

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

WTS

Water Temperature Sensor



The water temperature sensor monitors the temperature of the coolant that is being pumped around the engine block to cool the engine. This sensor's purpose is to notify the driver of the vehicle if the engine starts to overheat. The goal is to relay an over-temperature engine temperature to the driver, so that the vehicle can be stopped and the engine switched off before the heat causes any permanent damage to the engine.

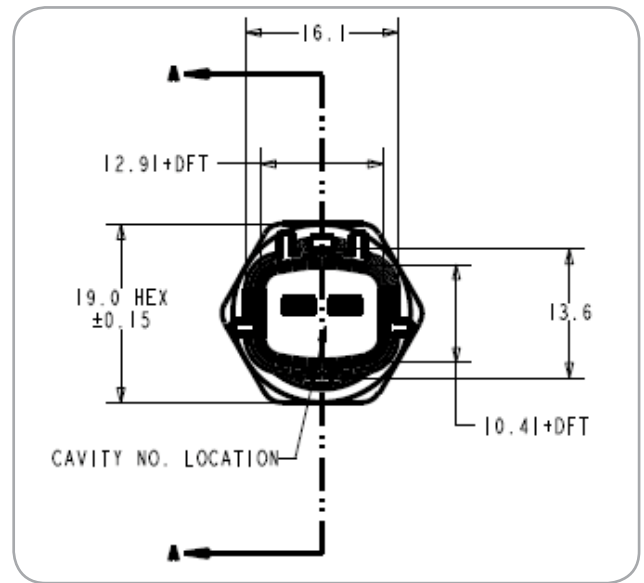
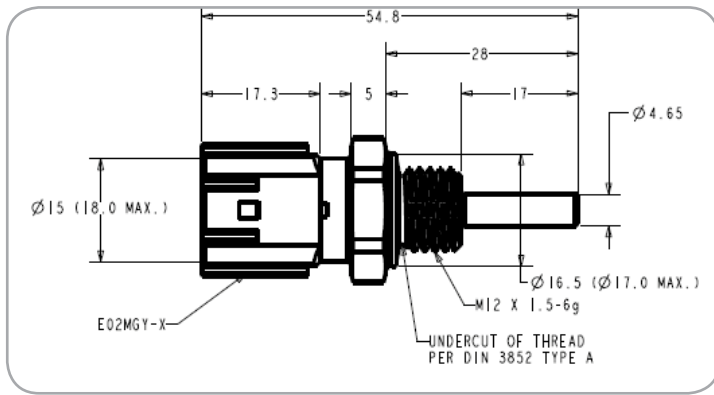
Applications

- Engine coolant temperature
- Engine water temperature

Features

- Integral connector
- 180°C version available = Oil Temperature Sensors (OTS)
- Existing field proven design
- Alternate RvT curves available
- Different geometries to meet package requirements

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Specifications

R @ 25°C

2129 ± 4.87%

B (25/85)

3541

Operating Temperature Range

-30°C to 150°C

Storage Temperature Range

-30° to 160°C

Response Time

5 seconds from 20°C to 100°C in water

Temperature Accuracy

±1.23°@ 25°C

Housing Material

PA66 GF33 (Nylon) Connector with 19 mm Hex
Machined Brass Housing

NTC Part Number

0703-1272-76-S10

Weight

28 gr

Connector

E02MGY-X

Mating Connector

E02FGY- RS

Resistance vs. Temperature Data

Temp. (°C)	R: 148 ohm at 110 °C	Resistance Accuracy (±%)	Temperature Accuracy (±°C)
-40	48314	12.30	2.00
-30	27406	10.25	1.80
-20	16107	8.00	1.51
-10	9779	7.00	1.42
0	6117	6.33	1.37
10	3935	5.67	1.31
20	2598	5.00	1.23
25	2129	4.87	1.23
30	1756	4.74	1.23
40	1213	4.50	1.24
50	855.1	4.29	1.25
60	613.8	4.11	1.26
70	448.3	3.94	1.27
80	332.6	3.78	1.29
90	250.5	3.63	1.30
100	191.3	3.48	1.30
110	148.0	3.38	1.32
120	115.9	3.60	1.47
130	91.76	3.82	1.63
140	73.44	4.48	2.00
150	59.37	5.39	2.50

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