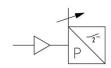
#### **AVENTICS Series PE6 Pressure sensors**

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





#### **Technical information**

Industry Output signal Type Type Mounting orientation Operating pressure min Operating pressure max Protection against overpressure Switching logic Max. shock resistance Vibration resistance Precision (% of full scale value) **Hysteresis** Measurement Display Compressed air connection Compressed air connection type Min. working pressure Max. working pressure

Industrial 2 x PNP electronic with sensor element based on piezo resistance L (horizontal) -1 bar 0 bar 5 bar NO (make contact) 10 g 10 - 55 Hz, 0,1 mm ±1% 2% of the final value, fixed **Relative pressure** LED Ø 1,2x1 Flange with O-ring -1 bar 0 bar



R412007880

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
Min. ambient temperature	0 °C
Max. ambient temperature	60 °C
Max. oil content of compressed air	1 mg/m³
Operating pressure display	2 LED
Switching time	< 2 ms
Resetting point	adjustable 0 100%
Switching point	adjustable 0 100%
Quiescent current consumption	<20 mA
Protection class	IP40
Short circuit resistance	clocking
Mounting types	via flange
Weight	0.006 kg

#### Material

Housing material	Polycarbonate
Seal material	Acrylonitrile butadiene rubber
Material electrical connection	Brass
Part No.	R412007880

### **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.

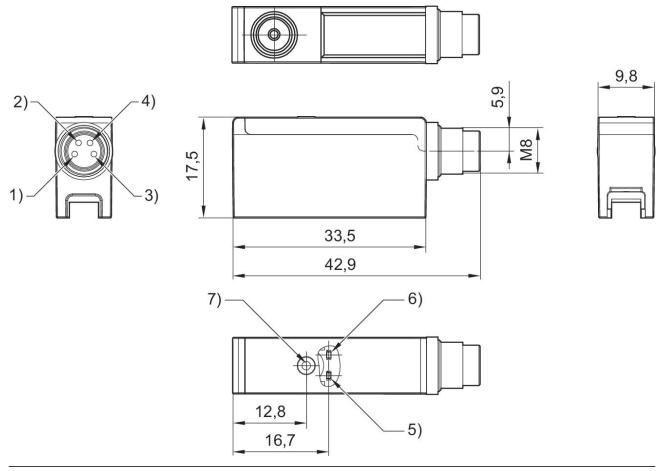
The oil content of compressed air must remain constant during the life cycle.

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

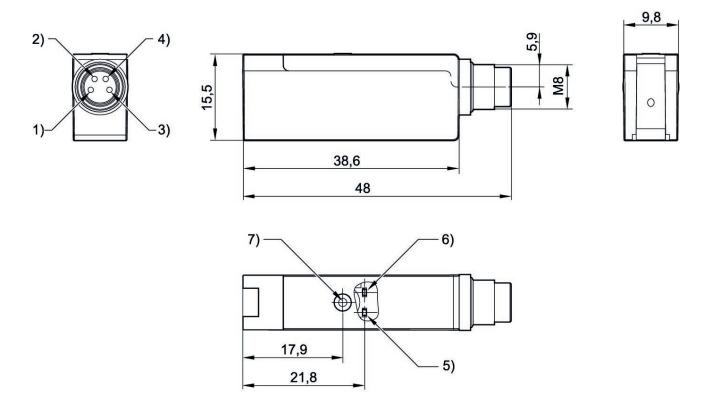


1) +UB 2) Switch output 2 3) GND 4) Switch output 1 5) LED for switch output 2 6) LED for switch output 1 7) setting knob



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### PE6...-S

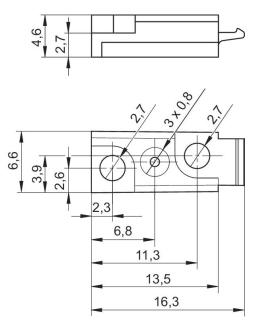


1) +UB 2) Switch output 2 3) GND 4) Switch output 1 5) LED for switch output 2 6) LED for switch output 1 7) setting knob

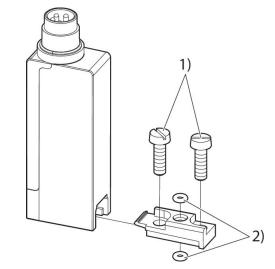


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#### Flange plate PE6



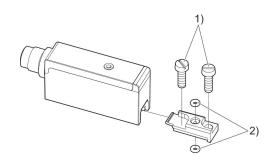
## Pressure sensor PE6...-S



1) Cylinder screw M2,5x8

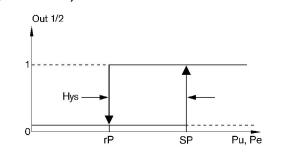
2) O-ring Ø1,2x1 (included)

#### Pressure sensor PE6...-L



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

### Switching function (adjustable hysteresis)



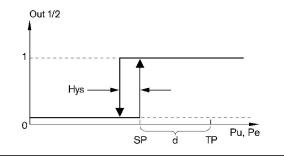
SP = switch-on point, rP = resetting point OUT: switch output

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



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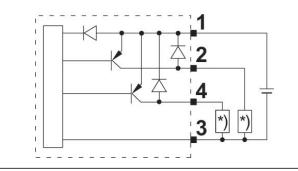
## Switching function (fixed hysteresis)



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

