

AiM Infotech

AiM M10
water temperature
kart thermo resistor

Release 1.06



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Introduction

AiM devices can measure and sample water temperature using a sensor (thermo resistor) placed in the cooling system. The sensor part number is:

- Thermo resistor M10 thread **X05TRM10A4512BPS**

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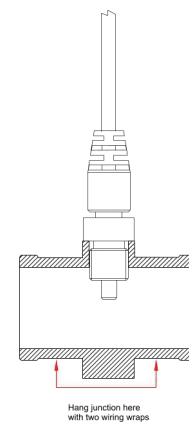
Installation and connection

The thermo resistor must be placed in the cooling system.

It is recommended to install the sensor far from heat and electromagnetic interference sources (like RPM cable or lap receiver cables).

To install the sensor use the optional M10 thread inline water fitting (part number **LAA54120R**) shown here below on the left:

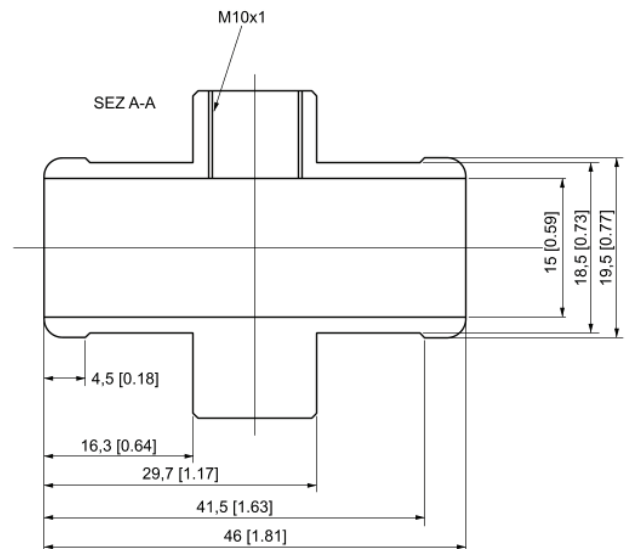
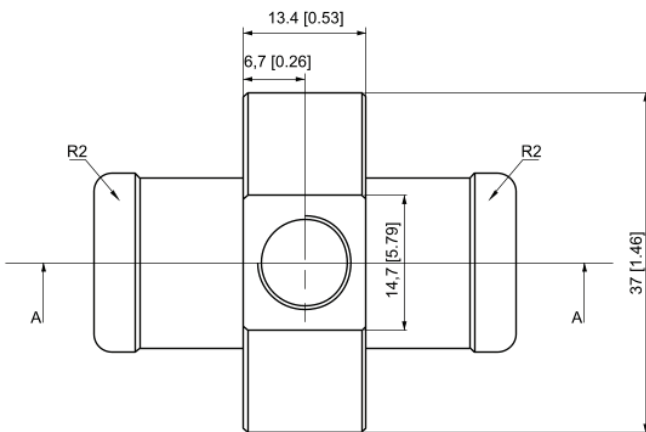
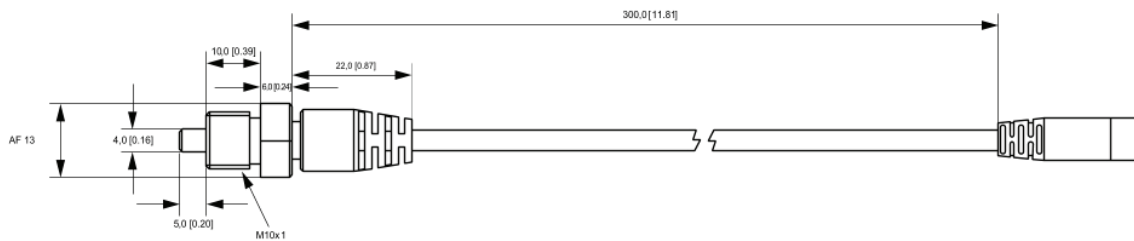
- cut the water pipe
- connect the inline water fitting to the pipe fixing two metal wraps in the points highlighted in the draw below
- screw the thermo resistor in the hole as shown on the right.



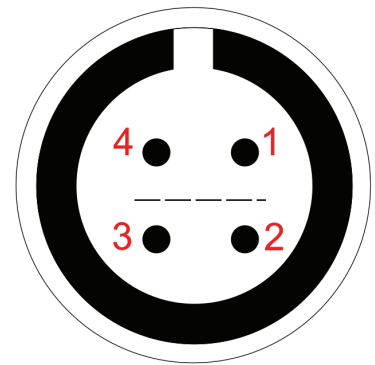
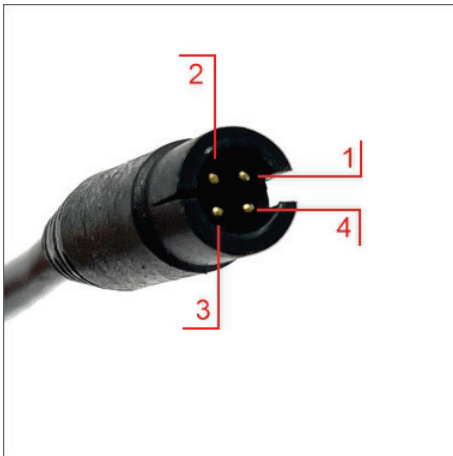
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Dimensions, pinout and technical characteristics

The draws here below show the sensor dimensions on the left and the inline water fitting dimensions on the right in millimetres [inches].



The sensor ends with a 4 pins male 719 Binder connector. Here below you see the connector pinout solder termination view as well as the connection table. Here below the connector view – sensor side on the left and device side on the right – are shown; while in the following table is connector pinout.



Pin	Function
1	Analog signal
2	GND
3	Not connected
4	Not connected

The sensor **technical characteristics** are:

Tecnichal Charatteristics	Value
Temperature working range	0/150°C
Cable lenta	300 mm

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Extension cables

The sensor is sold with a 30 cm cable and standard lengths extension cables are available as optional.

Mandatory extension cable for connection with:

- MyChron5
- MyChron5 S

Part number: **V02PCB15BTR** (cable length: 1500mm)



The sensor is compatible with the following MyChron5-MyChron5S harnesses:

Extension cable for connection with:

- MyChron5 2T
- MyChron5S 2T

Harness with a thermocouple and a thermo-resistor: **V02557110**



Extension cable for connection with:

- MyChron5 2T
- MyChron5S 2T

Harness with two thermo-resistors:**V02557080**
(cable length: 1500mm)

Mandatory extension cable for connection with:

- MyChron Expansion

Part number: **V02552940** (cable length:
1500mm)

