

AiM Infotech

AiM car bike 0-10 bar  
pressure sensor

Release 1.03

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# 1 Introduction

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AiM devices can measure and sample oil and fuel pressure using a sensor. This is available with different threads and thereby with different **part numbers**:

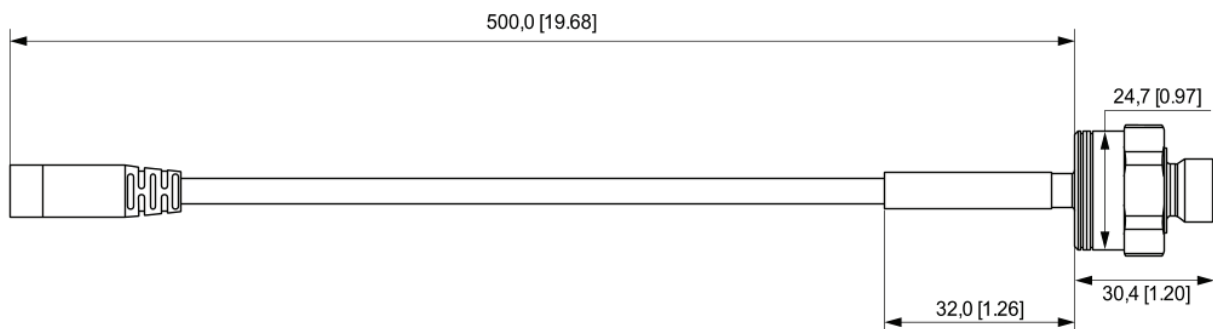
- |                   |                  |                       |
|-------------------|------------------|-----------------------|
| • Pressure sensor | 0-10 bar M10     | <b>X05PSA00010B10</b> |
| • Pressure sensor | 0-10 bar 1/8 NPT | <b>X05PSA00010B18</b> |
| • Pressure sensor | 0-10 bar 3/8 24  | <b>X05PSA00010B38</b> |

The sensor needs a careful installation; for this reason AiM recommends to address to a specialized workshop.

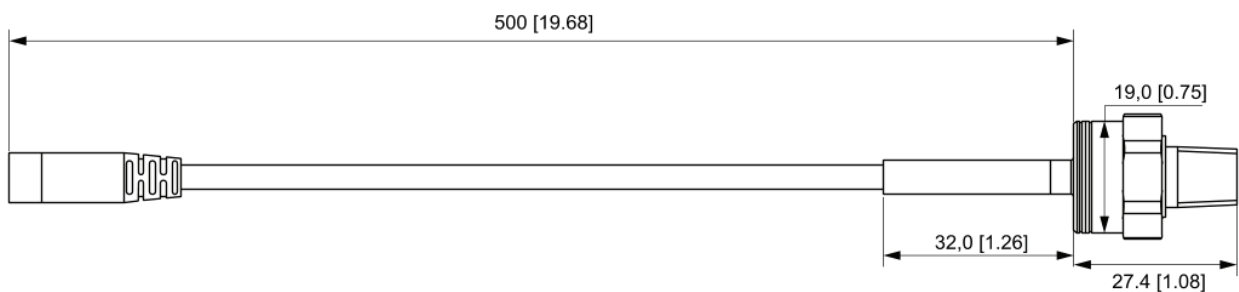
## 2

# Dimensions, pinout and technical characteristics

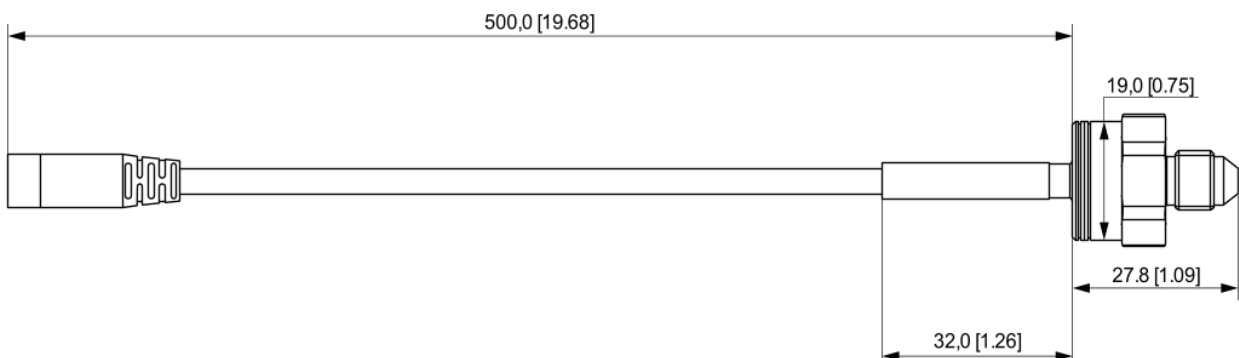
The drawing below shows **M10** sensor dimensions in millimetres [inches].



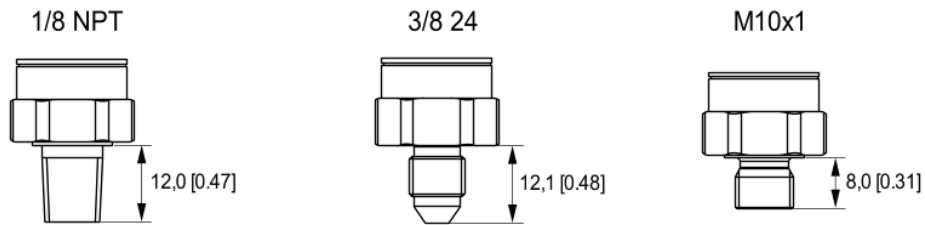
The drawing below shows **1/8 NPT** sensors dimensions in millimetres [inches].



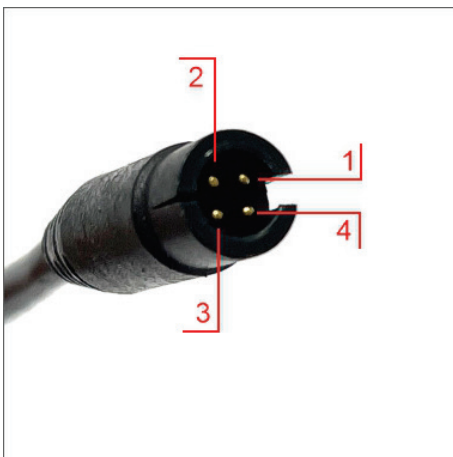
The drawing below shows **3/8 24** sensor dimensions in millimetres [inches].



The image below shows the sensors detail dimensions for all threads in millimetres [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	Cable colour
1	Analog signal	White
2	GND	Black
3	+Vb	Red
4	Not connected	



The table below shows the sensor technical characteristics.

<b>Technical characteristics</b>	<b>Value</b>
Power	8-16 V
Accuracy	$< \pm 0.5\%$ FS (CLNH – combined non linearity ed hysteresis)
Characterization	500 mV/ 0 bar 4500 mV/ 10 bar
Consumption	$< 10$ mA
Temperature working range	from $-20^{\circ}\text{C}$ to $+135^{\circ}\text{C}$
Waterproof	IP66
Housing	316 stainless steel
Weight	30 g
Cable length	500 mm
Available threads	M10 – 1/8 NPT – 3/8 24

### 3

## Extension cables

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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

