

AiM Infotech

AiM 0-100 bar
pressure sensor

Release 1.02





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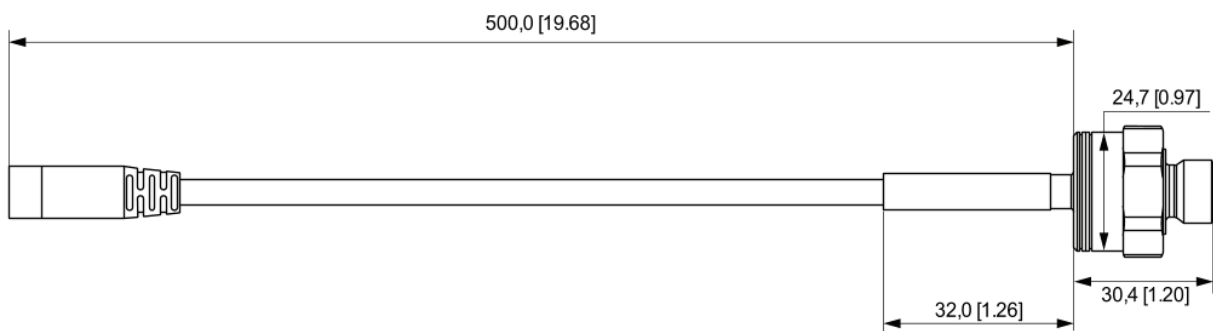
Introduction

This datasheet explains how to use AiM 0-100 bar pressure sensor. Being able to read up to 100 Bar this sensor fits particularly the reading of brake pressure. It is available with different threads whose **part numbers** are:

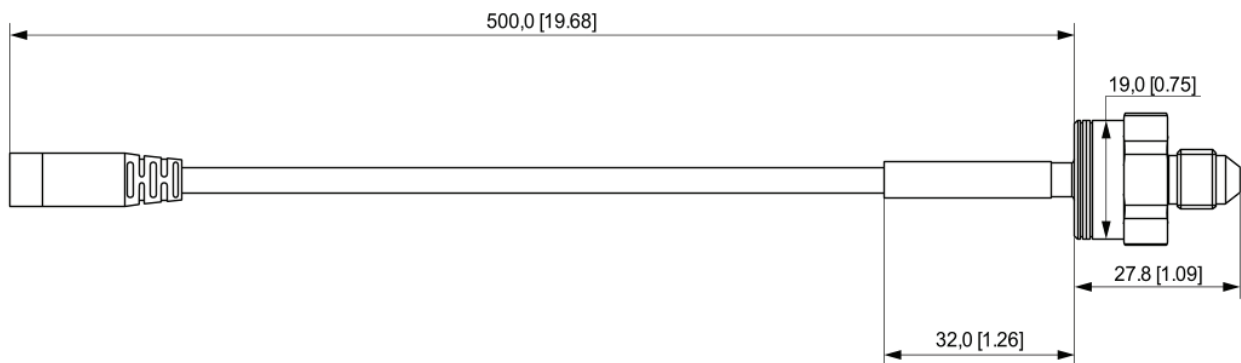
- Pressure sensor 0-100 bar M10 **X05PSA00100B10K**
- Pressure sensor 0-100 bar 3/8 24 **X05PSA00100B38K**

2 Dimensions, wires function, technical characteristics

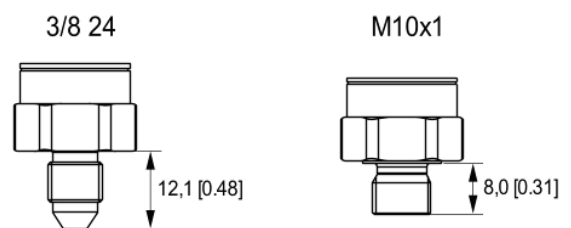
The drawing below shows M10 thread sensor dimensions in millimetres [inches].



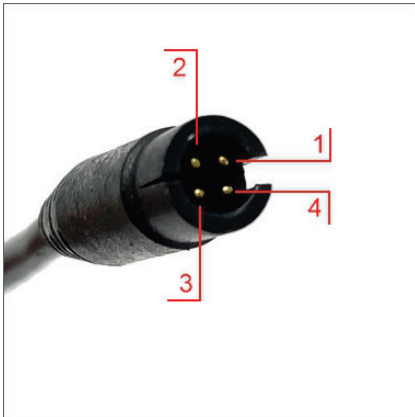
The drawing below shows 3/8 24 thread sensor dimensions in millimetres [inches].



The drawing here on the right shows both threads sensors detail dimensions in mm [inches].



The sensor end with a 4 pins Binder 719 male connector. Here below the connector view – sensor side on the left and device side on the right – are shown; while in the following table is connector pinout.



Pin	Function	Wire colour
1	Analog signal	White
2	GND	Black
3	+Vb 8-16 Vdc	Blue
4	Not connected	

The table here below shows the sensor technical characteristics.

Technical characteristics	Value
Power	8-16 V
Accuracy	$\leq \pm 0.5\%$ FS (CLNH – combined non-linearity and hysteresis)
Characterisation	500 Mv/0 bar 4500Mv/100 bar
Consumption	<10 mA
Temperature working range	from -20° to $+135^{\circ}$ C
Waterproof	IP66
Housing	316 stainless steel
Weight	30g
Cable length	500 mm
Sensor available threads	M10 3/8 24

Extension cables

The sensor is sold with a 50 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 with:

- MXS 1.2/MXP/MXG 1.2
- MXS 1.2 Strada/MXP Strada/MXG1.2 Strada
- MXS/MXL2/MXG
- MXS Strada
- 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 with:

- 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

