

AiM Infotech

Pressure sensor
0-160 bar/0-2320 PSI

Release 1.01



1

Introduction

This datasheet explains how to use 0-160 bar (0-2320 PSI) pressure sensor. This sensor comes with a connection kit including:

- 0-160 bar (0-2320 PSI) pressure sensor with 50 cm cable
- connection kit including:
 - two lock nuts
 - 2 nipples
 - 1 "T" brunch pipe female M10x1 thread

This sensor kit part number is: **X05SNP31160R**

This sensor fits brake pressure measurement and needs a careful installation. This is why AiM suggests to address to a specialized workshop.

2

Installation

To correctly install 0-160 bar brake pressure sensor use the included connection kit shown here below.

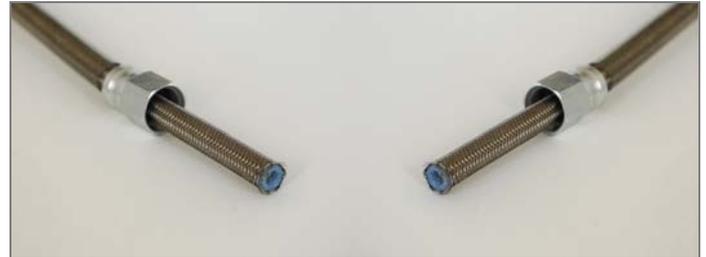


Please follow this procedure:

Cut the braking plant pipe in the point where you want to install the sensor and then repeat the operations here described on both edges of the pipe.



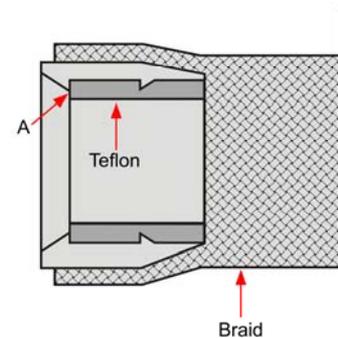
Insert the 2 locking nuts in the cut parts of the pipe.



Insert the nipple under the metallic braid.



Press the nipple until the contact with the internal part of the pipe ("A") is complete and then cover it with the metallic braid.



Place the junction so to determine the desired sensor position before tightening. We suggest to make a reference mark.



Tighten to 0,8 Kg (8 Nm).

Alternatively tighten the threads a quarter turn at a time until the right position is reached.

Please be careful: do not exceed 15 Nm



Install the sensor on the junction wrapping the thread with Teflon to guarantee its tightness.

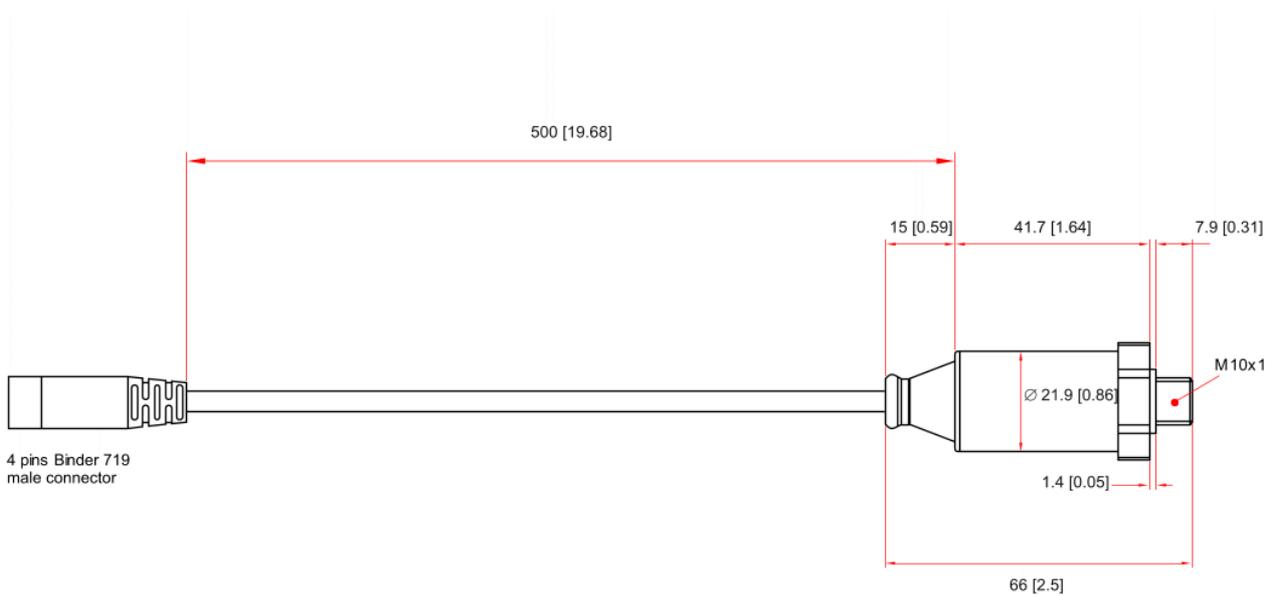


Warning: once the installation is over ensure that the brake circuit is cleared and check its tightness.

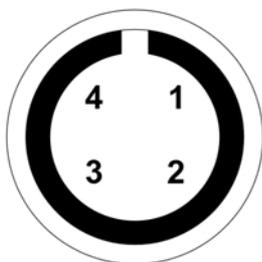
3

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
Accuracy	<+/-1 0.5%
Output signal	1-5 V
Temperature working range	from -40° to 125°
Sensor electrical range	1000Mv/0Bar 5000Mv/160Bar
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

4

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
- EVO5
- 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

