

AiM Infotech

Water thermo resistor  
1/8 thread

Release 1.04

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This datasheet gives you the needed information to install and use the water temperature thermo resistor.

This product **part number** is: **X05VNPTA4513BPRS**

# 1

## Introduction

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AiM devices can measure the water temperature using a sensor – thermo resistor – placed in the pipe that goes from the radiator to the cylinder.

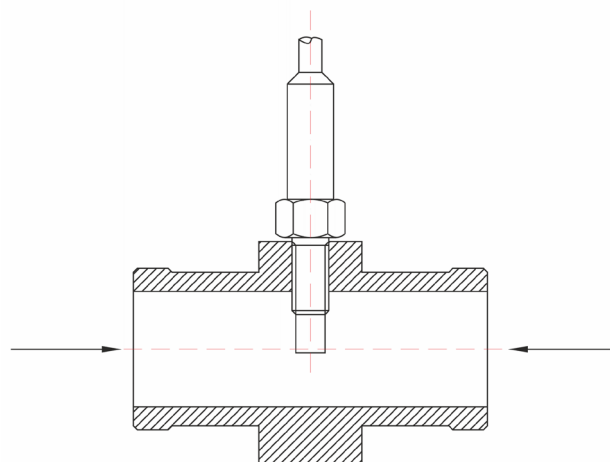
# 2

## Installation notes

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To install this sensor you need a thermo resistor adapter as the one shown here below the left – part number **LAA552610**. On the right you see the thermo resistor correctly installed.

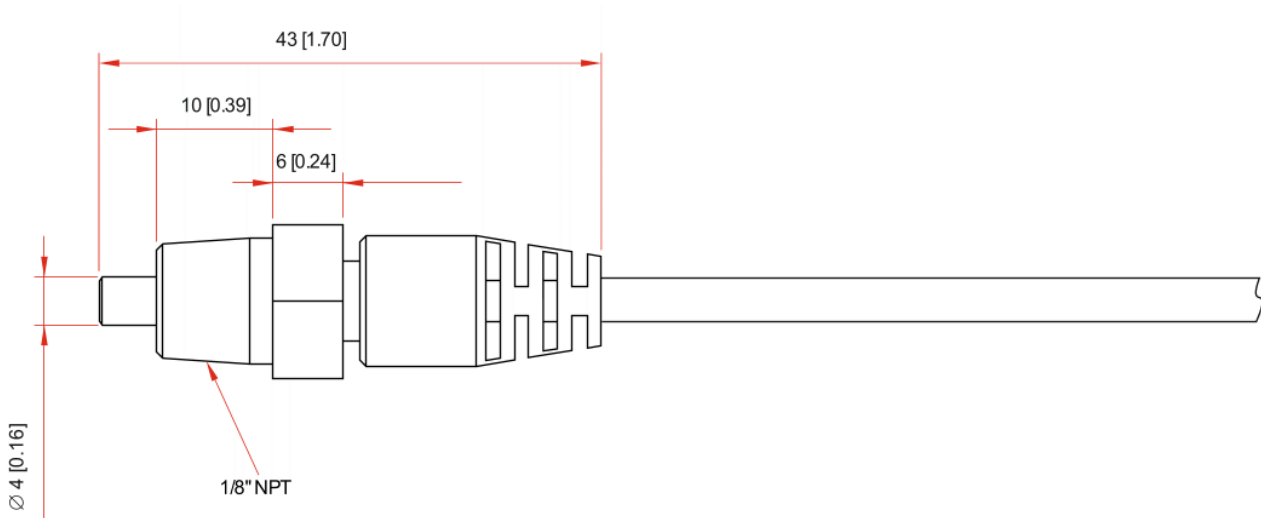
Cut the water rubber pipe and place the adaptor between the two junctions in the points indicated by the arrows below.



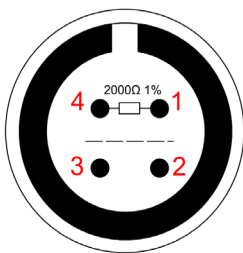
### 3

## Dimensions, pinout and technical characteristics

The drawing here below shows the thermo resistor dimensions in mm [inches].



The thermo resistor ends with a 4 pins Binder 719 male connector. The image below shows the connector pinout from solder termination side.



| Binder connector pin | Function           |
|----------------------|--------------------|
| 1                    | Temperature signal |
| 2                    | GND                |
| 3                    | Not connected      |
| 4                    | Vref               |

**Please note:** as shown here above a 2kΩ 1% resistor is mounted between pin 1 and pin 4

The thermo resistor **electrical characteristics** are:

- temperature working range: 0-150°C [32-302°F]
- cable length 25 cm [9.8" inches]

## 4

### Extension cable

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The thermo resistor comes with a 25 cm cable. A standard extension cable is available as optional.

Extension cable part number is: **V02PCB15BTR**.

