

## NTC SERIES NTC1 FLUID TEMPERATURE SENSOR

The NTC1 Series of high performance temperature sensors are designed to measure the temperatures of all types of fluid in demanding motorsport and on-vehicle automotive testing applications.

The sensing element can be either a PT1000 or an NTC Thermistor. Calibration of each is well defined and can be installed into most common ECUs and data logging systems.

Construction choice is either aluminum, brass or stainless steel. With standard motorsports cable and sleeve this will protect from the harsh environments around the vehicle.

The NTC1 Series are race proven in many Formula around the world and offer a reliable and rugged solution for professional engineers.

## Sensors For Motorsport

### Features

- Miniature Size
- -20°F to +300°F
- PT1000 or NTC
- IP67
- Custom Designs

## TECHNICAL SPECIFICATIONS

<b>Ranges (FS)</b>	-20°F to +300°F (-30°C to +150°C)
<b>Accuracy</b>	<±1.8°F ( <±1°C)
<b>Response Time</b>	<10 Seconds
<b>Seal</b>	Viton O-Ring
<b>Sensor Type</b>	NTC 3KΩ or PT1000
<b>Construction</b>	Aluminum, Brass or Stainless Steel
<b>Electrical Connection</b>	12", 26AWG 55Spec + DR25 Sleeve
<b>Mechanical Connection</b>	Please See Part Number Configurator - page 2
<b>Protection Class</b>	IP67
<b>Vibration</b>	Mil-Std-810C, Curve L, 20G
<b>Weight (Excluding Cable)</b>	Aluminum: 0.1oz Brass: 0.7oz Stainless Steel: 0.7oz

	NTC3KΩ	PT1000
Temp°C	Output Ω	Output Ω
-30	53100.00	882.20
-20	29121.00	921.60
-10	16599.00	960.90
0	9795.00	1000.00
10	5970.00	1039.00
20	3747.00	1077.90
25	3000.00	1097.30
30	2417.10	1116.70
40	1598.10	1155.40
50	1080.90	1194.00
60	746.40	1232.40
70	525.60	1270.80
80	376.50	1309.00
90	274.59	1347.10
100	203.46	1385.10
110	153.09	1422.90
120	116.79	1460.70
130	90.28	1498.30
140	70.58	1535.80
150	55.79	1573.30

### Applications

- Coolant
- Water
- Brake
- Fuel
- Oil

sales@pmc1.com  
www.kasensors.com  
Represented by:



# PART NUMBER CONFIGURATOR

## Mounting Thread

M6 x 1 Male - Not in Brass Construction  
 M8 x 1 Male (ISO6149-2)  
 M10 x 1 Male (ISO6149-2)  
 M12 x 1.50 Male (ISO6149-2) - Not in Brass Construction

## Construction

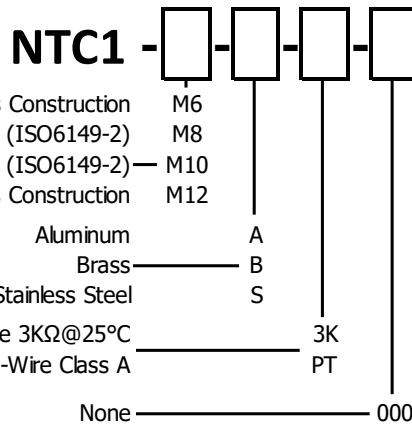
Aluminum  
 Brass  
 Stainless Steel

## Sensor Type

NTC, 2-Wire 3K $\Omega$ @25 $^{\circ}$ C  
 PT1000, 2-Wire Class A

## Special Code

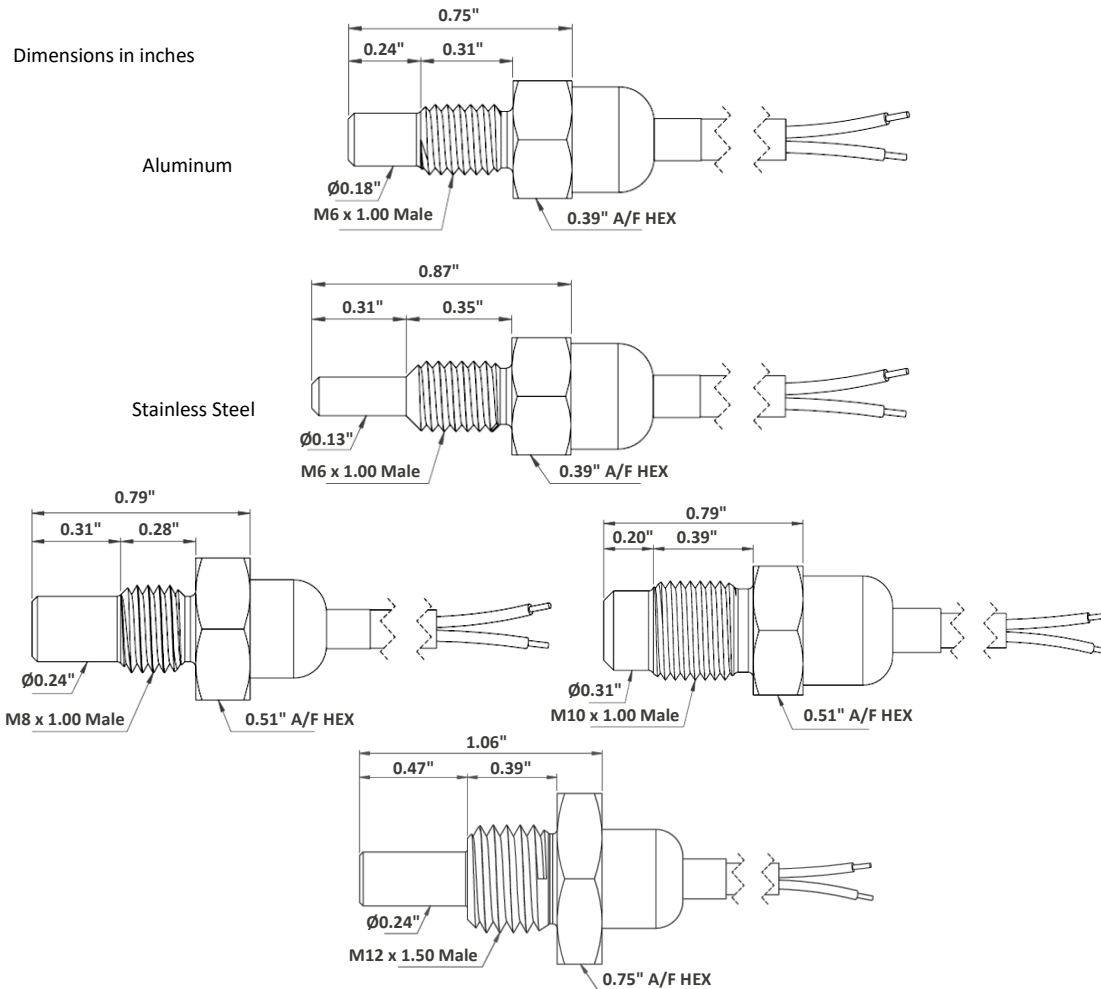
None 000



The KA configuration tool is used to specify a standard KA Sensor, other options are available.

# MECHANICAL DETAILS

Dimensions in inches



# ELECTRICAL DETAILS

Output	Output
Red	White

*Sense*  
*Analyze*  
*Control*

## Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

## Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

## Contact Us

KA Sensors  
 Division of  
 PMC Engineering LLC  
 11 Old Sugar Hollow Rd  
 Danbury, CT 06810  
 USA

Tel: 203-792-8686

Fax: 203-743-2051

sales@pmc1.com

www.kasensors.com