AiM Infotech

AiM pressure sensor
0-160 bar 3/8 24

Release 1.02

# 1
# Introduction

This datasheet explains how to use AiM 0-160 bar 3/8 24 pressure sensor.
The sensor **part number** is:

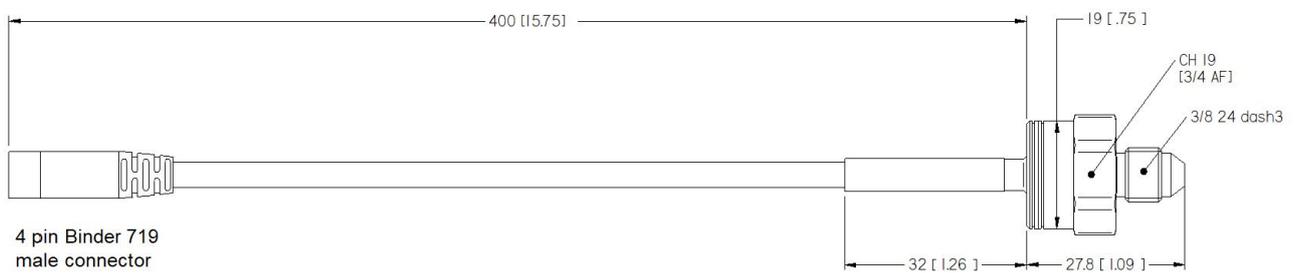- Pressure sensor             0-160 bar 3/8 24             **X05PSA00160B38**

This sensor fits the measurement of oil brake pressure and needs a careful installation. This is why AiM suggest to address to a specialized workshop.
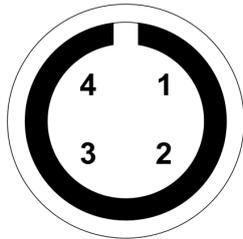
# 2
# Dimensions, pinout and technical characteristics

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

**0-160 bar 3/8 24**

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 bar<br>4500 mV/ 160 bar |
| 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 | 3/8 24 |

# 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