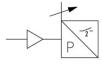
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#### **AVENTICS Series PE6 Pressure sensors**

The AVENTICS Series PE6 is an electronic pressure sensor, which combines electronic precision and versatile function with ideal user friendliness.





#### Technical information

Industry Industrial
Output signal 2 x PNP

Type electronic

Type with sensor element based on piezo resistance

Mounting orientation L (horizontal)

Operating pressure min 0 bar
Operating pressure max 10 bar
Protection against overpressure 15 bar

Switching logic NO (make contact)

Max. shock resistance 10 g

Vibration resistance 10 - 55 Hz, 0,1 mm

Precision (% of full scale value) ± 1 %

Hysteresis 2% of the final value, fixed

Measurement Relative pressure

Display LED Compressed air connection Ø 1,2x1

Compressed air connection type Flange with O-ring

Min. working pressure 0 bar Max. working pressure 10 bar

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Min. medium temperature 0 °C

Max. medium temperature 50 °C

Medium Compressed air

Electrical connection 2, type Plug Electrical connection 2. thread size M8x1 Electrical connection 2, number of poles 4-pin 0°C Min. ambient temperature 60°C Max. ambient temperature Max. oil content of compressed air 1 mg/m<sup>3</sup> Operating pressure display 2 LED Switching time < 2 ms

Resetting point adjustable 0 ... 100% Switching point adjustable 0 ... 100%

Quiescent current consumption<20 mA</th>Protection classIP40Short circuit resistanceclockingMounting typesvia flangeWeight0.006 kg

#### Material

Housing material Polycarbonate

Seal material Acrylonitrile butadiene rubber

Material electrical connection Brass

Part No. R412007884

#### 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

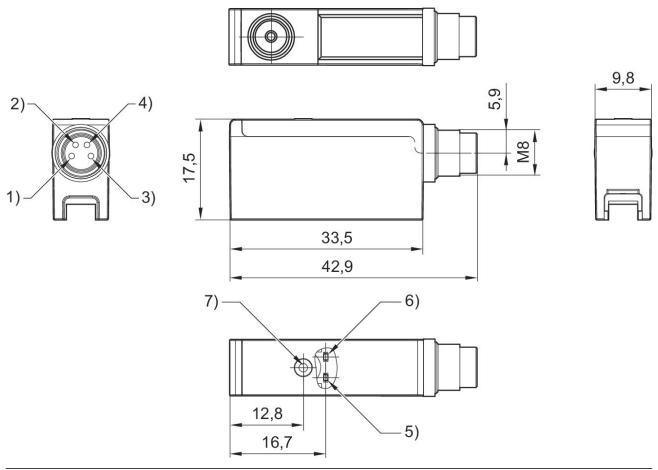
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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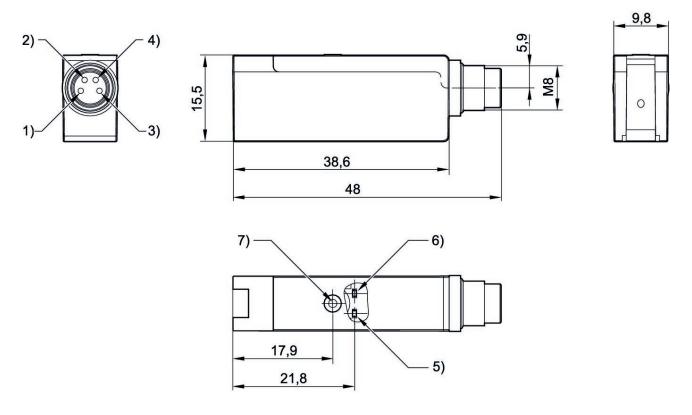
## PE6...-L



<sup>1) +</sup>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

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PE6...-S

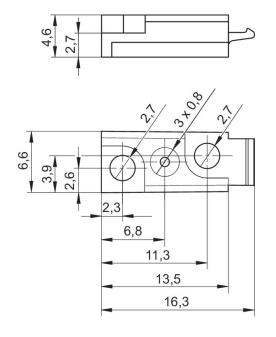


<sup>1) +</sup>UB
2) Switch output 2
3) GND
4) Switch output 1
5) LED for switch output 2 6) LED for switch output 1 7) setting knob

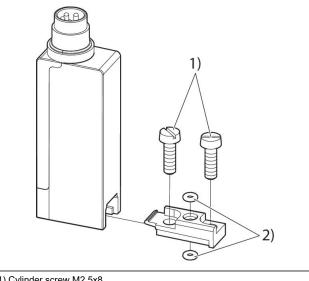
# Pressure sensor, Series PE6

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### Flange plate PE6

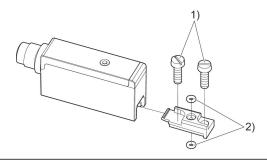


### Pressure sensor PE6...-S



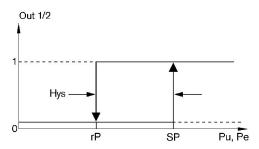
- 1) Cylinder screw M2,5x8
- 2) O-ring Ø1,2x1 (included)

### Pressure sensor PE6...-L



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

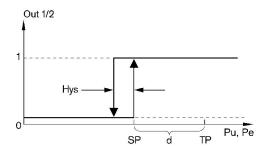
## Switching function (adjustable hysteresis)



- SP = switch-on point, rP = resetting point OUT: switch output
- Pu = pressure < 0 vacuum sensor Pe = pressure > 0 pressure sensor

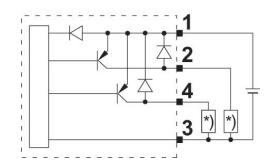
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## Switching function (fixed hysteresis)



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

## Block diagram



\* Storable postion