

Pressure transmitters SPTE

FESTO



Pressure transmitters SPTE

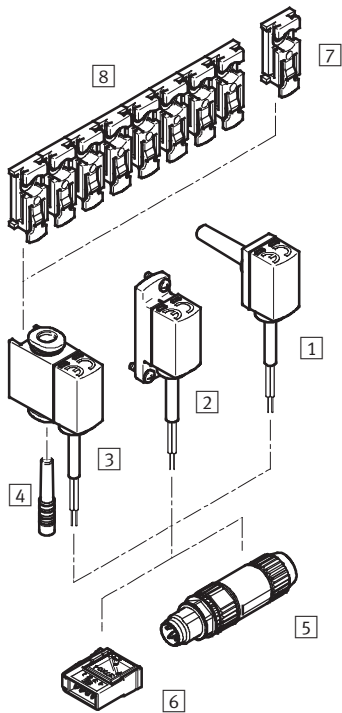
Product range overview

FESTO

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

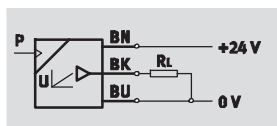
FESTO

		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

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

FESTO

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.

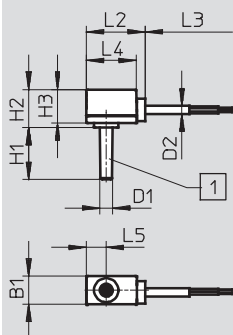
Pressure transmitters SPTE

Technical data

Dimensions

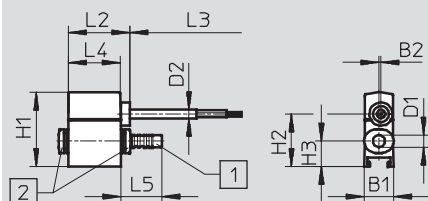
Download CAD Data → www.festo.com/us/cad

SPTE-...-S...



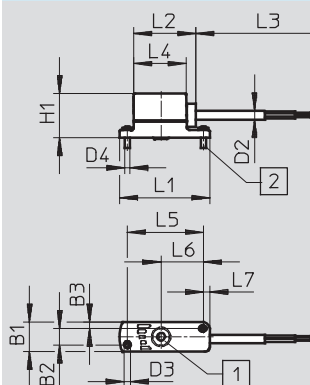
1 Pneumatic connection

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

Pressure transmitters SPTE

Technical data

FESTO

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	1 ... 5	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
	0 ... 10	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

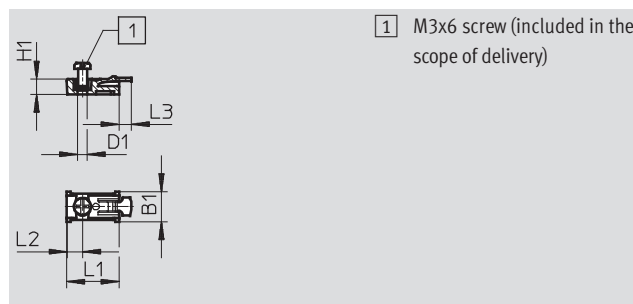
Mounting clip SAMH-PE-MC-1

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

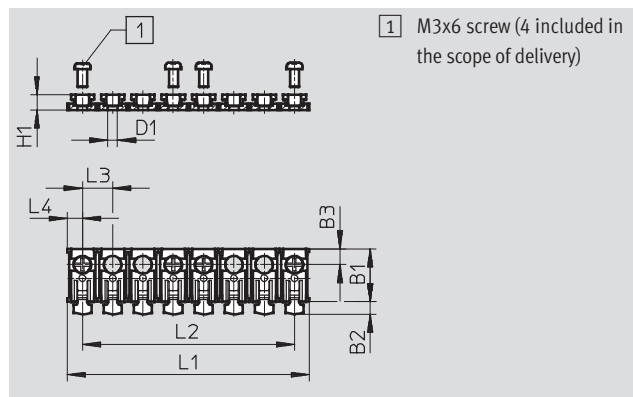
Mounting clip SAMH-PE-MC-8

Material:

POM

Note on materials:

RoHS-compliant



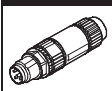
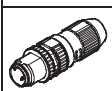
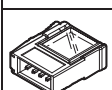
Note

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

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com