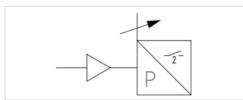




Pressure sensor, Series PE6

- Operating pressure -1 ... 0 0 ... 10 bar
- electronic
- with sensor element based on piezo resistance
- Electr. connection Plug M8x1 4-pin
- Compressed air connection Flange with O-ring Ø 1,2x1





Type electronic Function 2 x PNP

Compressed air connection Flange with O-ring Ø 1,2x1

Working pressure min./max.

Ambient temperature min./max.

0 ... 60 °C

Medium temperature min./max.

0 ... 50 °C

Compressed air

Max. oil content of compressed air 1 mg/m³

Measurement Relative pressure

Display LED

Switching logic NO (make contact)

Operating pressure display 2 LED Shock resistance max. 10 g

Vibration resistance 10 - 55 Hz, 0,1 mm

Repeatability (% of full scale value) \pm 1 % Switching time 2 ms

Switching point adjustable 0 ... 100%
Resetting point adjustable 0 ... 100%
Quiescent current consumption 20 mA

Short circuit resistance clocking

Mounting types via flange

Protection class IP40

Electr. connection Plug M8x1 4-pin

Weight 0,006 kg

Technical data

Part No.	Туре	Operating pressure range min./max.	Protection against overpressure
R412007880	PE6-P2-L HYST. FEST	-1 0 bar	5 bar
R412007881	PE6-P2-L HYST EINST	-1 0 bar	5 bar
R412007882	PE6-P2-S HYST FEST	-1 0 bar	5 bar
R412007883	PE6-P2-S HYST EINST	-1 0 bar	5 bar
R412007884	PE6-P2-L HYST. FEST	0 10 bar	15 bar
R412007885	PE6-P2-L HYST. EINST	0 10 bar	15 bar
R412007886	PE6-P2-S HYST. FEST	0 10 bar	15 bar
R412007887	PE6-P2-S HYST. EINST	0 10 bar	15 bar

Part No.	Output signal digital	Precision (% of full scale value)	Hysteresis
R412007880	2 x PNP	± 3 %	2% of the final value, fixed
R412007881	2 x PNP	± 3 %	adjustable



Part No.	Output signal digital	Precision (% of full scale value)	Hysteresis
R412007882	2 x PNP	± 3 %	2% of the final value, fixed
R412007883	2 x PNP	± 3 %	adjustable
R412007884	2 x PNP	± 3 %	2% of the final value, fixed
R412007885	2 x PNP	± 3 %	adjustable
R412007886	2 x PNP	± 3 %	2% of the final value, fixed
R412007887	2 x PNP	± 3 %	adjustable

Part No.	Mounting orientation
R412007880	L (horizontal)
R412007881	L (horizontal)
R412007882	S (vertical)
R412007883	S (vertical)
R412007884	L (horizontal)
R412007885	L (horizontal)
R412007886	S (vertical)
R412007887	S (vertical)

Technical information

Notice: This product may only be operated with oil-free, dry compressed air.

Flange plate with screws and seals in scope of delivery

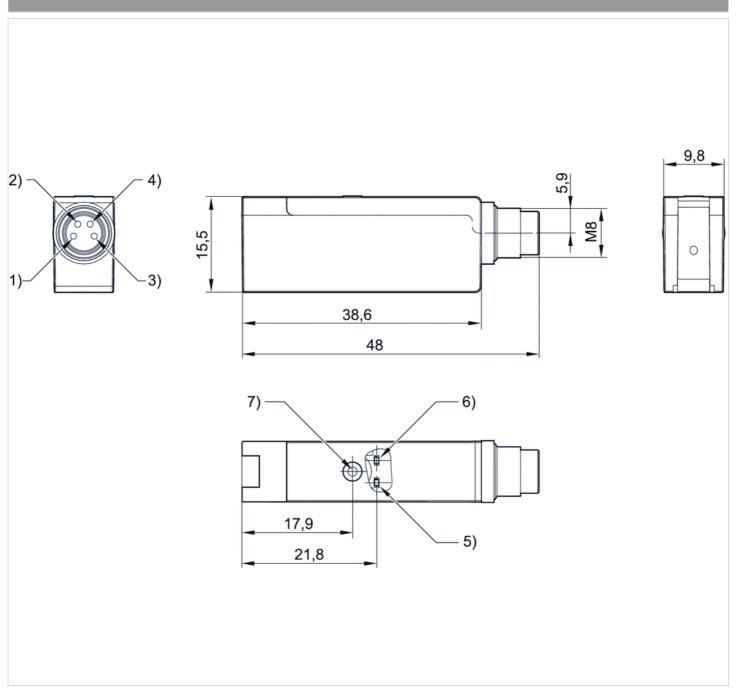
Technical information

Material	
Housing	Polycarbonate
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated



Dimensions

PF6 -

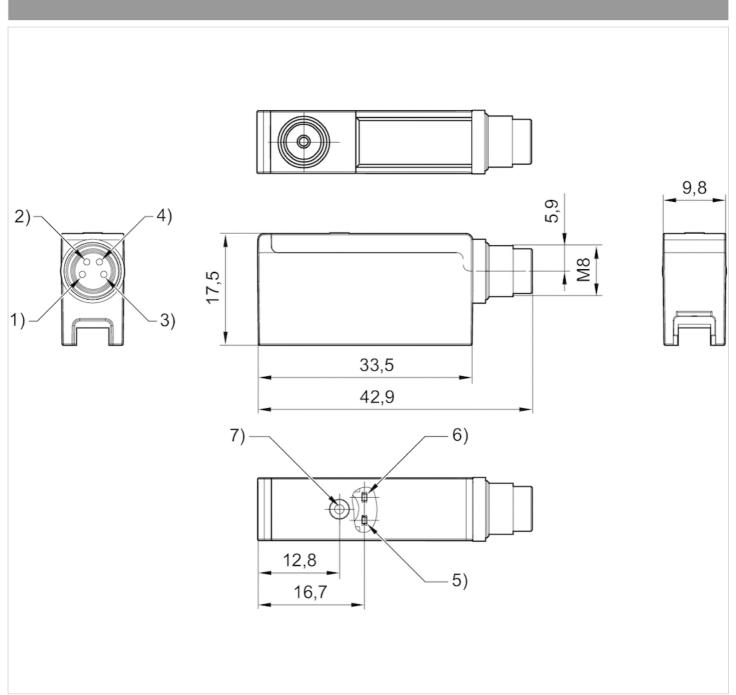


- 1) +UB
- 2) Switch output 2
- 3) GND
- 4) Switch output 1
- 5) LED for switch output 2
- 6) LED for switch output 1
- 7) setting knob





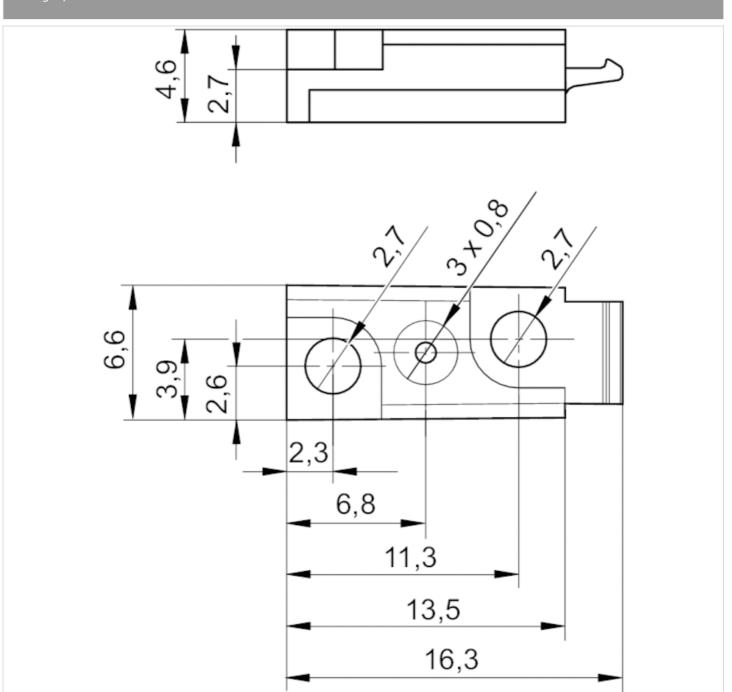
PE6...-



- 1) +UB
- 2) Switch output 2
- 3) GND
- 4) Switch output 1
- 5) LED for switch output 2
- 6) LED for switch output 1
- 7) setting knob

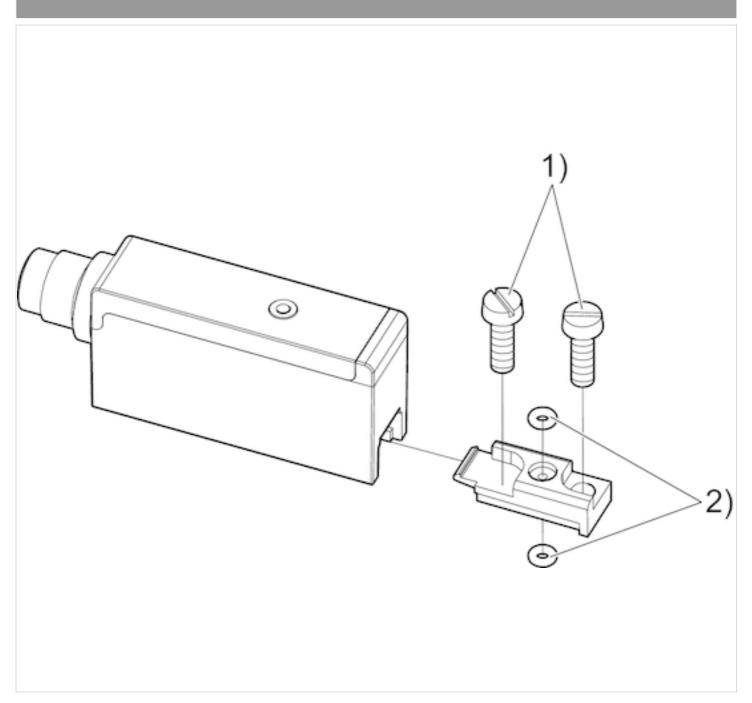


Flange plate, PE6





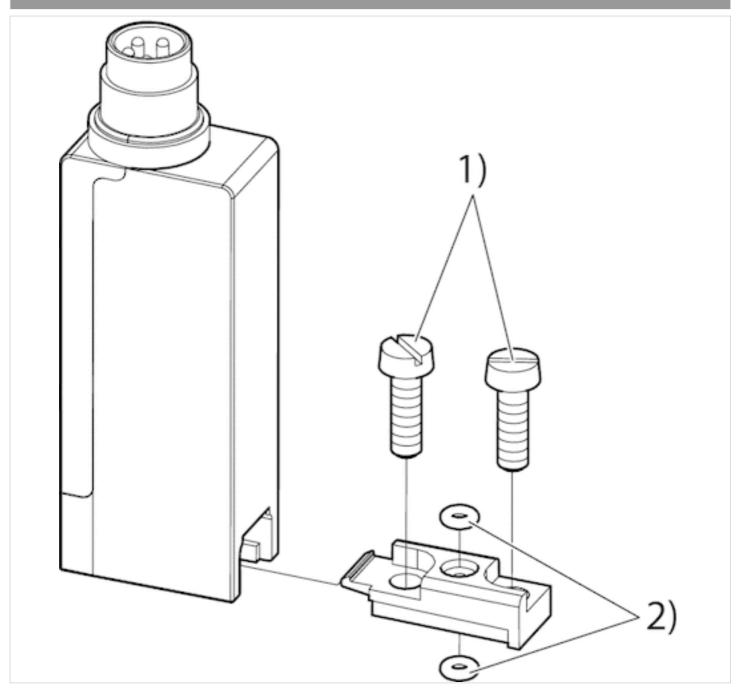
Pressure sensor, PE6...-l



- 1) Cylinder screw M2,5x8
- 2) O-ring Ø1,2x1 (included)



Pressure sensor, PE6...-S

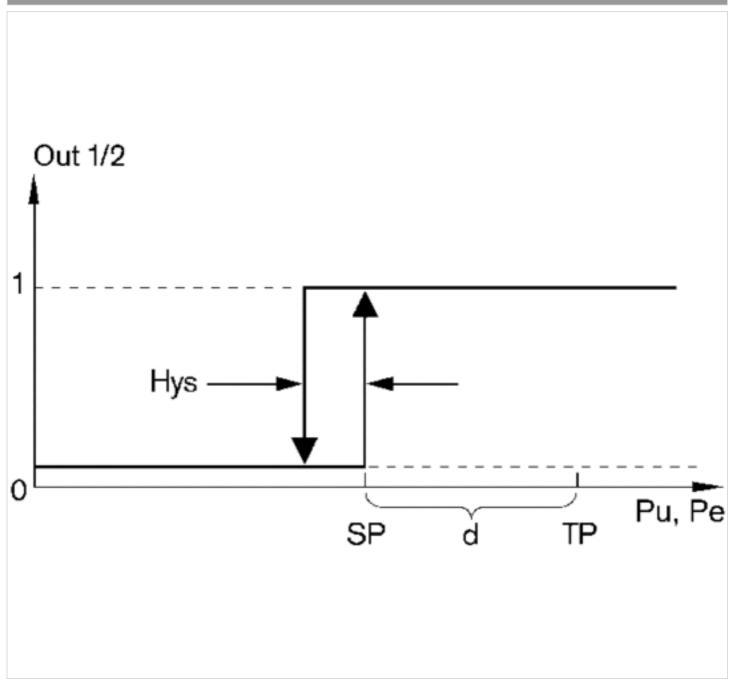


- 1) Cylinder screw M2,5x8
- 2) O-ring Ø1,2x1 (included)



Diagrams

Switching function (fixed hysteresis)



Vacuum sensor: d=20% Pressure sensor: d=5%

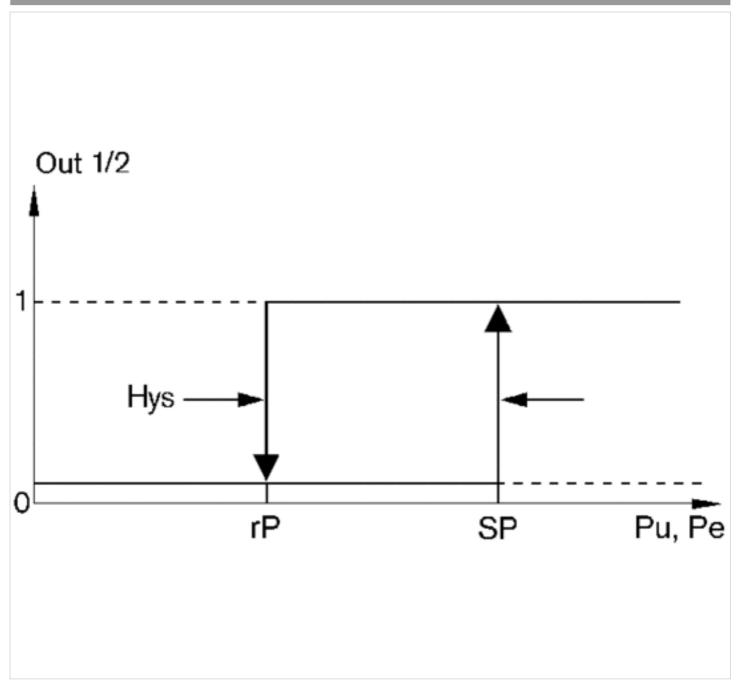
SP = switch-on point, TP = teach point

OUT: switch output

Pu = pressure 0 - vacuum sensor Pe = pressure > 0 - pressure sensor



Switching function (adjustable hysteresis)



SP = switch-on point, rP = resetting point

OUT: switch output

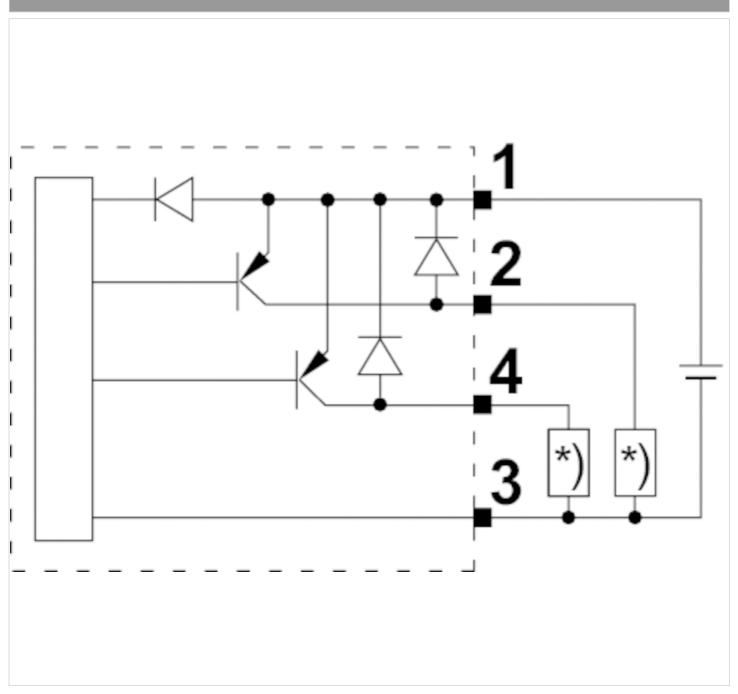
Pu = pressure 0 - vacuum sensor

Pe = pressure > 0 - pressure sensor



Circuit diagram

Block diagram



^{*} Storable postion

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and again.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners.

2020 Emerson Electric Co. All rights reserved.

