AiM Infotech

Water thermo resistor
1/8 thread

Release 1.05
This datasheet gives you the needed information to install and use the water temperature thermo resistor.

This product **part number** is: **X05NPTA4513BPRS**

### 1 Introduction

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

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.

<table>
<thead>
<tr>
<th>Binder connector pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Temperature signal</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>Not connected</td>
</tr>
<tr>
<td>4</td>
<td>Vref</td>
</tr>
</tbody>
</table>

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

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

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