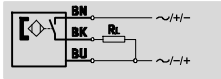


# Proximity sensors SME-10M, for C-slot

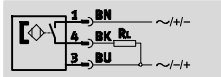
Technical data – Magnetic reed

**Function**

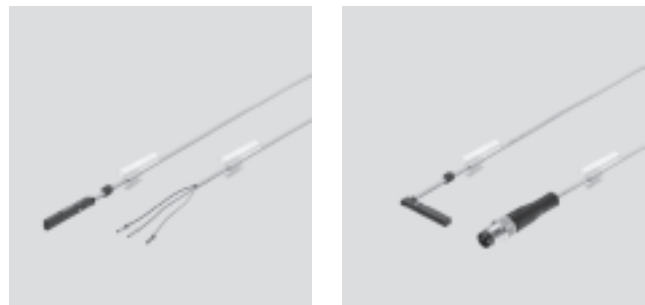
E.g. N/O contact, 3-wire, with cable



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 holder for inscription labels included in the scope of delivery



General technical data	
Design	For C-slot
Conforms to	EN 60947-5-2
Certification	RCM trademark
Special features	Oil resistant
CE mark (see declaration of conformity)	To EU EMC Directive <sup>1)</sup>
Note on materials	Cable free of halogen
	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](http://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		
Measured variable		Position
Measuring principle		Magnetic reed
Ambient temperature	[°C]	-40 ... +70

Switching output			
Type SME-10M		DS	ZS
Switching output		Contacting, bipolar	
Switching element function		N/O contact	
Repetition accuracy of switching output in ± mm	[mm]	0.1	
Switch-on time	[ms]	0 ... 1.2	
Switch-off time	[ms]	0 ... 1	
Max. switching frequency	[Hz]	50	
Max. output current	[mA]	300	100
Max. output current in mounting kits	[mA]	50	50
Max. switching capacity AC	[VA]	9	3
Max. switching capacity AC in mounting kits	[VA]	1.5	1.5
Max. switching capacity DC	[W]	9	3
Max. switching capacity DC in mounting kits	[W]	1.5	1.5
Voltage drop	[V]	0 ... 0.5	0 ... 4.5

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

# Proximity sensors SME-10M, for C-slot

Technical data – Magnetic reed

FESTO



Electronic components		
Rated operating voltage	[V DC]	24
Operating voltage range AC	[V]	5 ... 30
Operating voltage range DC	[V]	5 ... 30
Reverse polarity protection		No



Electromechanical components								
Type SME-10M	DS				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 Rotatable thread	M8x1 Snap-on flange	M12x1 Rotatable thread		M8x1 Rotatable thread	M8x1 Snap-on flange	M12x1 Rotatable thread
Connection direction	In-line 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]	0.2 ... 10						
Cable attribute	Energy chain + robot applications							
Cable sheath materials	TPE-U(PUR)							

Mechanical components	
Type of mounting	Screw-clamped in slot, insertable from above
Max. tightening torque	0.4
Mounting position	Any
Housing	PA reinforced
	High-alloy stainless steel

Display/operation	
Switching status display	Yellow LED

Immissions/emissions	
Ambient temperature with flexible cable installation	[°C] -20 ... +70
Protection class	IP65
	IP68

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

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

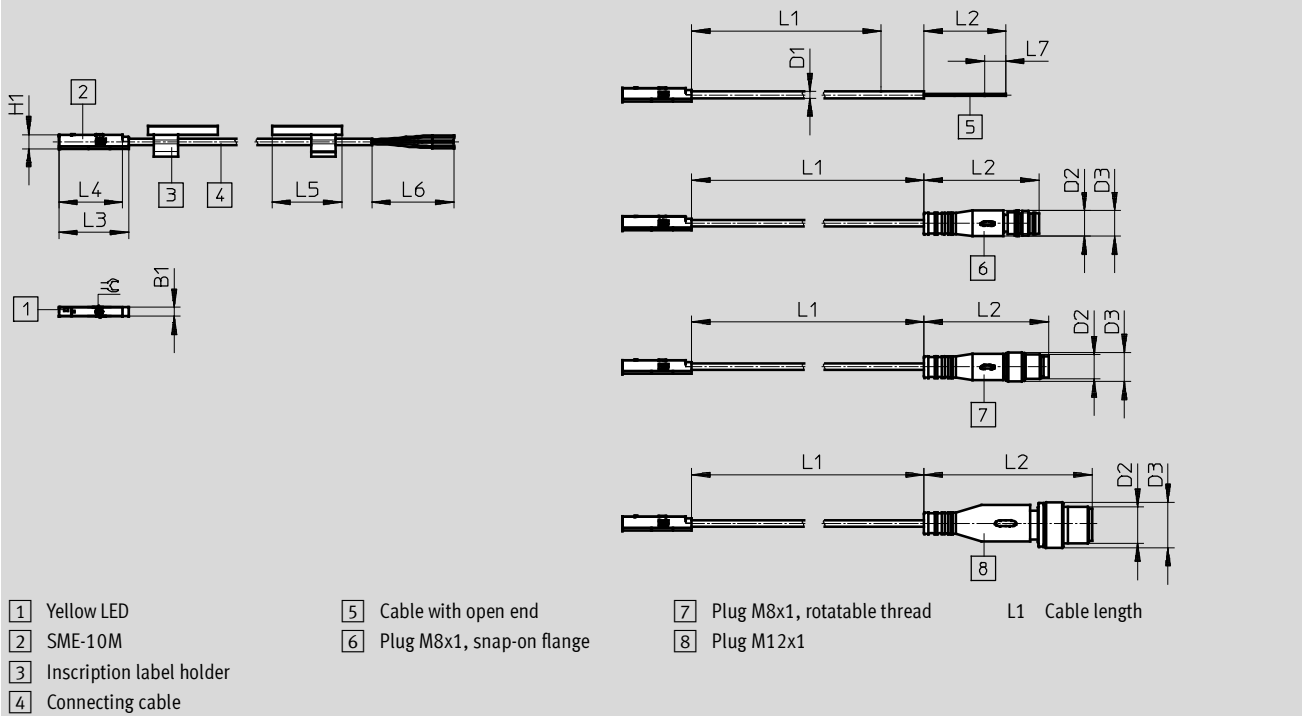
# Proximity sensors SME-10M, for C-slot

Technical data – Magnetic reed

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

SME-10M-...-L, in-line connection



Type	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					-	

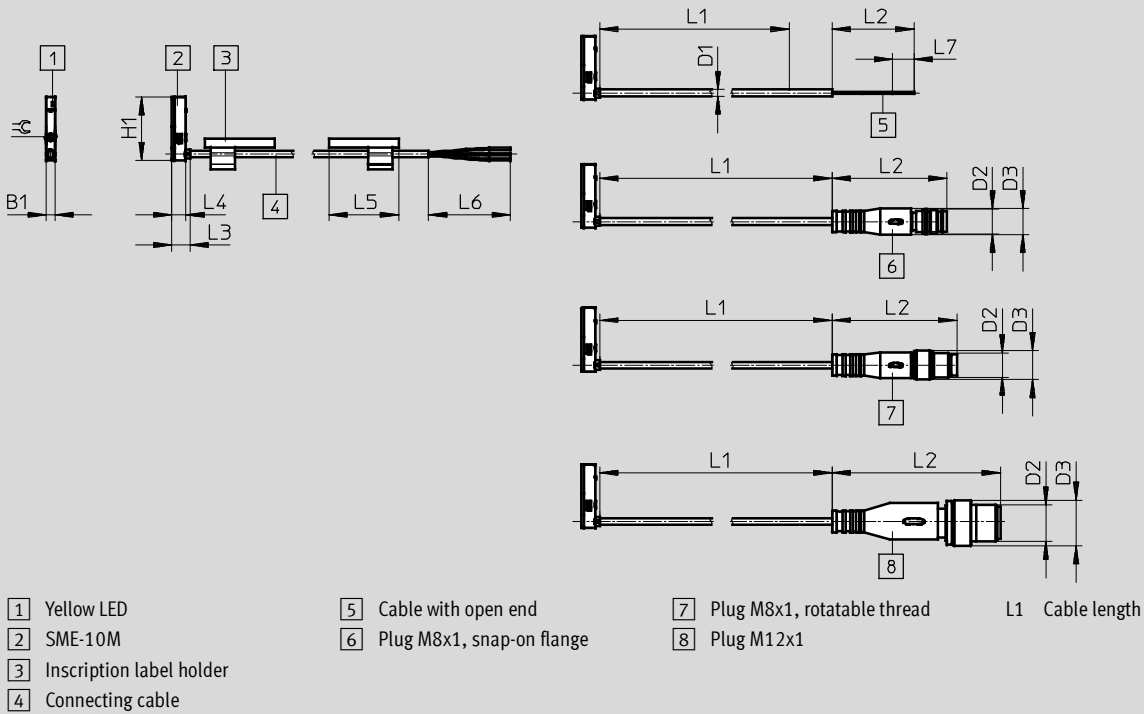
# Proximity sensors SME-10M, for C-slot

Technical data – Magnetic reed

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

SME-10M-...-Q, lateral connection



Type	B1	D1	D2	D3	H1	L2	L3	L4	L5	L6	L7	⊘
SME-10M-...-OE	3	2.15	-	-	24.6	50	6	4.6	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					-	

## Ordering data

	Switching output	Electrical connection		Cable length [m]	Weight [g]	Part No.	Type	
		Cable	Cable with plug, rotatable thread					
	N/O contact							
	Contacting, bipolar	3-wire	-	-	2.5	16.8	551365	SME-10M-DS-24V-E-2,5-L-OE
			-	M8x1, 3-pin	0.3	6.7	551366	SME-10M-DS-24V-E-2,5-Q-OE
		2-wire	-	-	2.5	14.6	551367	SME-10M-DS-24V-E-0,3-L-M8D
			-	-	-	2.5	14.6	551368
							551369	SME-10M-ZS-24V-E-2,5-L-OE
						551370	SME-10M-ZS-24V-E-2,5-Q-OE	

# Proximity sensors SME-10M, for C-slot

Modular products – Magnetic reed

M Mandatory data							O Options	M
Module No.	Function	Switching output	Rated operating voltage	Cable attribute	Cable length in m	Cable outlet	Cable designation	Connection technology
551364	SME-10M	DS ZS	24V	E	0.2 ... 10	L Q	N	OE M8D M8 M12
<b>Ordering example</b>								
551364	SME-10M	DS	24V	E	3	L	N	M8D

Ordering table							
Size	10	Conditions		Code		Enter code	
M	Module No.	551364					
	Function	Proximity sensor for C-slot, contacting		SME-10M		SME-10M	
				-		-	
	Switching output	3-wire N/O contact		DS			
	Switching output	2-wire N/O contact		ZS			
				-		-	
	Rated operating voltage [V DC]	24		24V		24V	
				-		-	
	Cable attribute	Energy chain + robot applications		E		E	
				-		-	
	Cable length [m]	0.2 ... 10 (0.2 ... 5.0 m in 0.1 m increments, 5.0 ... 10 m in 0.5 m increments)		...			
				-		-	
	Cable outlet	In-line		L			
		Lateral		Q			
				-		-	
O	Cable designation	With inscription label holder		-			
		Without inscription label holder		N			
				-		-	
M	Connection technology	Open end		OE			
		M8, rotatable thread		M8D			
		M8, snap-on flange		M8			
		M12, rotatable thread		M12			

Transfer order code

551364 SME-10M - [ ] - 24V - E - [ ] - [ ] - [ ] - [ ]