AiM Infotech

AiM pressure sensor
0-50 PSI

Release 1.00

1
Introduction

This datasheet explains how to use AiM 0-50 PSI pressure sensor.
The sensor **part number** is:

- Pressure sensor   0-50 PSI 1/8 NPT   **X05PSA00050P18**

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 sensors dimensions in millimetres [inches].

0-50 PSI 1/8 NPT
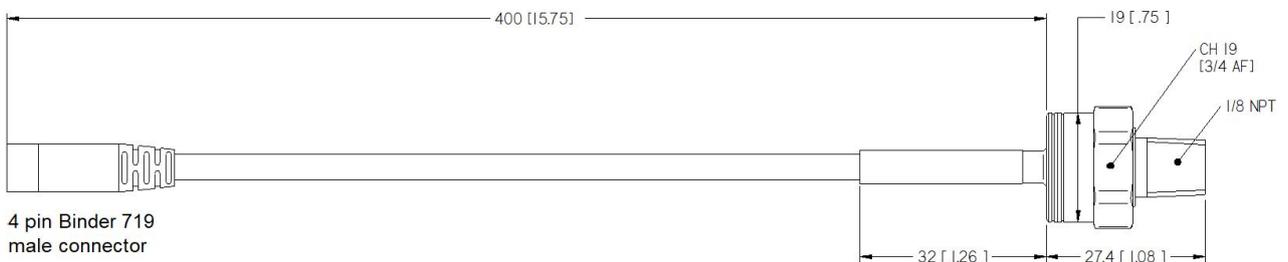
The sensor ends with a 4 pins Binder 719 male connector. The image below shows the connector pinout from solder termination side.
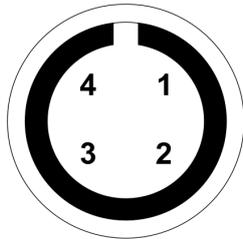
Pin	Function	Cable colour
1	Analog signal	White
2	GND	Black
3	+Vb	Red
4	Not connected	

The table here below shows the sensor electrical characteristics.

Technical characteristics	Value
Supply	8-16 V
Accuracy	< +/- 0.5% FS (CLNH – combined non-linearity and hysteresis)
Output signal	from 0.5 V to 4.5 V
Characterisation	500 mV/ 0 PSI 4500 mV/ 50 PSI
Consumption	< 10 mA
Temperature working range	from -20°C to 135°C
Sealing	IP66
Housing	316 stainless steel
Weight	30 g
Cable length	400 mm
Thread	1/8 NPT

3
Extension cables

The sensor is sold with a 40 cm cable. Standard length extension cables are available, whose part number changes according to their length and to the product the sensor is to be connected to.

Extension cable for connection to:
- MXG/MXG 1.2/MXG 1.2 Strada
- MXS/MXS 1.2/MXS Strada/MXS 1.2 Strada
- MXP/MXP Strada
- MXL2
- MXm
- EVO5
- 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