

Pressure Sensor Fluid PSS-10



- ► Application: 1 to 11 bar
- ▶ Response time: 1.5 ms
- Pressure reference type: Absolut
- ▶ Power supply: 5 V
- ▶ Weight: 45 g

This sensor is designed to measure absolute pressure of various kinds of media e.g. Diesel, gasoline, water, engine oil, transmission oil or air.

The sensor uses stainless steel measuring cells with piezo-resistive measuring bridges in thin layer technique. These are hermetically welded together with stainless steel pressure ports. This guarantees a complete media compatibility.

The main benefit of this sensor is the high quality of a production part at a low price.

Application

Application	1 to 11 bar (a)
Pressure reference type	absolute
Max. pressure	20 bar
Operating temp. range	-40 to 125°C (140°C)
Media temp. range	-40 to 125°C (140°C)
Storage temp. range	-20 to 50°C
Bio fuel compatibility	E 85 / M 100
Max. vibration	100 m/s² rms at 10 to 2,000 Hz

Technical Specifications

Mechanical Data

Male thread	M10x1
Wrench size	17 mm
Installation torque	15 Nm
Weight w/o wire	45 g
Sealing	O-ring 7.65 x 1.63 mm

Electrical Data

Electrical Data	
Power supply U _s	4.75 to 5.25 V
Max power supply U _s max	± 30 V
Full scale output U_A	10 to 90 % $\rm U_{s}$ ratiometric
Current I _s	8 mA
Characteristic	
Response time T10/90	1.5 ms
Compensated range	0 to 90°C
Tolerance (FS) at $U_s = 5 V$	± 0.1 bar
Tolerance (FS)	±1%
Sensitivity	400 mV/bar at U_s =5 V
Offset	100 mV at U_s =5 V
Connectors and Wire	25
Connector	Bosch Compact
Mating connector	3-pole Compact
	D261.205.339-01
Pin 1	Gnd
Pin 2	Sig
Pin 3	Us

Installation Notes

Pin 4

Pin 5

The PSS-10 can be connected directly to most control units.

The sensor has a protection for over voltage, reverse polarity and short-circuit.

Please do not fix the sensor directly to the engine block to avoid undesired strong vibrations.

Each mounting orientation is possible.

The sensor meets all EMV, EMC and ESD automotive standards.

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.

Safety Note

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

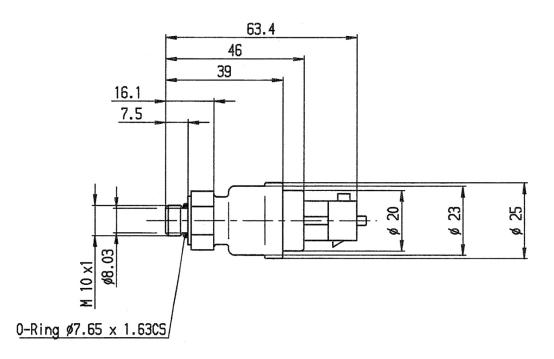
Dimensions

Legal Restrictions

Due to embargo restrictions, sale of this product in Russia, Belarus, Iran, Syria, and North Korea is prohibited.

Ordering Information

Pressure Sensor Fluid PSS-10 Order number B261.209.341-01



Represented by:

Europe: Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany TeL: +49 7062 911 9101 Fax: +49 7062 911 79104 motorsport@bosch.com www.bosch-motorsport.de North America: Bosch Engineering North America Motorsport 38000 Hills Tech Drive Farmington Hills, MI 48331-3417 United States of America Tel.: +1 248 876 2977 Fax: +1 248 876 7373 motorsport@bosch.com www.bosch.motorsport.com

 \circledast Bosch Engineering GmbH 2022 | Data subject to change without notice | , V, 02. Nov 2022

Asia-Pacific: Bosch Engineering Japan K.K. Motorsport 18F Queen's Tower C, 2-3-5 Minato Mirai Nishi-ku, Yokohama-shi Kanagawa 220-6218 Japan TeL: +81 45 650 5610 Fax: +81 45 650 5611 www.bosch-motorsport.jp

Australia, New Zealand and South

Africa: Robert Bosch Pty. Ltd Motorsport 1555 Centre Road Clayton, Victoria, 3168 Australia Tel.: +61 (3) 9541 3901 motor.sport@au.bosch.com