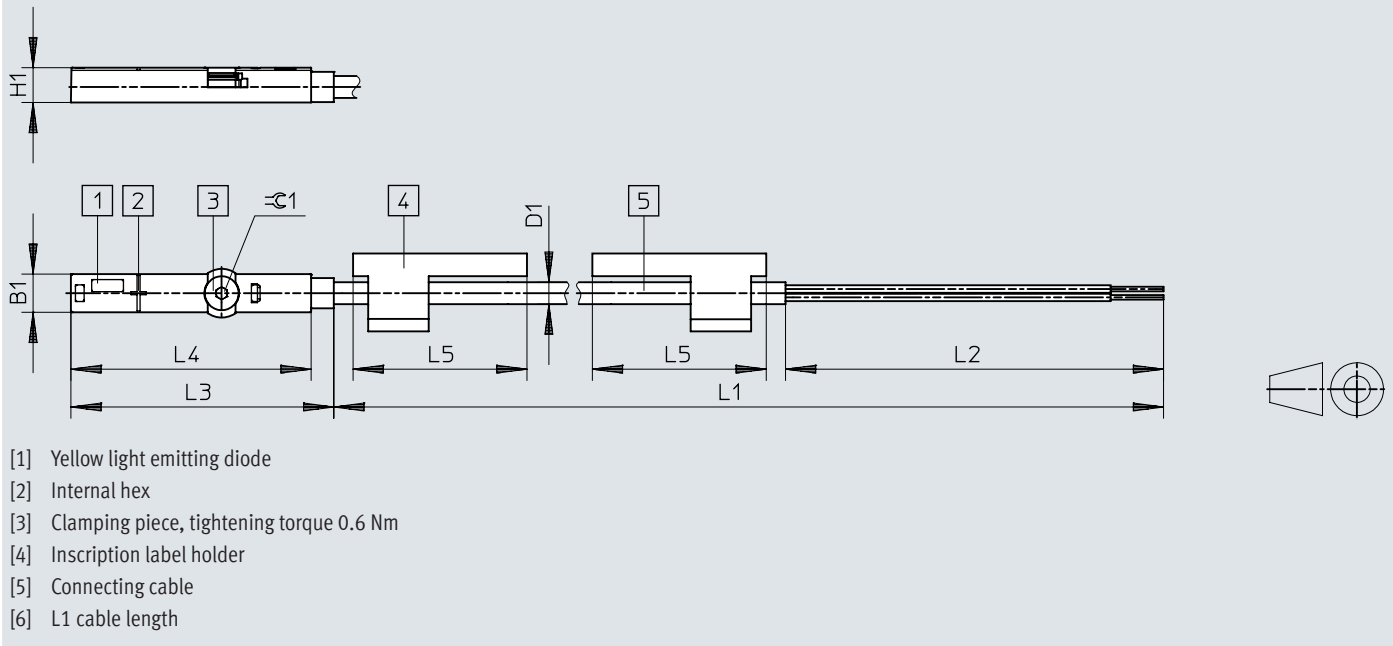
Switching status indication	Yellow LED
-----------------------------	------------

Immission/emission

Ambient temperature with moving cable	-5 ... 70°C
Degree of protection	IP65, IP68

Dimensions

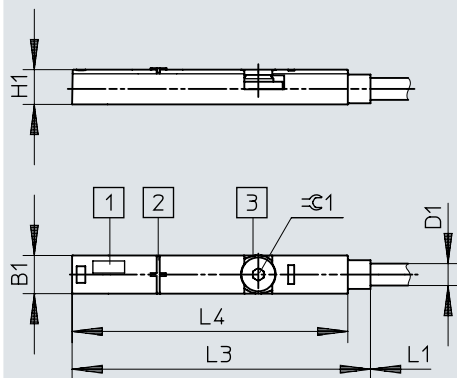
Dimensions – SME-8M-...-OE – Cable Download CAD data www.festo.com



	B1 ±0,05	D1 Ø	H1 ±0,05	L2	L3	L4 ±0,1	L5	⌀ 1
SME-8M-...-OE	5	2,9	4,6	50	34,8	31,8	23	1,5

Dimensions

Dimensions – SME-8M-DO-...-OE – Cable

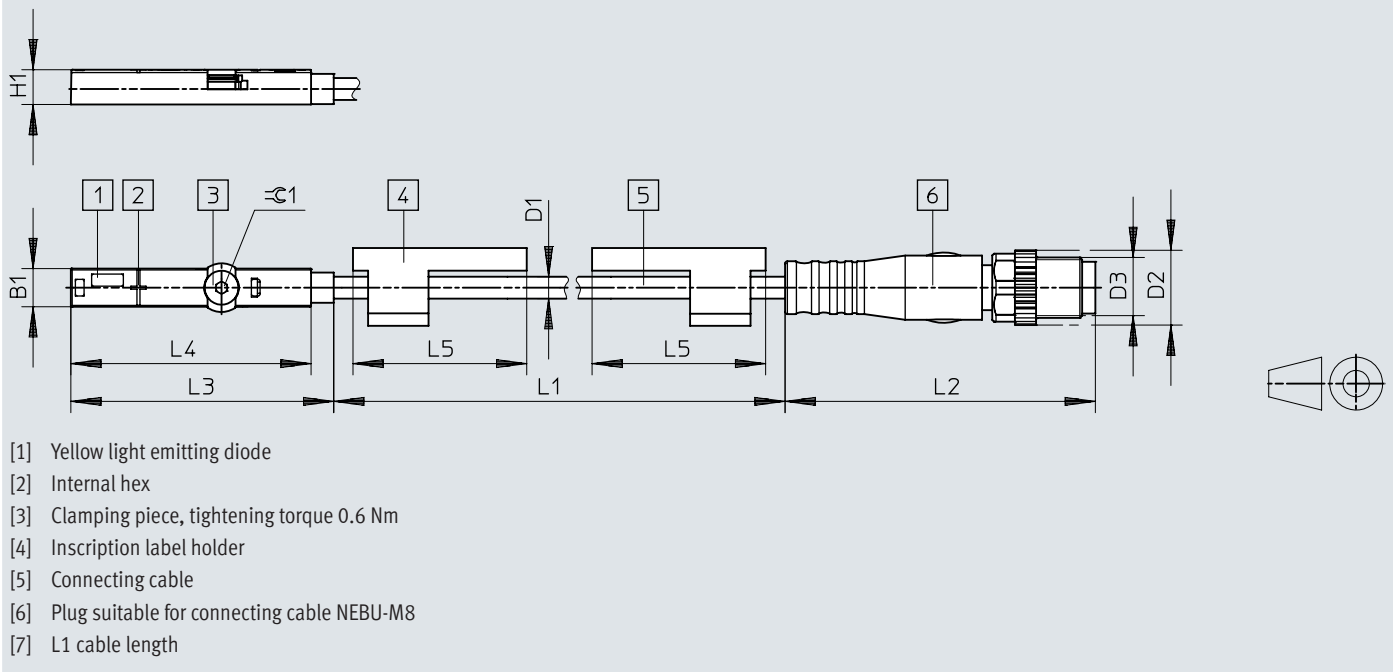
[Download CAD data](#) www.festo.com


- [1] Light emitting diode
- [2] Internal hex
- [3] Clamping piece, tightening torque 0.6 Nm
- [4] L1 cable length

	B1 ±0,05	D1 Ø	H1 ±0,05	L3	L4 ±0,1	≈ 1
SME-8M-DO-...-OE	5	2,9	4,6	39,5	36,5	1,5

Dimensions

Dimensions – SME-8M-...-M8D – Cable with plug M8x1, rotatable thread Download CAD data www.festo.com

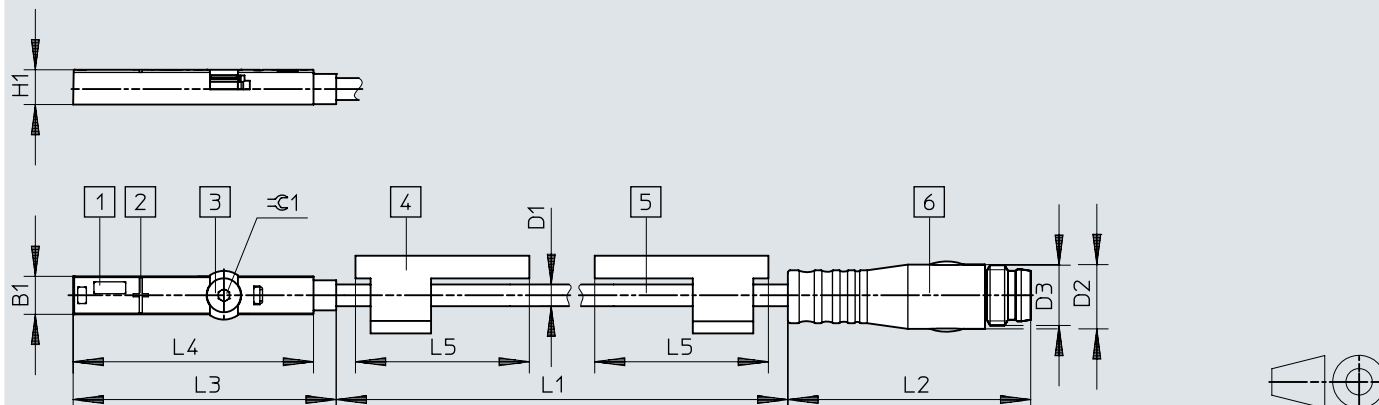


	B1 ±0,05	D1 Ø	D2 Ø	D3	H1 ±0,05	L2	L3	L4 ±0,1	L5	≡ 1
SME-8M-...-M8D	5	2,9	9,6	M8x1	4,6	41,1	34,8	31,8	23	1,5

Dimensions

Dimensions – SME-8M-...-M8 – Cable with M8x1 plug, snap collar

Download CAD data www.festo.com

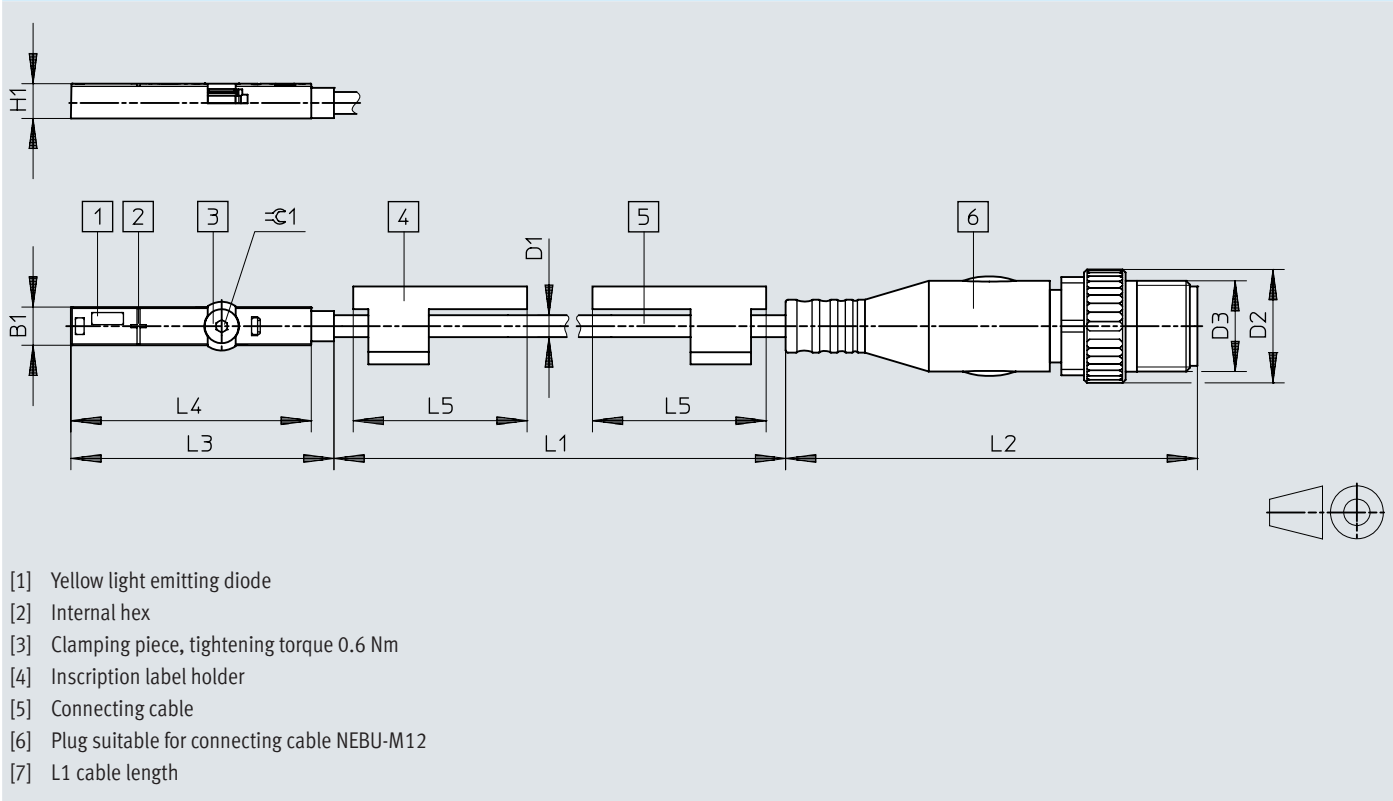


- [1] Yellow light emitting diode
- [2] Internal hex
- [3] Clamping piece, tightening torque 0.6 Nm
- [4] Inscription label holder
- [5] Connecting cable
- [6] Plug suitable for connecting cable NEBU-M8
- [7] L1 cable length

	B1 ±0,05	D1 Ø	D2 Ø	D3	H1 ±0,05	L2	L3	L4 ±0,1	L5	±0.1
SME-8M-...-M8	5	2,9	8,5	M8x1	4,6	32,7	34,8	31,8	23	1,5

Dimensions

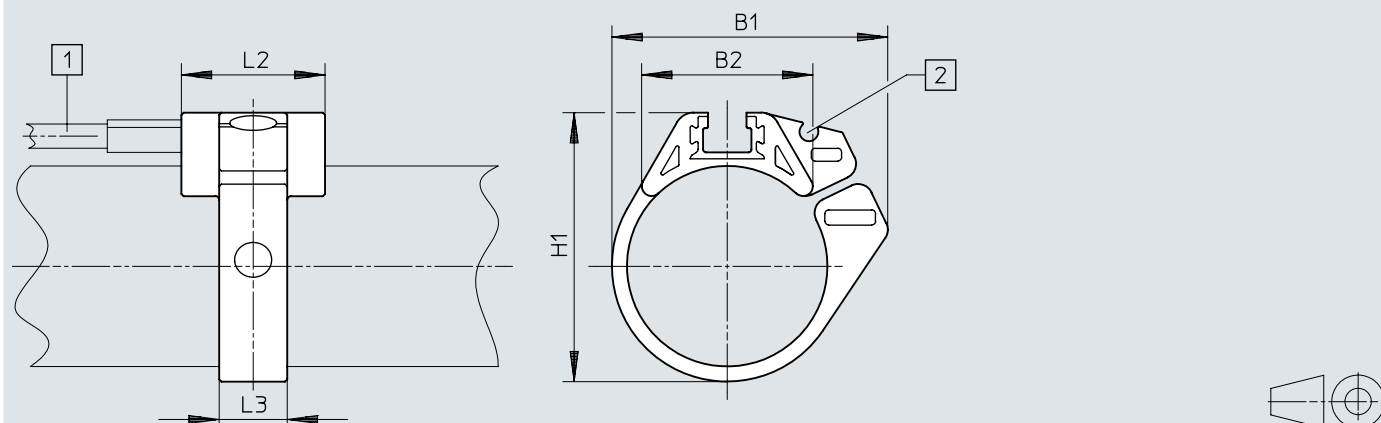
Dimensions – SME-8M-...-M12 – Cable with plug M12x1, rotatable thread Download CAD data www.festo.com



	B1	D1 Ø	D2	D3	H1	L2	L3	L4	L5	≈ 1
SME-8M-...-M12	5	2,9	15	M12x1	4,6	54,5	34,8	31,8	23	1,5

Dimensions

Dimensions – Mounting kit SMBR

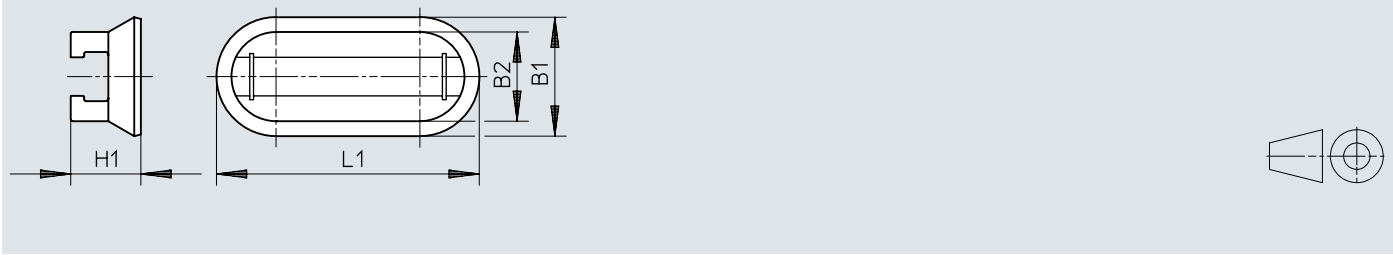
[Download CAD data](#) www.festo.com


- [1] Proximity switches SME-8- ..., SMT-8- ...
 [2] Guide slot for switch cable

	B1	B2	H1	L2	L3
SMBR-8-8	18,9	12,3	17,5	19	7
SMBR-8-10	20,4	13,7	19,9	19	7
SMBR-8-12	22,7	14,3	21,9	19	7
SMBR-8-16	28,2	16,9	25,7	19	8
SMBR-8-20	34,5	20,8	30,4	19	9
SMBR-8-25	36,7	22,7	35,6	19	9
SMBR-8-32	41,7	24,6	42,7	19	9
SMBR-8-40	47,1	26,5	50,7	19	9
SMBR-8-50	56,4	28,6	61,5	19	9
SMBR-8-63	69,4	32	74,5	19	9

Dimensions

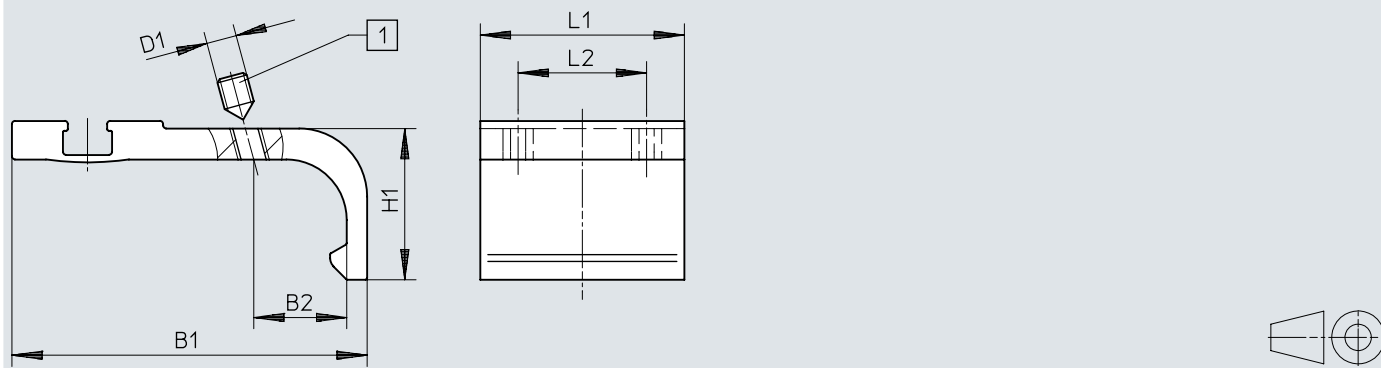
Dimensions – Mounting kit CRSMB [Download CAD data](http://www.festo.com) www.festo.com



	B1	B2	H1	L1
CRSMB-8-32/100	15,8	11,8	9,3	35

Dimensions

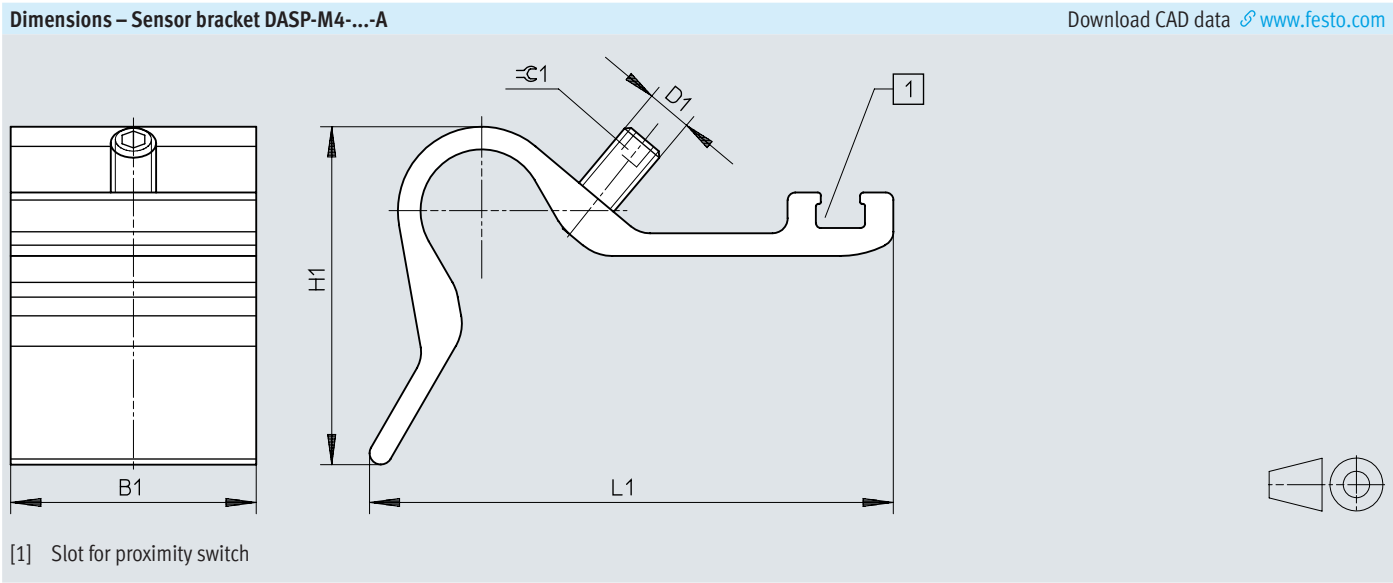
Dimensions – Mounting kit SMB-8-FENG

[Download CAD data](#) www.festo.com


[1] Threaded pin

	B1	B2	D1	H1	L1	L2
SMB-8-FENG-32/40	35,1	8,7	M3	15,5	27	17
SMB-8-FENG-50/63	47	12,3	M4	20	27	17
SMB-8-FENG-80/100	64,3	15,7	M5	24,3	27	17

Dimensions

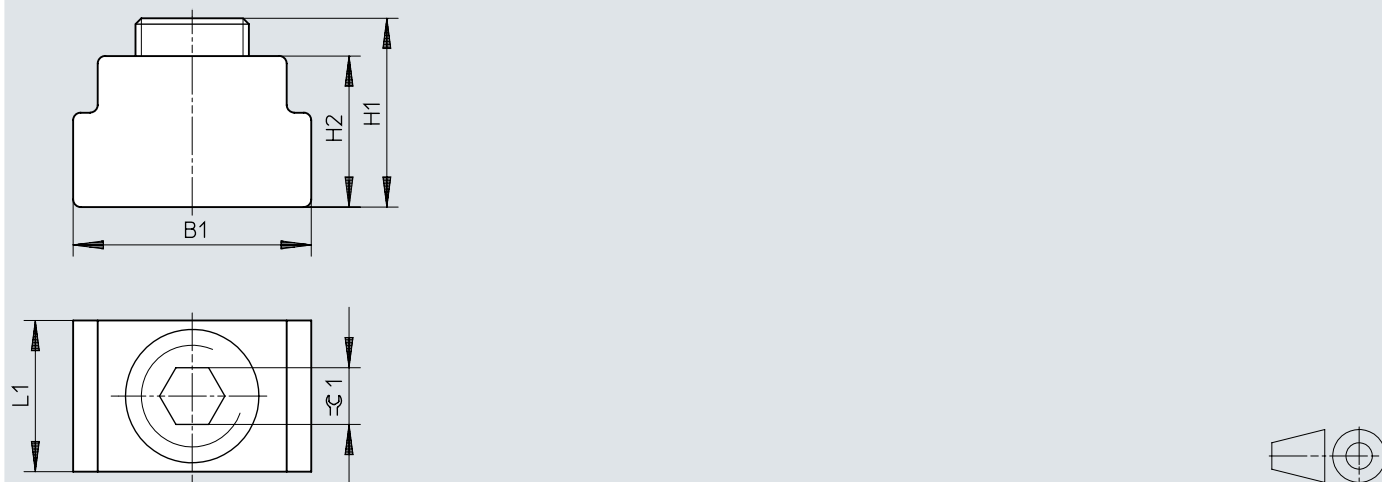


	B1	D1	H1	L1	± 0.1
DASP-M4-125-A	32,5	M5	28	45,4	2,5
DASP-M4-160-A	32,5	M6	44,7	69,4	3
DASP-M4-250-A	32,5	M6	56,3	88	3
DASP-M4-320-A	32,5	M6	56,3	88	3

Dimensions

Dimensions – Positioning element SMM

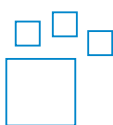
Download CAD data www.festo.com



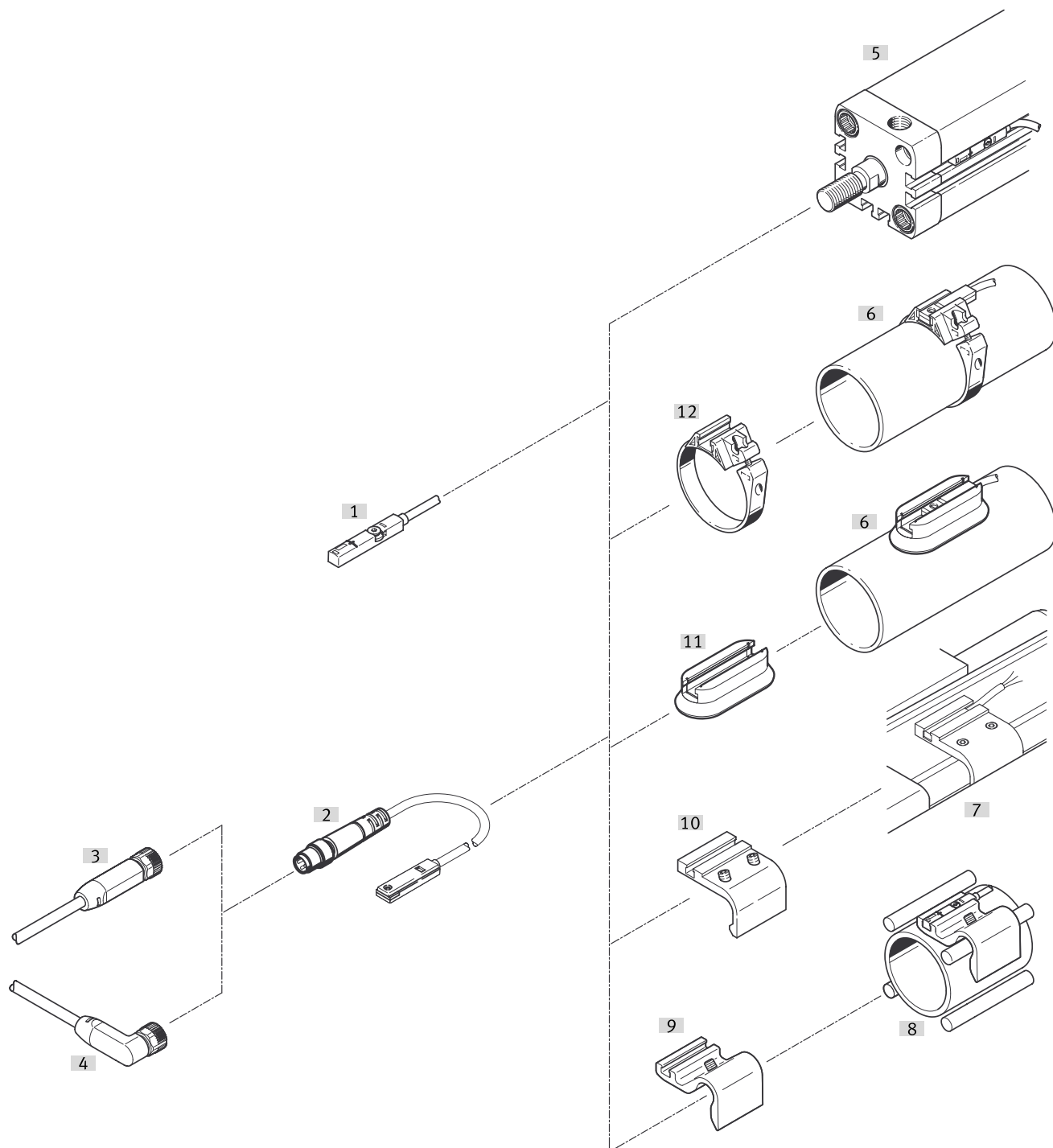
	B1	H1	H2	L1	$\varnothing 1$
SMM-8	6,3	5,0	4,0	4,0	1,5

Ordering data

Ordering data					
	Electrical connection 1, connector system	Cable length	Product weight	Part no.	Type
	M8x1, A-coded, to EN 61076-2-104	0.3 m	8.9 g	543861	SME-8M-DS-24V-K-0,3-M8D
	Open end	2.5 m	26.3 g	543872	SME-8M-ZS-24V-K-2,5-OE
			29.8 g	543862	SME-8M-DS-24V-K-2,5-OE
		5 m	58.3 g	543863	SME-8M-DS-24V-K-5,0-OE
		7.5 m	86.8 g	543876	SME-8M-DS-24V-K-7,5-OE
			87.1 g	546799	SME-8M-DO-24V-K-7,5-OE

Modular product system – ordering information					
	Electrical connection 1, connector system	Cable length	Product weight	Part no.	Type
	M12x1, A-coded to EN 61076-2-101, M8x1, A-coded, to EN 61076-2-104, Open end	0.2 ... 10 m	8.9 ... 87.1 g	543892	SME-8M-...-

Peripherals



Accessories			→ Link
Type/order code	Description		
[1] SME-8-K-...	With cable		sme-8
[2] SME-8-K-LED-230	Operating voltage range up to 230V direct current/AC		sme-8
[3] NEBA-M...G...	Straight socket		19
[4] NEBA-M...W...	Angled socket		20
[5] Drives with T-slot	–		–
[6] Round cylinder	–		–
[7] Mounting kit SMBR	–		–
[8] Drives with tie rod or mounting rod	–		–
[9] Sensor bracket DASP-M4	–		19

Peripherals

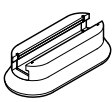
Accessories		→ Link
Type/order code	Description	
[10] Mounting kit SMB-8-FENG	–	19
[11] Mounting kit CRSMB	Corrosion resistant	19
[12]		19

Accessories

Mounting kit SMBR

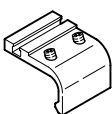
	Material retaining bracket	Material profile	Ambient temperature	Corrosion resistance class CRC	Part no.	Type
	POM	Wrought aluminium alloy	-20 ... 70 °C	2 - Moderate corrosion stress	175096	SMBR-8-25
					175092	SMBR-8-10
					175099	SMBR-8-50
					175091	SMBR-8-8
					175098	SMBR-8-40
					175094	SMBR-8-16
					175095	SMBR-8-20
					175100	SMBR-8-63
					175093	SMBR-8-12
					175097	SMBR-8-32

Mounting kit CRSMB

	For piston diameter	Ambient temperature	Corrosion resistance class CRC ¹⁾	Part no.	Type
	Ø32 - Ø100	-40 ... 90 °C	4 - Very high corrosion stress	525565	CRSMB-8-32/100

1) More information www.festo.com/x/topic/kbk

Mounting kit SMB-8-FENG

	Size	Note on materials	LABS (PWIS) conformity	Part no.	Type
	8	RoHS-compliant	VDMA24364-B2-L	175706	SMB-8-FENG-50/63
				175707	SMB-8-FENG-80/100
				175705	SMB-8-FENG-32/40

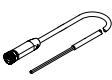
Positioning element SMM

	Material housing	Type of mounting	Ambient temperature	Corrosion resistance class CRC	Part no.	Type
	Wrought aluminium alloy, Anodised	Clamped in T-slot, Insertable in the slot lengthwise	-40 ... 120 °C	3 - high corrosion stress	547941	SMM-8

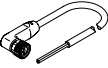
Sensor bracket DASP-M4-...-A

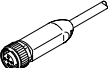
	Tightening torque	Material housing	Corrosion resistance class CRC	Product weight	Part no.	Type
	0.6 ... 1 Nm	Wrought aluminium alloy, Anodised	3 - high corrosion stress	26.5 g	1451483	DASP-M4-125-A
				41.5 g	1553813	DASP-M4-160-A
				60 g	3015256	DASP-M4-320-A
					1456781	DASP-M4-250-A

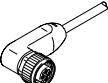
Connecting cables socket M8x1, 3-pin, straight socket

	Electrical connection 1, number of connections/cores	Electrical connection 1, connector system	Cable length	Part no.	Type
	3	M8x1, A-coded, to EN 61076-2-104	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
			5 m	8078224	NEBA-M8G3-U-5-N-LE3

Accessories

Connecting cables socket M8x1, 3-pin, angled plug socket					
	Electrical connection 1, number of connections/ cores	Electrical connection 1, connector system	Cable length	Part no.	Type
	3	M8x1, A-coded, to EN 61076-2-104	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
			5 m	8078231	NEBA-M8W3-U-5-N-LE3

Connecting cables socket M12x1, 5-pin, straight socket					
	Electrical connection 1, number of connections/ cores	Electrical connection 1, connector system	Cable length	Part no.	Type
	5	M12x1, A-coded to EN 61076-2-101	2.5 m	8078236	NEBA-M12G5-U-2.5-N-LE3
			5 m	8078237	NEBA-M12G5-U-5-N-LE3

Connecting cables socket M12x1, 5-pin, angled plug socket					
	Electrical connection 1, number of connections/ cores	Electrical connection 1, connector system	Cable length	Part no.	Type
	5	M12x1, A-coded to EN 61076-2-101	2.5 m	8078245	NEBA-M12W5-U-2.5-N-LE3

Mounting components				
	Type of mounting	Size of pack	Part no.	Type
	Clamped in T-slot	10	534254	SMBK-8

Inscription labels			
	Material label	Part no.	Type
	PC	541598	ASLR-L-423