

Pressure transmitters SPTE

FESTO



Pressure transmitters SPTE

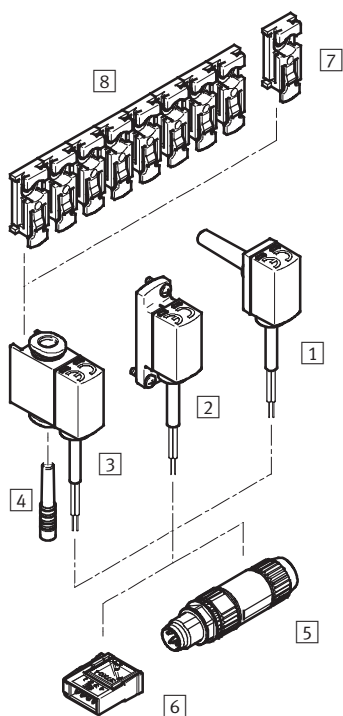
Product range overview

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Method of measurement	Pressure measuring range [bar]	Measured variable	Pneumatic connection	Analogue output [V]	Electrical connection
Piezoresistive pressure sensor	0 ... -1	Relative pressure	Push-in sleeve 4 mm	1 ... 5	Cable, 3-wire, open end
			Push-in sleeve 6 mm		
			Push-in connector 3 mm		
			Push-in connector 4 mm		
			Flange		
			Push-in sleeve 4 mm	0 ... 10	Cable, 3-wire, open end
			Push-in sleeve 6 mm		
			Push-in connector 3 mm		
			Push-in connector 4 mm		
			Flange		
	0 ... 10	Relative pressure	Push-in sleeve 4 mm	1 ... 5	Cable, 3-wire, open end
			Push-in sleeve 6 mm		
			Push-in connector 3 mm		
			Push-in connector 4 mm		
			Flange		
			Push-in sleeve 4 mm	0 ... 10	Cable, 3-wire, open end
			Push-in sleeve 6 mm		
			Push-in connector 3 mm		
			Push-in connector 4 mm		
			Flange		

Pressure transmitters SPTE

Peripherals overview



Accessories		→ Page/Internet
1	Pressure transmitter SPTE-...-S...	5
2	Pressure transmitter SPTE-...-F	5
3	Pressure transmitter SPTE-...-Q...	5
4	Blanking plug QSMC-3H (included in the scope of delivery with SPTE-...-Q...)	qs
5	Plug NECU-S-M...G3-HX	9
6	Plug NECU-S-ECG4-HX-Q3	9
7	Mounting clip SAMH-PE-MC-1	9
8	Mounting clip SAMH-PE-MC-8	9

Pressure transmitters SPTE

Type codes

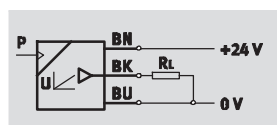
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		SPTE	-	P10	R	-	S4	-	B	-	2.5K
Function											
SPTE	Pressure transmitter										
Pressure measuring range											
V1	0 ... -1 bar										
P10	0 ... 10 bar										
Pressure input											
R	Relative pressure										
Pneumatic connection											
S4	Push-in sleeve 4 mm										
S6	Push-in sleeve 6 mm										
Q3	Push-in connector 3 mm										
Q4	Push-in connector 4 mm										
F	Flange										
Electrical output											
B	1 ... 5 V										
V	0 ... 10 V										
Electrical connection											
2.5K	2.5 m cable, open end										

Pressure transmitters SPTE

Technical data

Function



-  Voltage
10 ... 30 V DC
-  Pressure
-1 ... +10 bar
-  Temperature range
0 ... +50 °C



General technical data

Certification	C-Tick
CE mark (see declaration of conformity) ¹⁾	To EU EMC Directive
Note on materials	RoHS-compliant

- 1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: 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

SPTE-	V1	P10
Measured variable	Relative pressure	
Method of measurement	Piezoresistive pressure sensor	
Pressure measuring range starting value [bar]	0	0
Pressure measuring range final value [bar]	-1	10
Max. overload pressure [bar]	5	15
Operating medium	Filtered, unlubricated compressed air, grade of filtration 40 µm Filtered, lubricated compressed air, grade of filtration 40 µm	
Temperature of medium [°C]	0 ... +50	
Ambient temperature [°C]	0 ... +50	

Output, general

Accuracy ±FS ¹⁾ [%]	3 (at room temperature of approx. 23 °C) 4 (in the ambient temperature range 0 ... 50 °C)	
Repetition accuracy ±FS ¹⁾ [%]	0.3	
Temperature coefficient ±FS/K ¹⁾ [%]	0.05	

- 1) % FS = % of the measuring range (full scale)

Analogue output

SPTE-...-	B	V
Analogue output [V]	1 ... 5	0 ... 10
Min. load resistance of voltage output [kΩ]	15	

Output, additional data

Protection against short circuit	For all electrical connections
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Electronic components

SPTE-...-	B	V
Operating voltage range DC [V]	10 ... 30	18 ... 30
Reverse polarity protection	For all electrical connections	

Pressure transmitters SPTE

Technical data

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Electromechanical components	
Electrical connection	Cable, 3-wire, open end
Cable length [m]	2.5

Mechanical components					
SPTE-...-	S4	S6	Q3	Q4	F
Type of mounting	Push-in		Via accessories		Via through-hole and screw
Mounting position	Any				
Pneumatic connection	Push-in sleeve QS-4	Push-in sleeve QS-6	QS-3	QS-4	Flange
Product weight [g]	35				
Housing materials	PA, reinforced				

Immissions/emissions	
Protection class	IP40
Corrosion resistance class CRC ¹⁾	2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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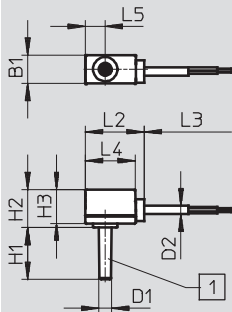
Technical data

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Dimensions

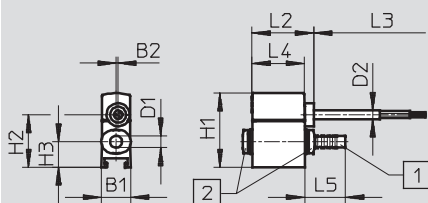
Download CAD data → www.festo.com

SPTE-...-S...



1 Pneumatic connection

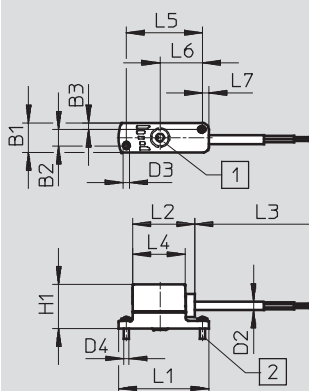
SPTE-...-Q...



1 Blanking plug

2 Pneumatic connection

SPTE-...-F



1 Pneumatic connection with O-ring for flat mounting

2 M2x6 screw

Type	B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7
SPTE-...-S4	9.8	—	—	4	2.9	—	—	18	13.3	11.8	—	20.5	2500	17.5	6.9	—	—
SPTE-...-S6		—	—	6		—	—	18	13.3	11.8	—				6.9	—	—
SPTE-...-Q3		0.7	—	3		—	—	24.7	17.5	8.5	—				13.6	—	—
SPTE-...-Q4		0.7	—	4		—	—	24.7	17.5	8.5	—				13.6	—	—
SPTE-...-F		5.4	2.1	—		2.1	M2x6	15	—	—	30				25	13.9	2.3

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Technical data

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Ordering data					
Pressure measuring range [bar]	Analogue output [V]	Pneumatic connection	Electrical connection	Part No.	Type
0 ... -1	1 ... 5	Push-in sleeve 4 mm	Cable, 3-wire, open end	571469	SPTE-V1R-S4-B-2.5K
		Push-in sleeve 6 mm		571470	SPTE-V1R-S6-B-2.5K
		Push-in connector 3 mm		571471	SPTE-V1R-Q3-B-2.5K
		Push-in connector 4 mm		571472	SPTE-V1R-Q4-B-2.5K
		Flange		571473	SPTE-V1R-F-B-2.5K
	0 ... 10	Push-in sleeve 4 mm		571474	SPTE-V1R-S4-V-2.5K
		Push-in sleeve 6 mm		571475	SPTE-V1R-S6-V-2.5K
		Push-in connector 3 mm		571476	SPTE-V1R-Q3-V-2.5K
		Push-in connector 4 mm		571477	SPTE-V1R-Q4-V-2.5K
		Flange		571478	SPTE-V1R-F-V-2.5K
	0 ... 10	Push-in sleeve 4 mm	Cable, 3-wire, open end	571479	SPTE-P10R-S4-B-2.5K
		Push-in sleeve 6 mm		571480	SPTE-P10R-S6-B-2.5K
		Push-in connector 3 mm		571481	SPTE-P10R-Q3-B-2.5K
		Push-in connector 4 mm		571482	SPTE-P10R-Q4-B-2.5K
		Flange		571483	SPTE-P10R-F-B-2.5K
		Push-in sleeve 4 mm		571484	SPTE-P10R-S4-V-2.5K
		Push-in sleeve 6 mm		571485	SPTE-P10R-S6-V-2.5K
		Push-in connector 3 mm		571486	SPTE-P10R-Q3-V-2.5K
		Push-in connector 4 mm		571487	SPTE-P10R-Q4-V-2.5K
		Flange		571488	SPTE-P10R-F-V-2.5K

Pressure transmitters SPTE

Accessories

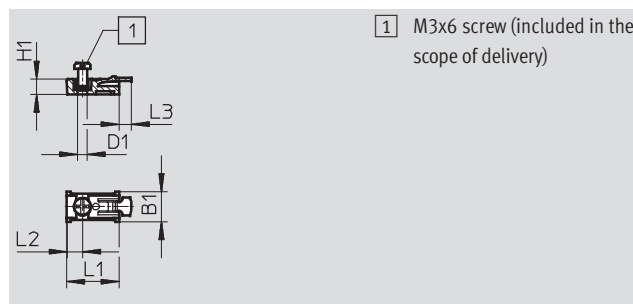
Mounting clip SAMH-PE-MC-1

Material:

POM

Note on materials:

RoHS-compliant



Dimensions and ordering data

B1	D1 Ø	H1	L1	L2	L3	Part No.	Type
10	3.2	5	17.5	5.3	4	571489	SAMH-PE-MC-1

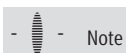
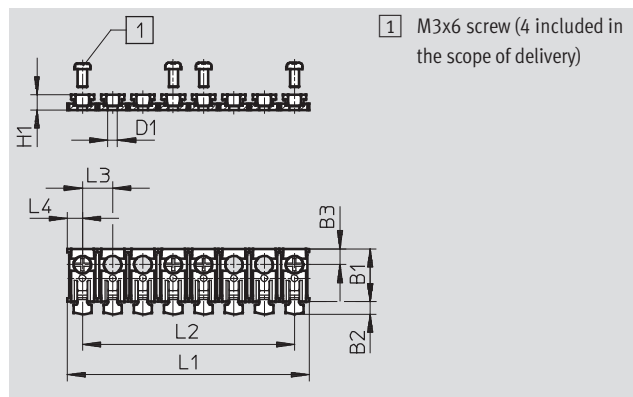
Mounting clip SAMH-PE-MC-8

Material:

POM

Note on materials:

RoHS-compliant



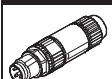
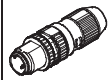

Note

The mounting clip SAMH-PE-MC-8 can be shortened by the user to the required number of slots.

Dimensions and ordering data

B1	B2	B3	D1 Ø	H1	L1	L2	L3	L4	Part No.	Type
17.5	4	5.3	3.2	5	80	70	10	5	571490	SAMH-PE-MC-8

Ordering data – Plugs

	Electrical connection	Part No.	Type
	Plug M8x1, 3-pin, straight, insulation displacement connector	562024	NECU-S-M8G3-HX
	Plug M12x1, A-coded, 3-pin, straight, insulation displacement connector	562027	NECU-S-M12G3-HX
	Straight plug/insulation displacement connector, 4-pin, square design	570922	NECU-S-ECG4-HX-Q3