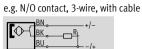
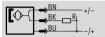
Proximity sensors SMEO-1, block design, magnetic reed Technical data

Function

• Magnetic reed measuring principle



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



Technical data

iccinicat uata				
Electrical connection	3-wire	2-wire		
Туре	SMEO-124	SMEO-1-LED-230 SMEO-1-B SMEO-1-S6,		SMEO-1-S6,
				heat-resistant
Design	Block design	Block design		
Conforms to	-	EN 60947-5-2		
Certification	RCM trademark	RCM trademark		
CE mark	To EU EMC Directive ¹⁾	To EU EMC Directive ¹⁾		
(see declaration of conformity)	-	To EU Low Voltage Directive		
Note on materials	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/sp → 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	

Туре	SMEO-1	SMEO-1-S6, heat-resistant
Measuring principle	Magnetic reed	Magnetic reed
Ambient temperature [°C]	-20 +70	-50 +120

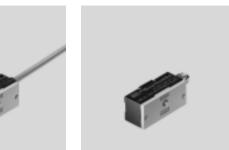
Switching	output
Swittening	output

Switching output						
Electrical connection		3-wire	2-wire	wire		
Туре		SMEO-124	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant	
Switching output		Contacting, bipolar	Contacting, bipola	Contacting, bipolar		
Switching element function		N/O contact	N/O contact	N/O contact		
Reproducibility of switching point ¹⁾	[mm]	±0.1	±0.1	±0.1		
Switch-on time	[ms]	≤0.5	≤0.5	≤0.5		
Switch-off time	[ms]	≤0.03	≤0.03	≤0.03		
Max. switching frequency [Hz]		-	500	500		
Max. output current	[mA]	1,000	-	1,000		
Max. output current DC	[mA]	-	120	1,000	-	
Max. output current AC	[mA]	-	250	1,000	-	
Max. switching capacity DC	[W]	27	40	40		
Max. switching capacity AC	[VA]	-	40	40		
Voltage drop	[V]	-	0 4.5	0 4.5 0		
Residual current	[mA]	-	0	0		

1) Only applicable to drives secured against rotation.

Output, additional data

• •	
Protection against short circuit	No
Protection against overloading	No



FESTO

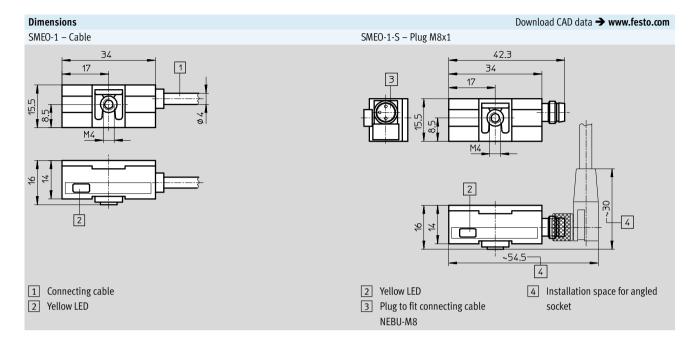
Proximity sensors SMEO-1, block design, magnetic reed Technical data

FESTO

Electronic components								
Electrical connection		3-wire		2-wire				
Туре		SMEO-1LED-24	SMEO-1-S-24-B	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant		
Operating voltage range DC	[V]	12 27	0 30	5 200	0 200			
Operating voltage range AC	[V]	-	-	5 250	0 250			
Reverse polarity protection		No		No				
Electromechanical components								
Electrical connection		3-wire		2-wire				
Туре		SMEO-1-LED-24	SMEO-1-SB	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant		
Electrical connection		Cable, 3-wire	Plug M8x1, 3-pin	Cable, 2-wire				
Connection direction		In-line		1				
Cable length	[m]	2.5	-	2.5	2.5	2.5		
		5		5	-	-		
Cable sheath materials		TPE-U (PUR)	-	PVC	PVC	TPE-S		
Mechanical components								
Electrical connection		3-wire		2-wire				
Type of mounting		Via accessories						
Tightening torque	[Nm]	-		2.9				
Product weight	[g]				2.7			
Housing materials	101	Die-cast zinc		Die-cast zinc	Die-cast zinc			
,		-		Epoxy resin				
				TPE-O				
				Steel	Steel			
				PET				
				PC				
Display/operation								
Electrical connection		3-wire SMEO-1LED-24	CME0.4.C.2/ D	2-wire	CMEO 1 D	CME0.4.67		
Туре		SMEU-1LED-24	SMEO-1-S-24-B	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant		
Switching status display		Yellow LED	-	Yellow LED	-	-		
Immissions/emissions								
Electrical connection		3-wire		2-wire				
Туре		SMEO-1LED-24	SMEO-1-S-24-B	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6,		
						heat-resistant		
Ambient temperature with flexible cable installation	[°C]	-5 +70	-	-5 +70	-5 +70	-40 +120		
Protection class		IP67		IP67				
Surge capacity	[kV]							
Degree of contamination	נגען	-		4 3				
				ر				
Pin allocation to EN 60947-5-2								
M8x1, 3-pin								
M8x1, 3-pin			ur	Allocation				
M8x1, 3-pin N/O contact		Pin Wire colo	pur	Allocation				
M8x1, 3-pin		Pin Wire colo 1 Brown	pur	Allocation +				
Pin allocation to EN 60947-5-2 M8x1, 3-pin N/0 contact 1 + + 4		Pin Wire colo	pur					

Proximity sensors SMEO-1, block design, magnetic reed Technical data





Ordering data									
	Electrical connection		Cable length	Switching status	Product weight	Part No.	Туре		
	Cable	Plug M8x1	[m]	display	[g]				
	N/O contact								
	Operating voltage range 12 27 V DC								
e ser	3-wire	-	2.5		85	30459	SMEO-1-LED-24-B		
			5.0		130	151672	SMEO-1-LED-24-K5-B		
	-	3-pin	-		20	150848	SMEO-1-S-LED-24-B		
	Operating voltage range 0 30 V DC								
	-	3-pin ¹⁾	-	-	20	150847	SMEO-1-S-24-B		
		·							
	Operating vo	tage range 0 250 V	AC, 0 200 V DC						
	2-wire	-	2.5		100	151671	SMEO-1-LED-230-B		
			5.0		130	160998	SMEO-1-LED-230-K5-B		
			2.5	-	100	30457	SMEO-1-B		
	Heat-resistant up to 120 °C								
	2-wire	-	2.5	-	100	151673	SMEO-1-S6-C		

1) The proximity sensor has 2 wires internally. One pin of the M8 plug is unused.