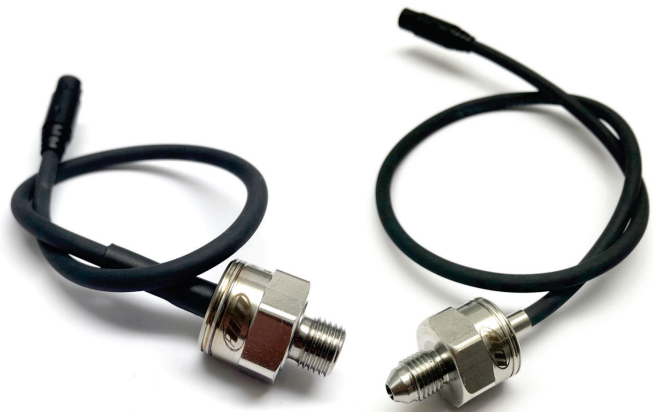


AiM Infotech

AiM car bike  
absolute pressure sensor  
0-5 bar

Release 1.02

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# 1

## Introduction

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AiM devices can sample and record manifold air pressure (MAP). AiM 0-5 bar absolute pressure sensor can read the pressure from -1 (depression) up to +4 absolute bars.

The sensor is available in two thread measures whose **part numbers** are:

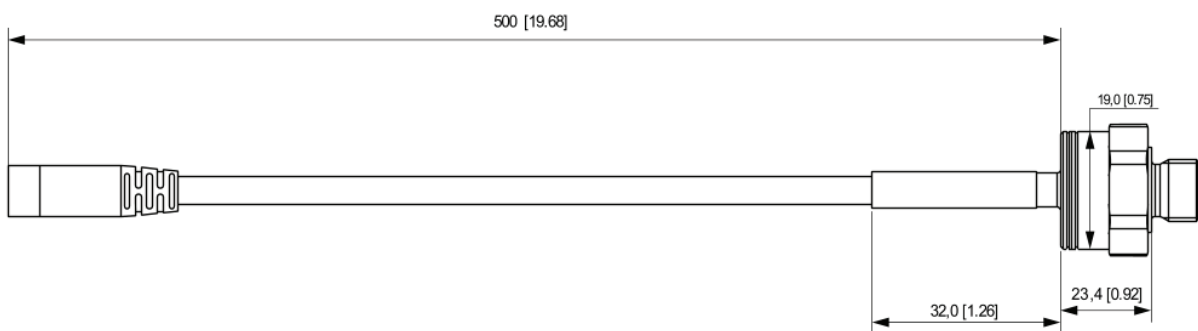
- Pressure sensor 0-5 bar absolute M10 **X05PSA00005B10AK**
- Pressure sensor 0-5 bar absolute 3/8 24 **X05PSA00005B38AK**

This sensor needs a careful installation. This is why AiM suggest to address to a specialized workshop.

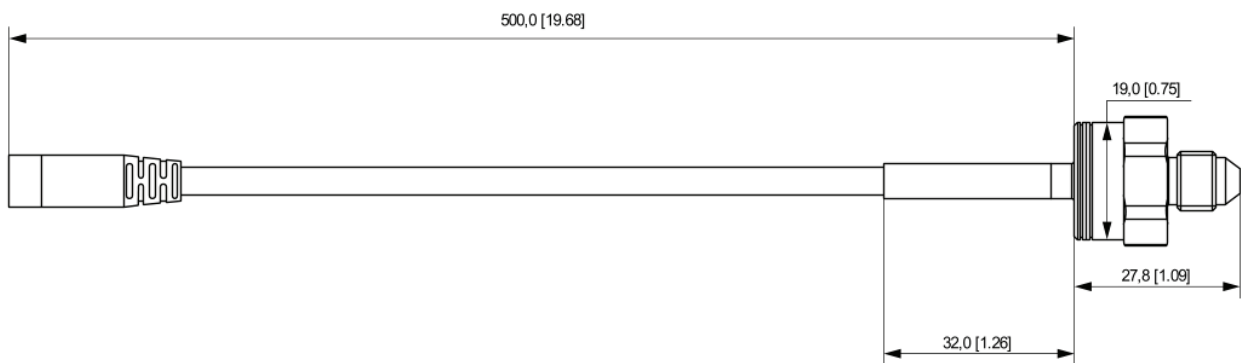
## 2

# Dimensions, pinout and technical characteristics

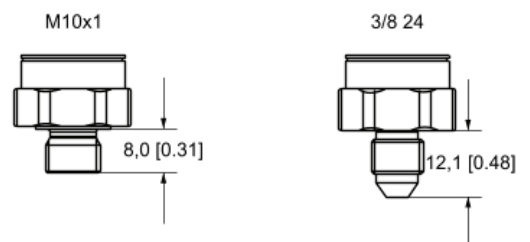
The drawing here below shows **M10** sensors dimensions in millimetres [inches].



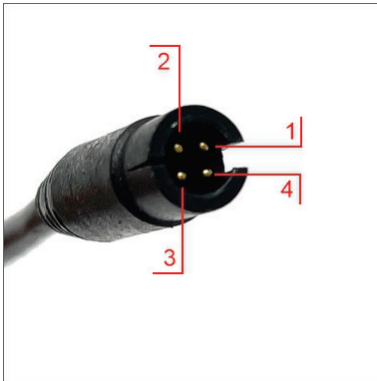
The drawing here below shows **3/8 24** sensors dimensions in millimetres [inches].



The drawing on the right shows the detail of the sensor 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**

- 1
- 2
- 3
- 4

**Function**

- Analog signal
- GND
- +Vb
- Not connected

**Cable colour**

- White
- Black
- Red

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)
Characterisation	500 mV/-1bar 4500 mV/ 4 bar
Consumption	<10 mA
Temperature working range	from -20°C to 135°C
Waterproof	IP66
Housing	316 stainless steel
Weight	30 g
Cable length	400 mm
Threads	M10 3/8 24

### 3

## Extension cables

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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 with:

- MXG 1.2/MXP/MXS 1.2
- MXG/MXL2/MXS
- MXG 1.2 Strada/MXP Strada/MXS 1.2 Strada
- 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

