PRODUCT SUMMARY

McLaren ELECTRONIC SYSTEMS

TEMPERATURE SENSOR
EXTRA SMALL AIR

Temperature sensors have a well-defined relationship between electrical resistance and temperature, allowing them to measure temperature precisely. The sensor body is made of a thermally conductive material and is as small as possible to produce a rugged device which gives an accurate measurement of temperature with a fast response.

This sensor is small enough to install in traditional thermocouple locations, but has the advantage of straightforward Pt1000 interfacing.

Electrical

- Sensing element Pt1000
- Nominal resistance 1000ohm @ 0°C
- Accuracy:
  ±0.4K typ, ±1.0K max (0 to +100°C)
  ±1.0K typ, ±1.5K max (+100 to +150°C)
- Response time 4sec typ, 10sec max in still air

Cable and Connection Definition

- 26AWG un-screened cable
- Cable length is shown on the order details but any length is available on request
- Various automotive and military standard connectors are available
- Connection
  Both wires (Signal + and Signal -) are white

Application

- Temperature measurement

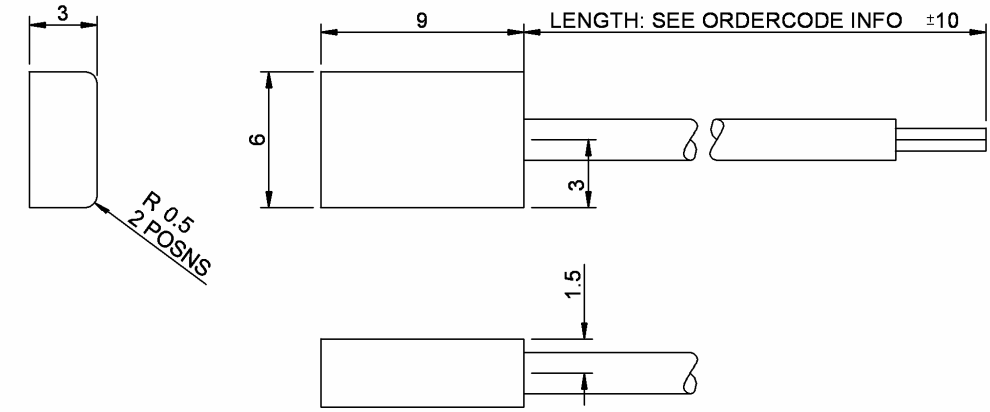
Mechanical

- Aluminium alloy body, hard anodised and dyed black
- Weight less than 45g (including cable)
- Internal joints made with high melting point solder

Design and manufacture is in-house, so if our existing designs do not suit your application, we can provide cost effective customised parts to suit even the most demanding application. No engineering charges are made for simple modifications such as customer specific connectors, cable protection and cable lengths. Please contact our technical consultancy service who will be pleased to help.

Environmental

- Resistant to standard motorsport fluids
- Maximum humidity 100%
- Operating temperature -25 to +150°C
- Vibration 50 to 2500Hz @ 40g 8hrs per axis
- DR25 jacketed cable



Element	Cable Length	Order Code
Pt1000	1000mm	O 030 300 021 044
Pt100	1000mm	O 030 300 021 051

06/08/03

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