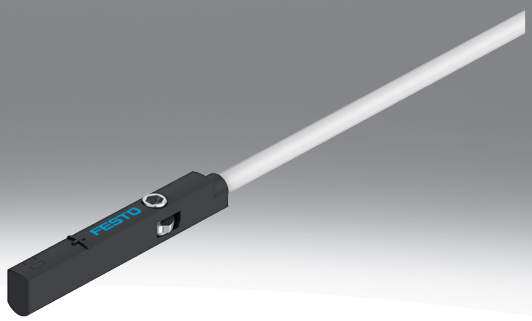
Proximity switch SME-10M



Type code

001	Series	
SME	Proximity sensor	

002	Design type	
10	For round slot	

003	Sensor version	
M	Inserted in the slot from above	

004	Switching output	
DS	3-wire N/O contact	
ZS	2-wire N/O contact	

005	Rated operating voltage	
24	24 V DC	

006	Cable characteristic	
	None	
E	Suitable for energy chains/robots	

007	Cable length [m]	
	0.2 ... 10 m	
0,3	0.3 m	
2,5	2.5 m	

008	Display	
L	LED	

009	Cable outlet	
L	Longitudinal	

010	Cable identification	
	With label holder	
N	Without label holder	

011	Connection technology	
OE	Open end	
M8	M8, snap-on flange	
M8D	M8, rotatable thread	
M12	M12, rotatable thread	

Datasheet

General technical data	
Design	For C-slot
Mounting position	Any
Conforms to standard	EN 60947-5-2
Approval	RCM
Instructions on use	https://www.festo.com/Drive-Sensor-Overview
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC, To UK RoHS instructions
Note on materials	RoHS compliant Free of halogen
LABS (PWIS) conformity	VDMA24364-B2-L

Input signal/measuring element	
Measured variable	Position
Measuring principle	Magnetic reed
Ambient temperature	-40 ... 70°C

Switching output		
Switching output	3-wire N/O contact [DS]	2-wire N/O contact [ZS]
Switching output	Contacting, bipolar	
Switching element function	N/O contact	
Repetition accuracy	0.2 mm	
Switch-on time	≤1.2 ms	
Switch-off time	≤1 ms	
Max. output current	300 mA	100 mA
Max. switching frequency	50 Hz	
Max. switching capacity DC	9 W	3 W
Voltage drop	≤1.5 V	≤4.5 V

Output, further data	
Short circuit current rating	No
Overload protection	No

Electronics	
Operational voltage range DC	5 ... 30 V
Operational voltage range AC	5 ... 30 V
Reverse polarity protection	Bipolar, No
Switching status indication	Yellow LED

Electromechanics			
Electrical connection 1, connection type	Cable		Cable with plug
Switching output	3-wire N/O contact [DS]	2-wire N/O contact [ZS]	3-wire N/O contact [DS]
Electrical connection 1, function	Switching output, Power supply	Switching output	Switching output, Power supply
Electrical connection 1, number of connections/cores	3	2	3
Electrical connection 1, used connections/cores	3	2	3
Connection outlet orientation	In-line		
Cable length	2.5 m		0.3 m
Material cable sheath	TPE-U(PUR)		
Electrical connection 1, connector system	Open end		M8x1, A-coded, to EN 61076-2-104

Datasheet

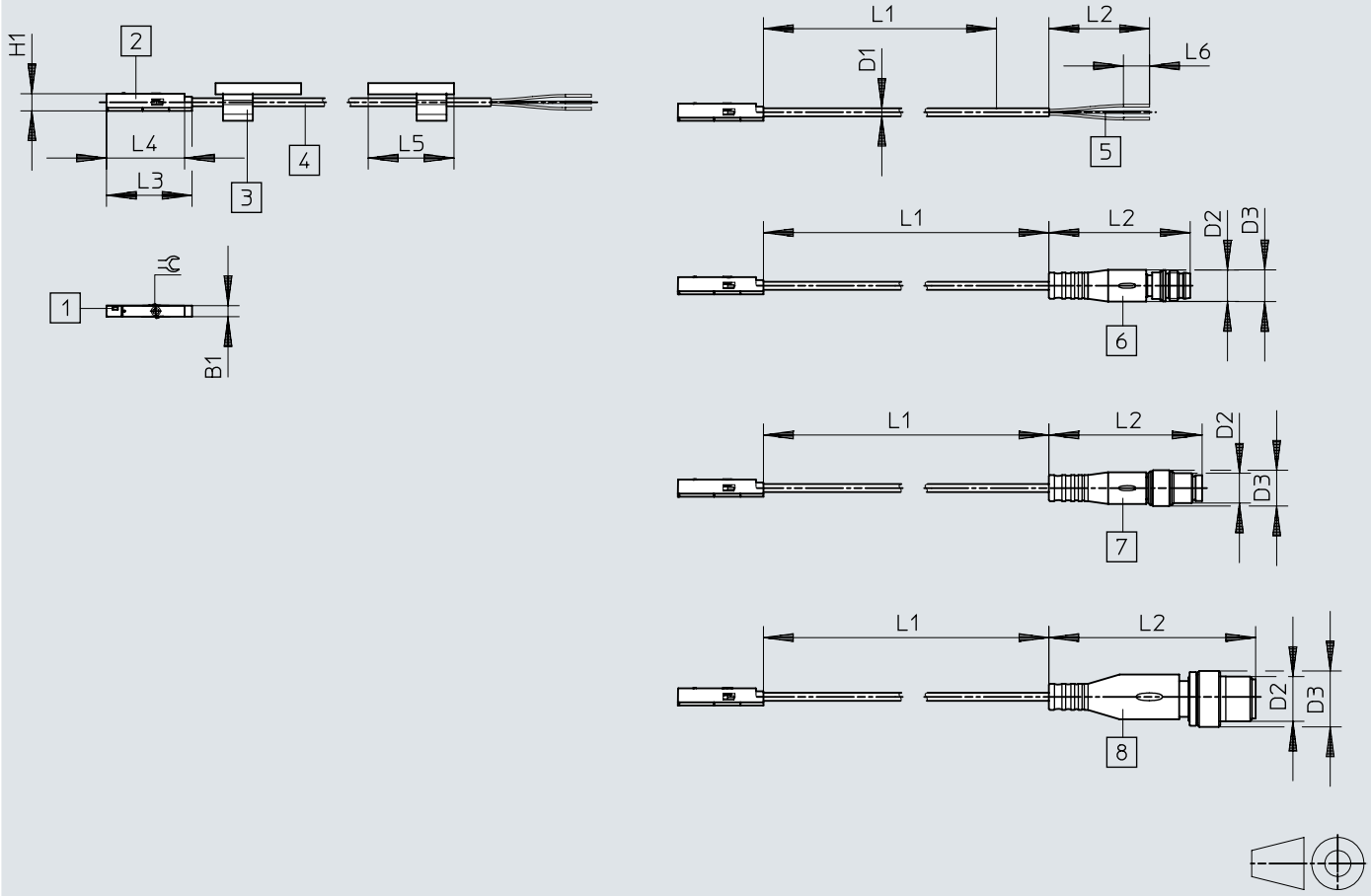
Mechanics		
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104	Open end
Electrical connection 1, type of mounting	Screw-type lock, Rotatable	–
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock	–
Type of mounting	Screw-clamped, Insertable in the slot from above	
Material housing	Reinforced PA High-alloy stainless steel	
Corrosion resistance class CRC	2 - Moderate corrosion stress	

Display/operation	
Switching status indication	Yellow LED

Immission/emission	
Ambient temperature with moving cable	-20 ... 70°C
Degree of protection	IP65, IP68
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

Dimensions

Dimensions – SME-10M-...-L, connection outlet direction lengthways Download CAD data www.festo.com

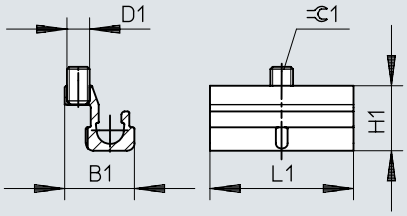


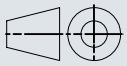
[1] Yellow light emitting diode
[2] SME-10M
[3] Inscription label holder
[4] Connecting cables
[5] Cable open end
[6] Plug M8x1, snap collar
[7] Plug M8x1, rotatable thread
[8] Plug M12x1
[9] L1 cable length

	B1	D1	D2	D3	H1	L2	L3	L4	L5	L6	L7	⫧
SME-10M-...-OE	3	2,15	–	–	4,6	50	26,6	24,6	23	50	7	1,5
SME-10M-...-M8D			M8x1	8,5		32,7					–	
SME-10M-...-M8			M8x1	9,6		41,1					–	
SME-10M-...-M12			M12x1	15		55,5					–	

Dimensions

Dimensions – Mounting SMBN-10 Download CAD data www.festo.com

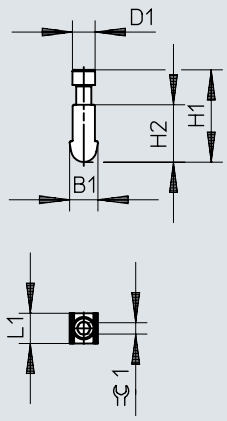


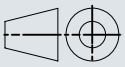


	D1	B1	H1	L1	⌀C1
SMBN-10	M3	9,3	8,6	19	1,5

Dimensions

Dimensions – Positioning element SMM Download CAD data www.festo.com





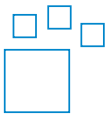
	B1	D1	H1	H2	L1	⌀1
SMM-10	3,75	3,0	12,23	7,6	4,0	1,5

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	6.7 g	**551367**	**SME-10M-DS-24V-E-0,3-L-M8D**
Open end	2.5 m	14.6 g	**551369**	**SME-10M-ZS-24V-E-2,5-L-OE**
		16.8 g	**551365**	**SME-10M-DS-24V-E-2,5-L-OE**

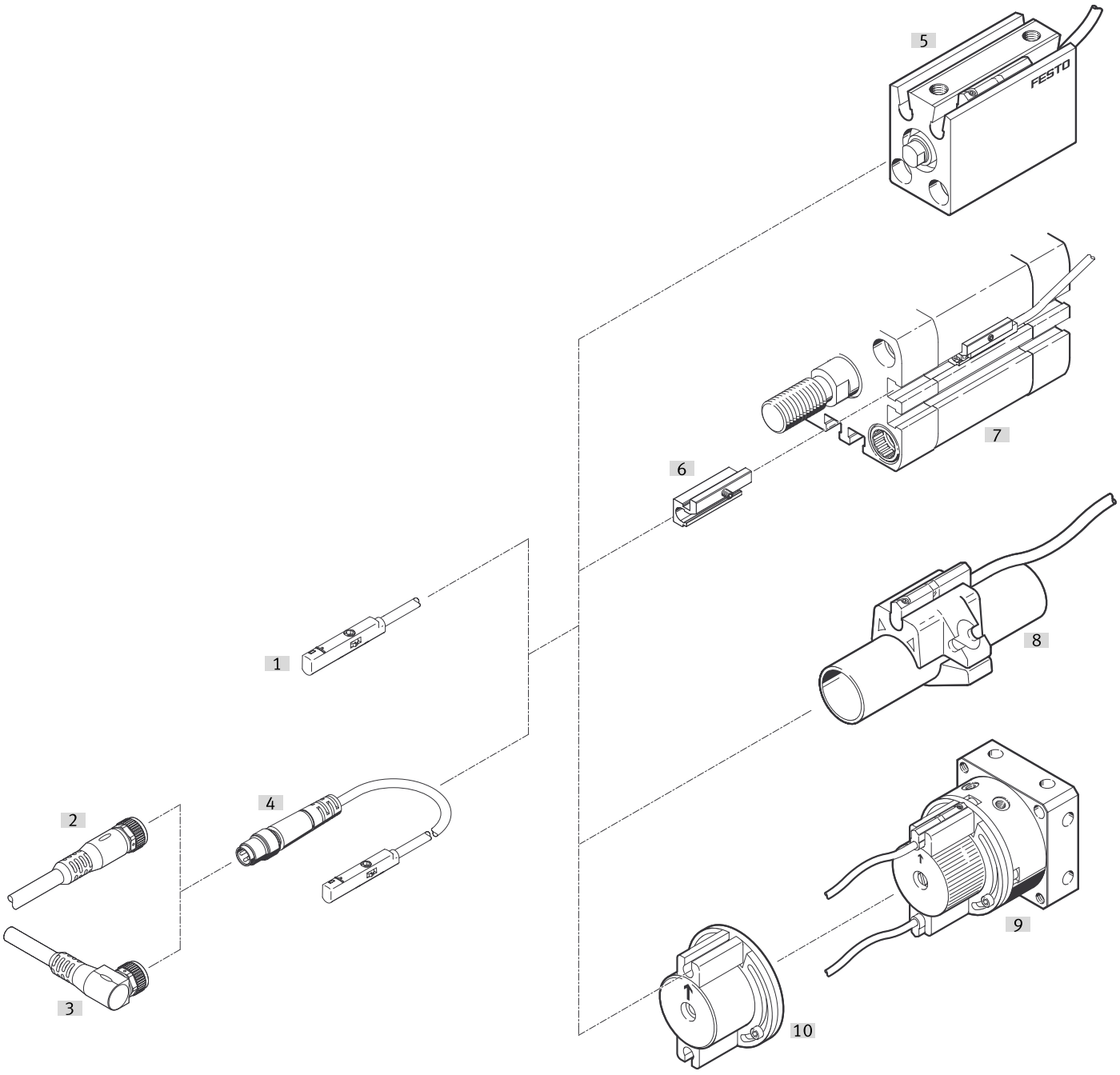
Modular product system – ordering information



Design	Switching output	Switching element function	Part no.	Type
For C-slot	Contacting, bipolar	N/O contact	**551364**	**SME-10M**

Peripherals

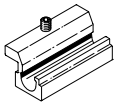
Peripherals overview



Accessories			→ Link
	Type/order code	Description	
[1]	Proximity switch SMT-10G-...-OE	Can be inserted into the slot from above, flush with the cylinder profile, with cable	sme-10
[2]	Connecting cable NEBA-M8	Straight socket	10
[3]	Connecting cable NEBA-M8	Angled socket	10
[4]	Proximity switch SMT-10G-...-M...	Can be inserted into the slot from above, flush with the cylinder profile, with cable and plug	sme-10
[5]	Drives with round slot	–	–
[6]	Mounting kit SMBN-10	For mounting proximity switches on drives with T-slot	10
[7]	Drives with T-slot	–	–
[8]	Round cylinder	–	–
[9]	Semi-rotary drive DSM	–	dsm
[10]	Mounting kit WSM-...-SME-10	Mounting kit for mounting proximity switches on semi-rotary drive DSM	10

Accessories

Mounting SMBN-10

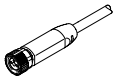


Size	Design	Material housing	Part no.	Type
10	For T-slot	Wrought aluminium alloy, anodised	**537809**	**SMBN-10**

Positioning element SMM

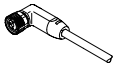
Size	Design	Material housing	Part no.	Type
10	For C-slot	Wrought aluminium alloy, anodised	**547942**	**SMM-10**

Connecting cable M8x1, straight socket



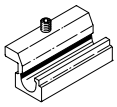
Cable structure	Cable length	Product weight	Part no.	Type
3 x 0.25 mm²	2.5 m	50 g	**8078223**	**NEBA-M8G3-U-2.5-N-LE3**
	5 m	96 g	**8078224**	**NEBA-M8G3-U-5-N-LE3**

Connecting cable M8x1, angled socket



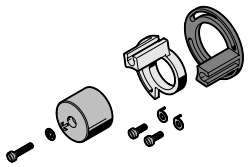
Cable structure	Cable length	Product weight	Part no.	Type
3 x 0.25 mm²	2.5 m	50 g	**8078230**	**NEBA-M8W3-U-2.5-N-LE3**
	5 m	96 g	**8078231**	**NEBA-M8W3-U-5-N-LE3**

Mounting kit SMBN-10



Size	Part no.	Type
10	**537809**	**SMBN-10**

Mounting kit for semi-rotary drive DSM



Size	Part no.	Type
6	**173205**	**WSM-6-SME-10**
8	**173206**	**WSM-8-SME-10**
10	**173207**	**WSM-10-SME-10**