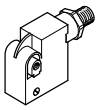
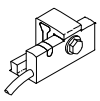
Proximity sensors, block design

FESTO

Proximity sensors, block design

Product range overview

Measuring principle	Version	Type	Mounting	Switching element function		Switching output	Electrical connection	
				N/O contact	N/C contact		Cable	Plug
Magneto-resistive	**Operating voltage range 10 … 30 V DC**							
		**SMTO-1**	Via accessories	■	–	PNP	3-wire	M8x1, 3-pin
				■	–	NPN	3-wire	M8x1, 3-pin
		**SMTSO-1** Welding field immune		■	–	PNP	–	M12x1, 3-pin
Magnetic reed	**Operating voltage range 0 … 30 V DC**							
		**SMEO-1**	Via accessories	■	–	Contacting	–	M8x1, 3-pin[1]
				■	–		3-wire	M8x1, 3-pin
	Operating voltage range 0 … 250 V AC, 0 … 200 V DC							
		**SMEO-1-B**	Via accessories	■	–	Contacting	2-wire	–
		SMEO-1		■	–		2-wire	–
				■	–		2-wire	–
		SMEO-1-S6-C Heat-resistant up to 120 °C		■	–		2-wire	–
Magnetic	**Pneumatic proximity sensor, operating pressure 2 … 6 bar**							
		**SMPO-1**	Via accessories	■ [2]	–	–	–	–
Magneto-inductive	**Operating voltage range 10 … 30 V DC**							
		**SMT-C1**	Clamped	■	–	PNP	3-wire	M8x1, 3-pin M12x1, 3-pin

1) The proximity sensor has 2 wires internally. One pin of the M8 plug is unused.
2) 3/2-way valve, normally closed

Proximity sensors, block design

Product range overview

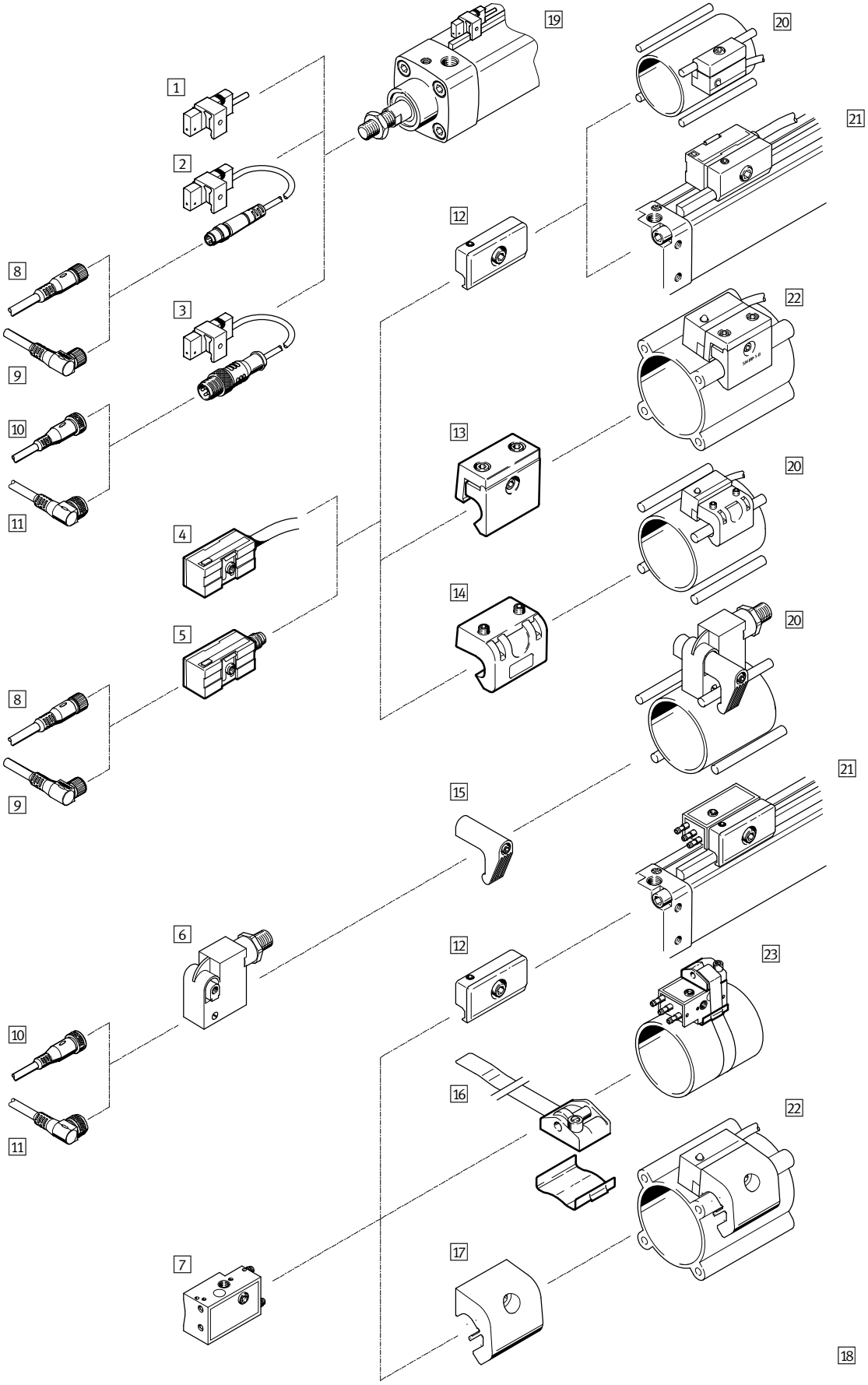
Type	Connection direction		Replacement without re-adjustment	Switching status display via LED	Free of copper and PTFE	➔ Page/Internet
	In-line	Lateral				
Operating voltage range 10 … 30 V DC						
SMTO-1	■	–	■ 1)	■	■	7
	■	–	■ 1)	■	–	
SMTSO-1 Welding field immune	■	–	–	■	–	9
Operating voltage range 0 … 30 V DC						
SMEO-1	■	–	■ 1)	–	■	11
	■	–	■ 1)	■	■	
Operating voltage range 0 … 250 V DC, 0 … 200 V DC						
SMEO-1-B	■	–	■ 1)	–	–	11
SMEO-1	■	–	■ 1)	■	–	
	■	–	■ 1)	–	–	
SMEO-1-S6-C Heat-resistant up to 120 °C	■	–	■ 1)	■	–	
Pneumatic proximity sensor, operating pressure 2 … 6 bar						
SMPO-1	■	–	■ 1)	– 2)	–	14
Operating voltage range 10 … 30 V DC						
SMT-C1	■	–	–	■	■	16

1) Not in combination with mounting kit SMB-1 or SMBS-…

2) Switching status is indicated via a pneumatic pin

Proximity sensors, block design

Overview of peripherals



Proximity sensors, block design

Overview of peripherals

Mounting attachments and accessories			
		Brief description	**➔ Page/Internet**
Proximity sensors			
1	SMT-C1-...	Magneto-inductive, with cable and clamping component	16
2	SMT-C1-...	Magneto-inductive, with cable and plug M8x1 and clamping component	16
3	SMT-C1-...	Magneto-inductive, with cable and plug M12x1 and clamping component	16
4	SMTO-1-...	Magneto-resistive, with cable	7
	SMEO-1-...	Magnetic reed, with cable	11
5	SMTO-1-...	Magneto-resistive, with plug M8x1	7
	SMEO-1-...	Magnetic reed, with plug M8x1	11
6	SMTSO-1-...	Magneto-resistive, welding field immune, with plug M12x1	9
7	SMPO-1-...	Pneumatic	14
Accessories			
8	Connecting cable NEBU-M8G3-...	Straight socket, M8x1, 3-pin	21
9	Connecting cable NEBU-M8W3-...	Angled socket, M8x1, 3-pin	
10	Connecting cable NEBU-M12G5-...	Straight socket, M12x1, 3-pin	
11	Connecting cable NEBU-M12W5-...	Angled socket, M12x1, 3-pin	
12	Mounting kit SMB-1	For drives with tie rod ∅ 6 mm or mounting rail For standard cylinders DSBG	19
13	Mounting kit SMBU-1-B	For standard cylinders DNU	19
14	Mounting kits SMB-2-B, SMB-3-B	For standard cylinders DSBG	19
15	Mounting kit SMBT-1	For standard cylinders DSBG	20
16	Mounting kit SMBS-...	For round cylinders	20
17	Mounting kit SMBU-1-H-32	For standard cylinders DNU	20
18	Sensor tester SM-TEST-1		sm-test-1
Drives			
19	Standard cylinder DSBF-C or CDN-...-R with sensor rail	∅ 32 ... 100 mm	–
20	Standard cylinder DSBG	∅ 32 ... 125 mm	–
21	Flat cylinder DZH	∅ 32 ... 63 mm	–
	Semi-rotary drive DRQ	∅ 40 ... 100 mm	
22	Standard cylinder DNU	∅ 32 ... 125 mm	
23	Round cylinder	∅ 8 ... 100 mm	

Proximity sensors, block design

Type codes

Proximity sensor for cylinders with tie or mounting rod

SMTO-1	–	PS	–	K	–	LED	–	24	–	C

Function	
SMTO-1	Proximity sensor, block design, magneto-resistive
SMTSO-1	Proximity sensor, block design, magneto-resistive, welding field immune
SMEO-1	Proximity sensor, block design, magnetic reed
SMPO-1	Proximity sensor, block design, magnetic

Switching output, switching element function	
PS	PNP, N/O contact, 3-wire
NS	NPN, N/O contact, 3-wire
	N/O contact, 2 or 3-wire

Electrical connection, cable length	
K	Cable, 2.5 m
S	Plug M8x1

Switching status display	
LED	Yellow LED

Rated operating voltage	
24	24 V DC
230	230 V AC

Generation	
B	B series
C	C series

Proximity sensor for standard cylinders DSBF-C or CDN-...-R with sensor strip

SMT-C1	–	PS	–	24V	–	K	–	5,0	–	OE

Function	
SMT-C1	Proximity sensor, block design, magneto-inductive

Switching element function, switching output	
PS	N/O contact, 3-wire, PNP

Rated operating voltage	
24V	24 V DC

Version	
K	Cable

Cable length	
0,3	0.3 m
5,0	5.0 m
10,0	10.0 m

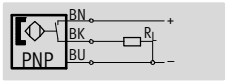
Electrical connection	
OE	Open end
M8D	Cable with plug M8x1, rotatable thread
M12	Cable with plug M12x1

Proximity sensors SMTO-1, block design, magneto-resistive

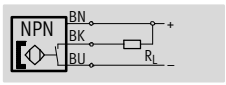
Technical data

Function

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



e.g. NPN, N/O contact, with cable



- Magneto-resistive measuring principle

Design		
Constructional design		Block design
Type of mounting		Via accessories
Connection direction		In-line
Reproducibility of switching point[1]	[mm]	±0.1
Switching status display		Yellow LED

1) Only applicable to drives secured against rotation.

Technical data – N/O contact			
Switch output		PNP	
		NPN	
Electrical connection		Cable, 3-wire	Plug M8x1, 3-pin
Cable length	[m]	2.5	–
Operating voltage range	[V DC]	10 ... 30	
Max. switching current	[mA]	200	
Max. switching capacity	[W]	6	
Voltage drop	[V]	3	
Residual current	[mA]	≤0.01	
Switch-on time	[ms]	≤1	
Switch-off time	[ms]	≤1	
Protection against short circuit		Yes	
Protection against polarity reversal		For all electrical connections	
Protection class		IP67	

Operating and environmental conditions				
Electrical connection		Cable		Plug
Cable installation		Fixed	Flexible	
Ambient temperature	[°C]	–25 ... +70	–5 ... +70	–25 ... +70
Corrosion resistance class CRC[1]		4		2
CE symbol (declaration of conformity)		In accordance with EU EMC directive[2]		
Certification		RCM trademark		

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔ also FN 940082) using appropriate media.

2) 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.

Materials	
Housing	Die-cast zinc, polyester
Cable sheath	Polyvinyl chloride
Note on materials	Free of copper and PTFE

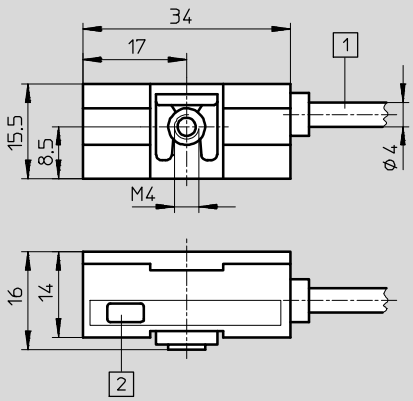
Proximity sensors SMTO-1, block design, magneto-resistive

Technical data

Product weights [g]		
Electrical connection	Cable	Plug
N/O contact		
PNP	85	20
NPN	85	20

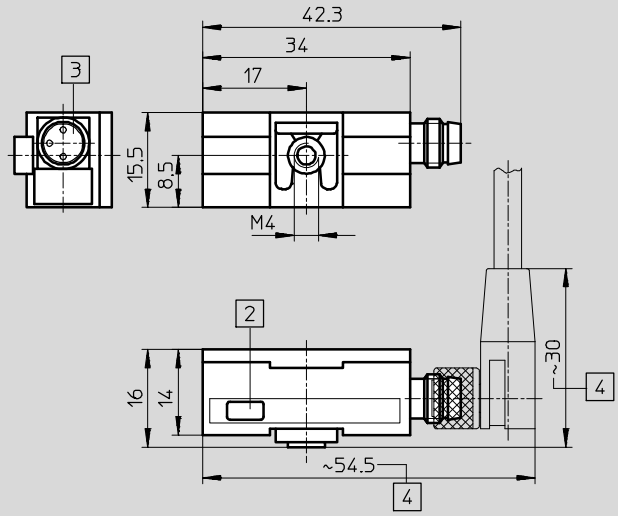
Dimensions Download CAD data ➔ **www.festo.com**

Cable type



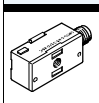
1 Connecting cable
2 Yellow LED

Plug type M8x1



2 Yellow LED
3 Plug suitable for plug socket with cable NEBU-M8...
4 Installation space for angled socket

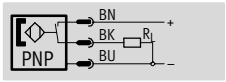
Ordering data

	Switch output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Plug M8x1			
	N/O contact					
	PNP	3-wire	–	2.5	**151683**	**SMTO-1-PS-K-LED-24-C**
		–	3-pin	–	**151685**	**SMTO-1-PS-S-LED-24-C**
	NPN	3-wire	–	2.5	**151684**	**SMTO-1-NS-K-LED-24-C**
		–	3-pin	–	**151686**	**SMTO-1-NS-S-LED-24-C**

Proximity sensors SMTSO-1, block design, magneto-resistive

Technical data

Function
PNP, N/O contact, with plug



- Welding field immune
- Magneto-resistive measuring principle

Design		
Constructional design		Block design
Type of mounting		Via accessories
Connection direction		In-line
Reproducibility of switching point[1)]	[mm]	±0.1
Switching status display		Yellow LED
Ready status display		Green LED

1) Only applicable to drives secured against rotation

Technical data – PNP, N/O contact		
Electrical connection		Plug M12x1, 3-pin
Operating voltage range	[V DC]	10 … 30
Max. switching current	[mA]	200
Max. switching capacity	[W]	6
Voltage drop	[V]	3
Residual current	[mA]	0.01
Switch-on time	[ms]	≤35
Switch-off time	[ms]	≤20
Resistance to interference from magnetic fields		Alternating magnetic field 50 … 60 Hz
Protection against short circuit		Yes
Protection against polarity reversal		For all electrical connections
Protection class		IP65/IP67

Operating and environmental conditions		
Ambient temperature	[°C]	–25 … +70
Corrosion resistance class CRC[1)]		1
CE symbol (declaration of conformity)		In accordance with EU EMC directive[2)]
Certification		RCM trademark

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).
2) 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.

Materials	
Housing	Die-cast zinc

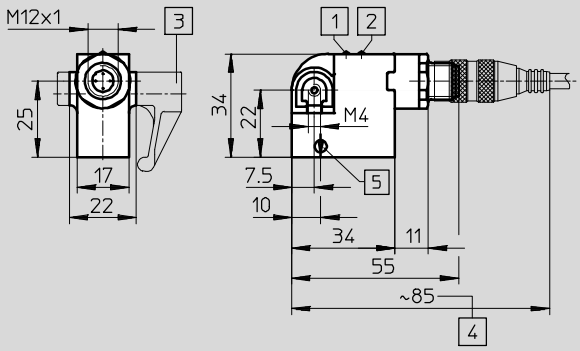
Product weights [g]	
N/O contact	
PNP	70

Proximity sensors SMTSO-1, block design, magneto-resistive

Technical data

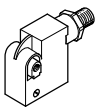
Dimensions Download CAD data ➔ **www.festo.com**

Plug type M12x1



1 Green LED
2 Yellow LED
3 Mounting kit
4 Installation space for socket

Ordering data

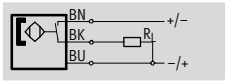
	Switch output	Electrical connection	Part No.	Type
	N/O contact			
	Welding field immune			
	PNP	Plug M12x1, 3-pin	**30441**	**SMTSO-1-PS-S-LED-24**

Proximity sensors SMEO-1, block design, magnetic reed

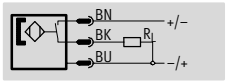
Technical data

Function

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



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



- Magnetic reed measuring principle

Technical data				
Electrical connection	3-wire	2-wire		
Type	SMEO-1-...-24	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant
Design	Block design	Block design		
Conforms to	–	EN 60947-5-2		
Certification	RCM trademark	RCM trademark		
CE mark (see declaration of conformity)	To EU EMC Directive[1)]	To EU EMC Directive[1)]		
	–	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			
Type	SMEO-1	SMEO-1-S6, heat-resistant	
Measuring principle	Magnetic reed	Magnetic reed	
Ambient temperature [°C]	–20 ... +70	–50 ... +120	

Switching output				
Electrical connection	3-wire	2-wire		
Type	SMEO-1-...-24	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant
Switching output	Contacting, bipolar	Contacting, bipolar		
Switching element function	N/O contact	N/O contact		
Reproducibility of switching point[1)] [mm]	±0.1	±0.1		
Switch-on time [ms]	≤0.5	≤0.5		
Switch-off time [ms]	≤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		
Max. switching capacity AC [VA]	–	40		
Voltage drop [V]	–	0 ... 4.5	0	
Residual current [mA]	–	0		

1) Only applicable to drives secured against rotation.

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

Proximity sensors SMEO-1, block design, magnetic reed

Technical data

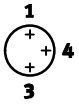
Electronic components						
Electrical connection		3-wire		2-wire		
Type		SMEO-1-...-LED-24	SMEO-1-S-24-B	SMEO-1-LED-230	SMEO-1-B	SMEO-1-S6, heat-resistant
Operating voltage range DC	[V]	12 ... 27	0 ... 30	5 ... 200	0 ... 200	
Operating voltage range AC	[V]	–	–	5 ... 250	0 ... 250	
Reverse polarity protection		No		No		

Electromechanical components						
Electrical connection		3-wire		2-wire		
Type		SMEO-1-LED-24	SMEO-1-S-...-B	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				
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]		
Housing materials		Die-cast zinc	Die-cast zinc
		–	Epoxy resin
			TPE-O
			Steel
			PET
			PC

Display/operation						
Electrical connection		3-wire		2-wire		
Type		SMEO-1-...-LED-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		
Type		SMEO-1-...-LED-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]	–		4		
Degree of contamination		–		3		

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

Proximity sensors SMEO-1, block design, magnetic reed

Technical data

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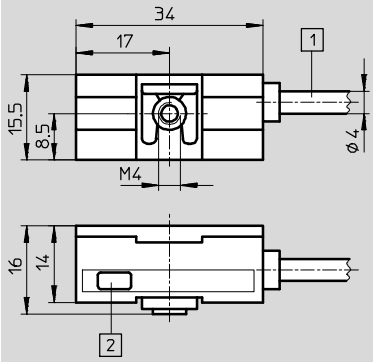
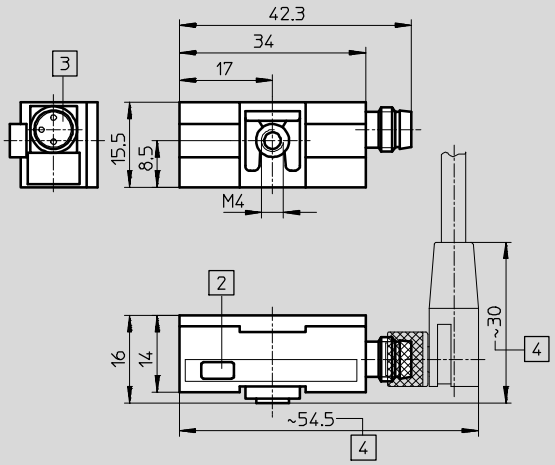
Dimensions Download CAD data ➔ **www.festo.com**

SMEO-1 – Cable



SMEO-1-S – Plug M8x1



1 Connecting cable
2 Yellow LED
2 Yellow LED
3 Plug to fit connecting cable NEBU-M8
4 Installation space for angled socket

Ordering data

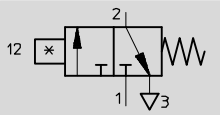
	Electrical connection		Cable length	Switching status display	Product weight	Part No.	Type
	Cable	Plug M8x1	[m]		[g]		
	N/O contact						
	Operating voltage range 12 ... 27 V DC						
	3-wire	–	2.5	■	85	**30459**	**SMEO-1-LED-24-B**
			5.0	■	130	**151672**	**SMEO-1-LED-24-K5-B**
	–	3-pin	–	■	20	**150848**	**SMEO-1-S-LED-24-B**
	Operating voltage range 0 ... 30 V DC						
	–	3-pin[1)]	–	–	20	**150847**	**SMEO-1-S-24-B**
	Operating voltage 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.

Proximity sensors SMPO-1, block design, pneumatic

Technical data

Function
3/2-way valve,
normally closed



- Pneumatic proximity sensor
- Magnetic measuring principle

Design		
Constructional design		Block design
Type of mounting		Via accessories
Connection direction		In-line
Reproducibility of switching point[1)]	[mm]	±0.1
Switching status display		Optical

1) Only applicable to drives secured against rotation.

Technical data		
Switching element function		3/2-way valve, normally closed
Operating medium		Filtered, unlubricated compressed air
Operating pressure	[bar]	2 ... 6
Switch-on time	[ms]	12
Switch-off time	[ms]	30
Pneumatic connection		Barbed connector for tubing, nominal diameter 3 mm
Protection class		IP65

Operating and environmental conditions		
Ambient temperature	[°C]	–15 ... +60
Corrosion resistance class CRC[1)]		1

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

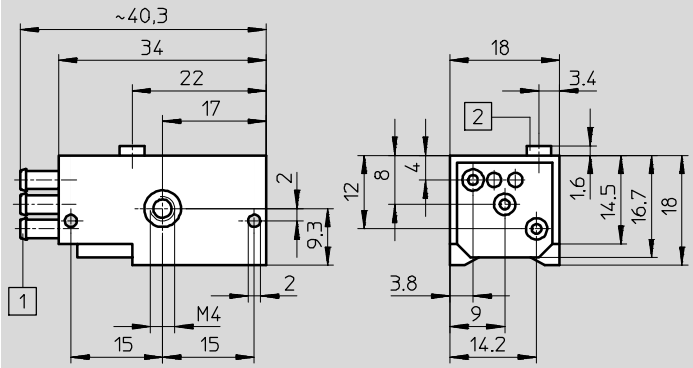
Materials	
Housing	Polyamide
Barbed connector	Brass
Note on materials	Free of copper and PTFE

Product weights [g]	
PNP	14

Proximity sensors SMPO-1, block design, pneumatic

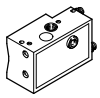
Technical data

Dimensions Download CAD data ➔ **www.festo.com**



1 Barbed connector for tubing, nominal diameter 3 mm
2 Visual indicator

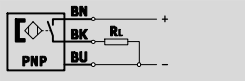
Ordering data

	Pneumatic connection	Part No.	Type
	3/2-way valve, normally closed		
	Barbed connector for 3 mm I.D. tubing	**31008**	**SMPO-1-H-B**

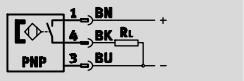
Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

Function
PNP, N/O contact, with cable



Function
PNP, N/O contact, with plug



- Magneto-inductive measuring principle
- For standard cylinders DSBF-C or CDN-...-R with sensor strip

Technical data	
Design	Block design
Based on standard	EN 60947-5-2
Certification	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive[1)]
Note on materials	Cable free of halogen
	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		
Measuring principle		Magneto-inductive
Measured variable		Position
Ambient temperature	[°C]	–20 ... +70

Switching output		
Switching output		PNP
Switching element function		N/O contact
Switch-on time	[ms]	0 ... 0.5
Switch-off time	[ms]	0 ... 0.5
Max. output current	[mA]	200
Max. switching capacity DC	[W]	6
Voltage drop	[V]	0 ... 1.8

Output, additional data	
Protection against short circuit	Pulsed
Protection against overloading	Yes

Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

Electronic components		
Operating voltage range DC	[V]	10 … 30
Residual ripple	[%]	10
Reverse polarity protection		For all electrical connections

Electromechanical components				
Type		SMT-C1-…-OE	SMT-C1-…-M8D	SMT-C1-…-M12
Electrical connection		Cable, 3-wire	Cable with plug M8x1, 3-pin, rotatable thread	Cable with plug M12x1, 3-pin
Connection direction		In-line		
Cable length	[m]	–	0.3	0.3
		5	–	–
		10		
Cable sheath materials		TPE-O		
Wire ends		Wire end sleeve		

Mechanical components		
Type of mounting		Clamped
Tightening torque	[Nm]	1.2
Mounting position		Any
Housing materials		High-alloy stainless steel
		Wrought aluminium alloy
		Nickel-plated brass
		PP
		TPE-O
		TPE-U(PU)

Display/operation		
Switching status display		Yellow LED

Immissions/emissions		
Ambient temperature with flexible cable installation	[°C]	–20 … +70
Protection class		To IEC 60529
		IP65
		IP68

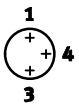
Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

Pin allocation to EN 60947-5-2

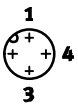
M8x1, 3-pin

N/O contact

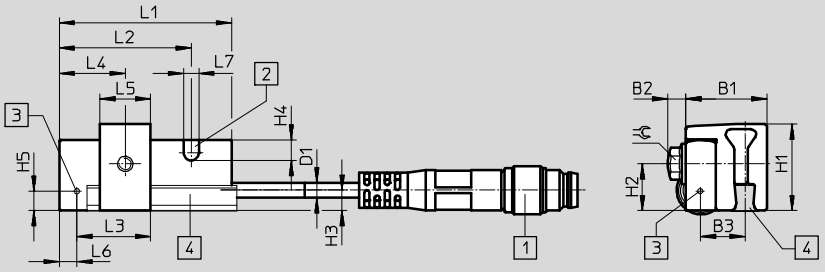
	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output

M12x1, 3-pin

N/O contact

	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	–
	4	Black	Output

Dimensions Download CAD data ➔ **www.festo.com**



1 Example: Plug M8
2 Yellow LED
3 Theoretical switching point
4 Mounting rail on the drive

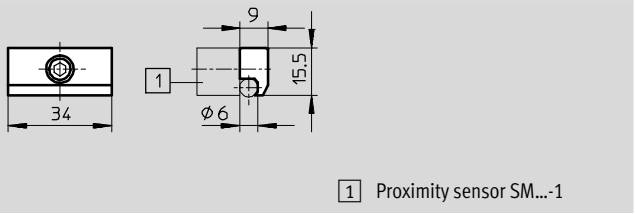
	B1	B2	B3	D1	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	⌀
SMT-C1	16	3.5	8.8	3	17	9.2	4	4	3.8	34	26	14.5	13	10	3.5	3	5.5

Ordering data

	Switching output	Electrical connection			Cable length	Weight	Part No.	Type
		Cable	Cable with plug					
			M8x1, rotatable thread	M12x1	[m]	[g]		
	N/O contact							
	PNP	3-wire	–	–	5	65.9	**571339**	**SMT-C1-PS-24V-K-5,0-OE**
					10	114.5	**571340**	**SMT-C1-PS-24V-K-10,0-OE**
		–	3-pin	–	0.3	24.4	**571342**	**SMT-C1-PS-24V-K-0,3-M8D**
		–	–	3-pin	0.3	32.6	**571341**	**SMT-C1-PS-24V-K-0,3-M12**

Mounting kit SMB-1

Material:
Die-cast zinc

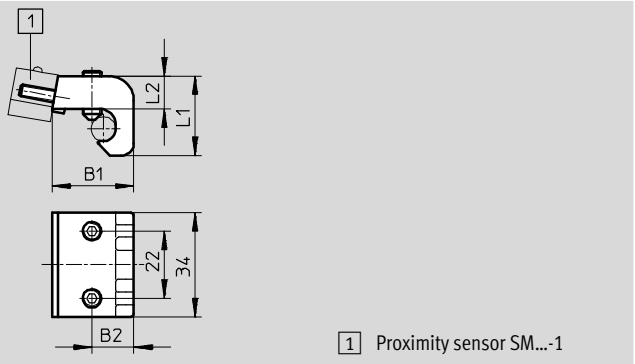


Dimensions and ordering data

For piston ∅	Part No.	Type
32 ... 100	**11886**	**SMB-1**

Mounting kit SMB-2-B/SMB-3-B

Material:
Die-cast aluminium

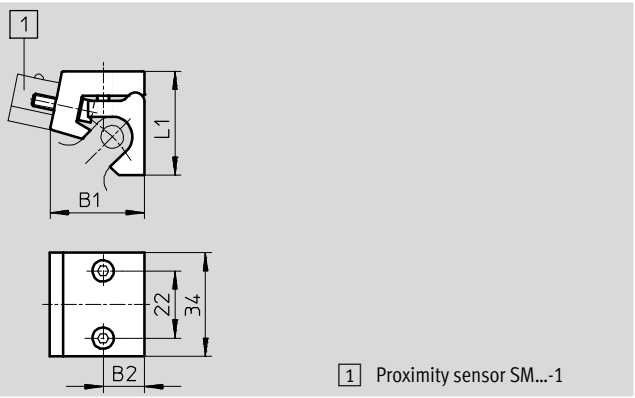


Dimensions and ordering data

For piston ∅	B1	B2	L1	L2	Part No.	Type
32 ... 50	18	11	23	11.6	**36162**	**SMB-2-B**
63 ... 100	26.8	13.7	26	10.8	**36163**	**SMB-3-B**

Mounting kit SMBU

Material:
Die-cast aluminium



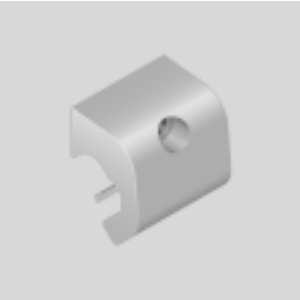
Dimensions and ordering data

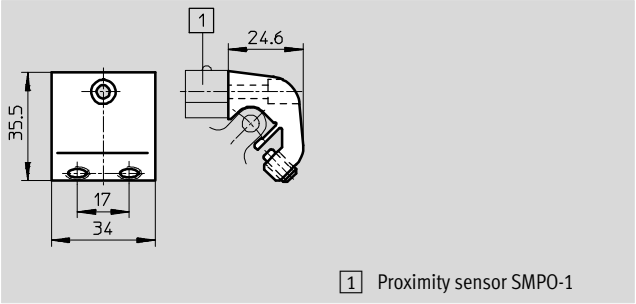
For piston ∅	B1	B2	L1	Part No.	Type
32 ... 50	19	8.5	30	**36173**	**SMBU-1-B**[1)]
63 ... 100	31	13.5	34	**36174**	**SMBU-2-B**[1)]
125	31	13.5	37	**152828**	**SMBU-3-B**

1) Free of copper and PTFE

Mounting kit SMBU-1-H-32

Material:
Aluminium

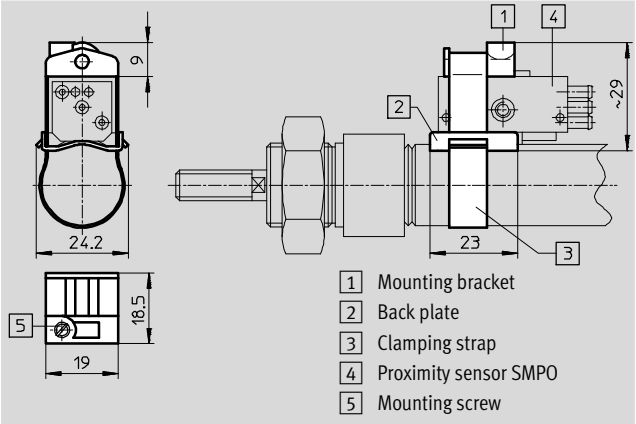




Dimensions and ordering data		
For piston ∅	Part No.	Type
32	**150216**	**SMBU-1-H-32**

Mounting kit SMBS

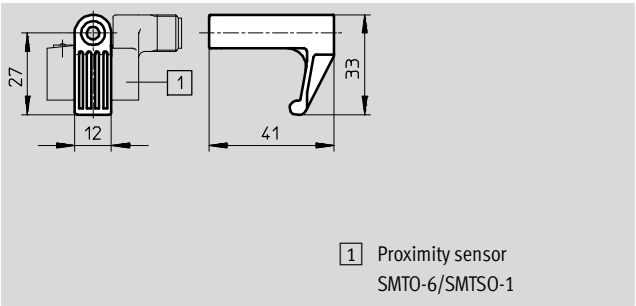
Material:
Brass, plastic



Dimensions and ordering data		
For piston ∅	Part No.	Type
8 … 25	**151225**	**SMBS-1**
32 … 100	**151226**	**SMBS-2**

Mounting kit SMBT-1

Material:
Die-cast zinc



Dimensions and ordering data		
For piston ∅	Part No.	Type
32 … 200	**150002**	**SMBT-1**

Ordering data – Connecting cables Technical data ➔ Internet: nebu

		Number of wires	Cable length [m]	Part No.	Type
Socket M8x1, 3-pin					
	For SMT-C1 and SMTO/SMEO-1	3	2.5	**541333**	**NEBU-M8G3-K-2.5-LE3**
			5	**541334**	**NEBU-M8G3-K-5-LE3**
	For SMT-C1 and SMTO/SMEO-1	3	2.5	**541338**	**NEBU-M8W3-K-2.5-LE3**
			5	**541341**	**NEBU-M8W3-K-5-LE3**
Socket M12x1, 5-pin					
	For SMT-C1 and SMTO-6, SMTSO-1	3	2.5	**541363**	**NEBU-M12G5-K-2.5-LE3**
			5	**541364**	**NEBU-M12G5-K-5-LE3**
	For SMT-C1 and SMTO-6, SMTSO-1	3	2.5	**541367**	**NEBU-M12W5-K-2.5-LE3**
			5	**541370**	**NEBU-M12W5-K-5-LE3**