AiM InfoTech

AiM Transmission Belt infrared temperature sensor for UTV/ATV

Release 1.01





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1 Introduction

This datasheet explains how to install the transmission belt temperature optical sensor for UTV/ATV applications. AiM loggers can measure the transmission belt operating temperature using an infrared sensor directly pointed to the measure points. The sensor **part number** is:

• Belt temperature sensor

X05ITS01A0

2 Installation and connection

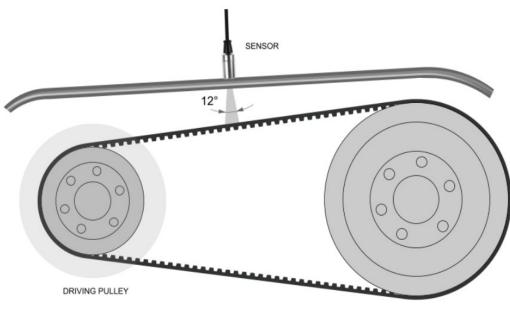
The image below shows an infrared temperature sensor installed from top on the left and from bottom on the right.







The image below shows the sensor field of measure.

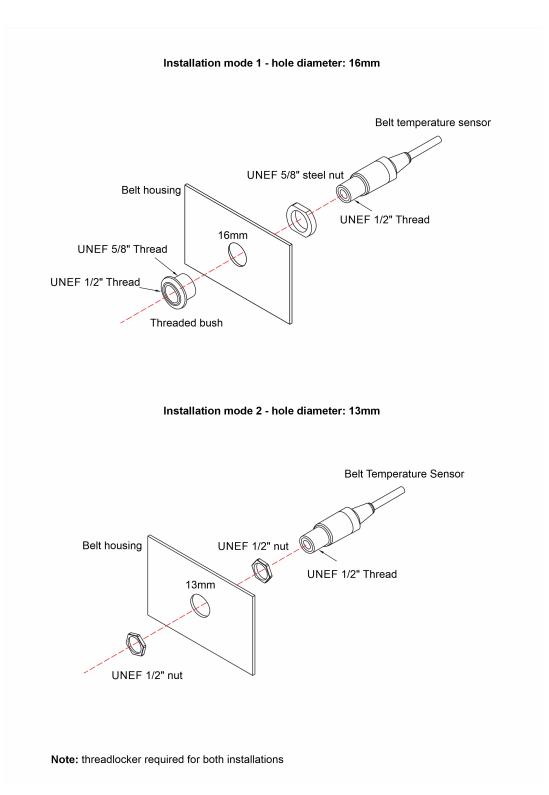


DRIVEN PULLEY





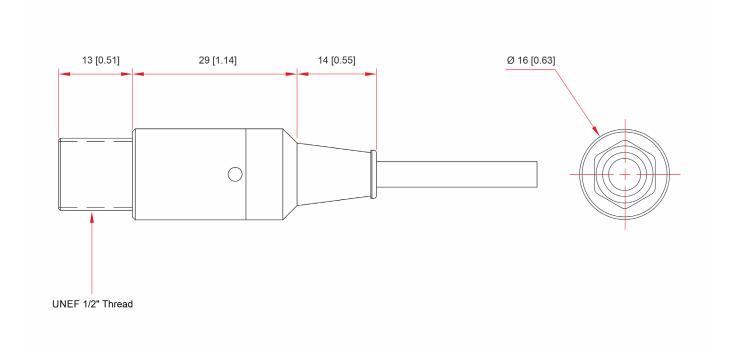
The image below shows how to install the sensor.





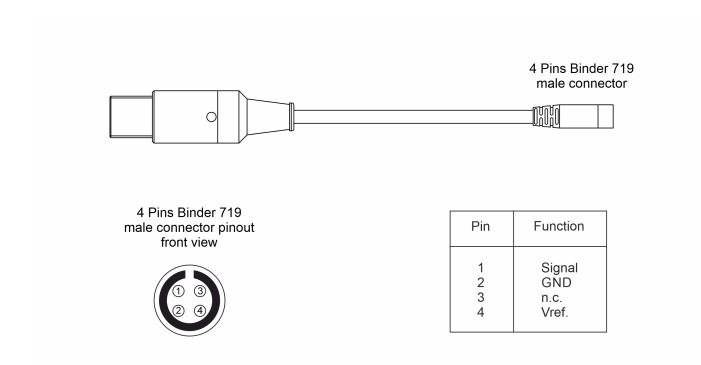
3 Dimensions, pinout and technical characteristics

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





The sensor ends with a 4 pins Binder 719 male connector. Here below is shown the pinout front view.



The sensor technical characteristics are:

Technical feature	Value
Output signal	0-5V
Field of measure	12°
Working range	-20/250°C
Sensor electrical range	820mV/-20°C 2880mV/250°C
Sensor dimensions	57mm/22mm
IP	65
Cable length	250mm

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4 Extension cables

The sensor is sold with a 25 cm cable and standard lengths extension cables are available as optional; it is also possible to ask for specific length extension cables. Extension cable's part numbers change according to their length and to device the sensor is to be connected to.

Mandatory extension cable for connection with:

- EVO4S
- Channel Expansion
- IBTS (Infrared Belt Temperature Sensor)

Part numbers: V02PCB05BTXG – cable length: 500 mm V02PCB10BTXG – cable length: 1000 mm V02PCB15BTXG – cable length: 1500 mm V02PCB20BTXG - cable length: 2000 mm V02PCB25BTXG - cable length: 2500 mm V02PCB30BTXG - cable length: 3000 mm

Extension cable for connection with:

- MXG/MXG Strada
- MXS/MXS Strada
- MXP/MXP Strada
- MXm
- EVO5
- MXL2
- PDM32
- PDM08

Part numers:

V02PCB05B – cable length: 500 mm V02PCB10B – cable length: 1000 mm V02PCB15B – cable length: 1500 mm V02PCB20B - cable length: 2000 mm V02PCB25B - cable length: 2500 mm V02PCB30B - cable length: 3000 mm