

# **Pressure Sensor Combined PST 1**



▶ Pressure: 0.1 to 1.15 bar

► Temperature: -40 to 130°C

▶ Power supply: 5 V

▶ Weight: 24 g

This sensor is designed to measure absolute air pressure, especially the air box pressure of gasoline or Diesel engines plus temperature.

An integrated circuit combines a piezo-resistive sensor element and electronic systems for signalamplification and temperature-compensation. The output of the sensor is an analog, ratio metric signal.

#### **Application** Application 1 0.1 to 1.15 bar (a) Application 2 -40 to 130°C Reference Absolute Max. pressure 5 bar -40 to 130°C Operating temp. range Media temp. range -40 to 130°C Storage temp. range 0 to 40°C Max. vibration According to ISO 16750-3

#### **Technical Specifications Mechanical Data** Mounting M6 12.05 ± 0.8 mm Fitting Weight w/o wire 24 g O-ring 7.59 x 2.62 mm Sealing **Electrical Data** Power supply U<sub>s</sub> 4.75 to 5.25 V 16 V Max. power supply Full scale output $U_A$ at 5 V 0.4 to 4.65 V

Current Is

9 mA

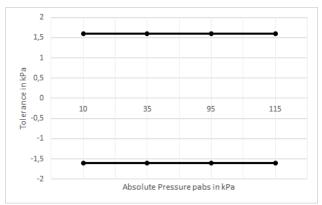
#### Characteristic 1

1 ms
10 to 85°C
± 0.016 bar
± 1.52 %
4,048 mV/bar
-4.76 mV

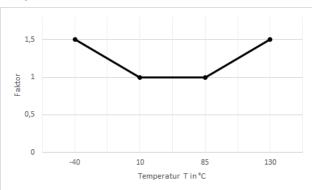
## Characteristic 2

T [°C]	R [Ohm]
-40	45,303
-30	26,108
-20	15,458
-10	9,395
0	5,895
10	3,791
20	2,499
25	2,056
30	1,706
40	1,174
50	833.8
60	595.4
70	435.6
80	322.5
90	243.1
100	186.6
110	144.2
120	112.7
130	89.28

#### **Tolerance**



## **Expansion of Tolerance**



#### **Connectors and Wires**

Connector	Bosch Compact	
Mating connector	D261.205.360-01	
Pin 1	Ground	
Pin 2	Temperature Signal	
Pin 3	Power Supply	
Pin 4	Pressure Signal	
Various motorsport and automotive connectors are available on		

Various motorsport and automotive connectors are available on request.

# **Installation Notes**

This sensor is designed for engines using ROZ95, ROZ98, M15, E22 and Diesel.

The sensor can be connected directly to most control units.

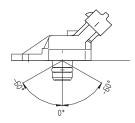
To avoid noise, an ECU-input circuit with a RC-low pass filter (tau = 2 ms) is recommended.

Use engine oil (5W40) as O-Ring grease (no silicone based grease).

Avoid miss-pinning (max. 5 minutes at I = 0.3 A).

Please find further application hints in the offer drawing and free download of the sensor configuration file (\*.sdf) for the Bosch Data Logging System at our homepage.

To avoid damage caused by condensate the maximum mounting position from vertical is +-60°.



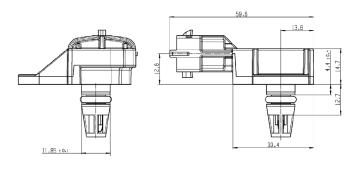
# **Safety Note**

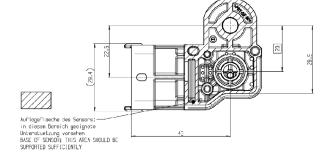
The sensor is not intended to be used for safety related applications without appropriate measures for signal validation in the application system.

# **Ordering Information**

**Pressure Sensor Combined PST 1** Order number 0261.230.333

# **Dimensions**





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