AiM Infotech

Pressure sensor
0-10 bar/0-145 PSI

Release 1.01

1
Introduction

This datasheet explains how to use AiM 0-10 bar (0-145 PSI) pressure sensor.
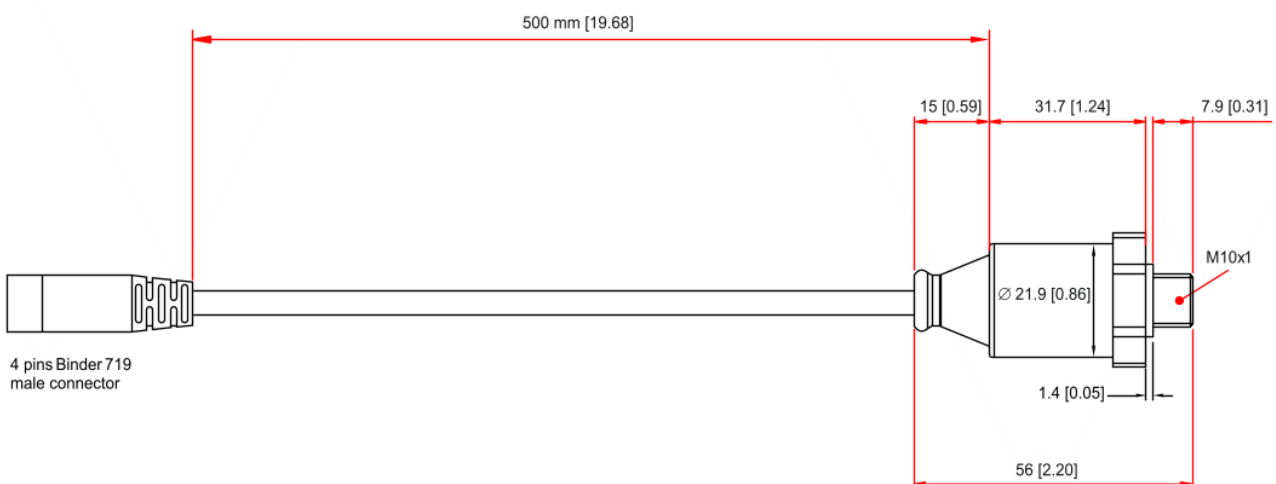The sensor **part number** is:

- Turbo pressure sensor   0-10 bar/0-145 PSI   **X05SNP31010R**

This sensor fits the measurement of oil and fuel pressure and needs a careful installation. This is why AiM suggest to address to a specialized workshop.

2
Dimensions, pinout and technical characteristics

The drawing here below shows sensor dimensions in millimetres [inches].

The sensor ends with a 4 pins Binder 719 male connector. The image below shows the connector pinout from solder termination side.

Pin	Function	Cable colour
1	Analog signal	White
2	GND	Black
3	+Vb	Red
4	Not connected	

The table here below shows the sensor electrical characteristics.

Technical characteristics	Value
Pressure type	Absolute
Output signal	1-5 V
Accuracy	<+/1 0.5%
Temperature working range	from -40° to 125°
Sensor electrical range	1000Mv/0Bar 5000Mv/10Bar
Sealing	IP66
Excitation	10-32 VDC; 1-5 V
Consumption	<10 mA
Housing	304 stainless steel
Weight	60g
Sensor thread	M10*1
Cable length	50 mm

3
Extension cables

The sensor is sold with a 50 cm cable. Standard and custom length extension cables are available; standard length are: 0,5 m, 1m and 1,5 m.

Product part number changes according to their length and to the product the sensor is to be connected to.

Extension cable for connection to:
- MXG
- MXS
- MXL2
- MXS Strada
- MXL Strada/Pista/Pro05

Part numbers:
V02PCB05B – cable length: 500mm
V02PCB10B – cable length: 1000mm
V02PCB15B – cable length: 1500mm
V02PCB20B – cable length: 2000mm
V02PCB25B – cable length: 2500mm
V02PCB30B – cable length: 3000mm

Extension cable for connection to:
- Channel Expansion
- EVO4
- EVO4S.

Part numbers:
V02PCB05BTXG – cable length: 500mm
V02PCB10BTXG – cable length: 1000mm
V02PCB15BTXG – cable length: 1500mm
V02PCB20BTXG – cable length: 2000mm
V02PCB25BTXG – cable length: 2500mm
V02PCB30BTXG – cable length: 3000mm