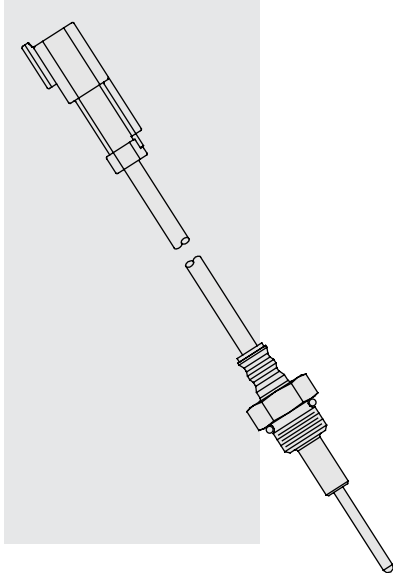


Thermistor Temperature Sensor

Model ERT150



DESCRIPTION

A thermistor style heavy-duty analog temperature sensor intended for use as a steady state temperature sensor for demanding industrial and off-highway equipment.

FEATURES

- Thermistor technology for low cost and reliability.
- Rugged design for durability in harsh conditions.
- Pigtail with connector for installation in tight places.
- Stainless steel body.

RATINGS

PERFORMANCE:

Sensing Temperature: -40°C to 150°C (-40°F to 300°F)

Output Signal: 26246 to 33.89 ohms

Accuracy: ±2°C from 30° to 70°C

Sense Current: <10 mA at 25°C

Response Time 10% to 90%: <15 sec.

Nominal Output at 25°C: 1000 ohms

INSTALLATION REQUIREMENTS:

Electrical Connection: Pigtail with Deutsch DT04-2P

Mating Connector: Deutsch DT06-2S

Port Size: SAE #6

Torque: 20 ±3 Nm (15 ±2 ft.-lb.)

ENVIRONMENTAL RATINGS:

Operating Pressure: 10 bar (145 psi) maximum

Vibration: 20 grms (20 Hz to 20 KHz)

Weather Rating: IP67

O-Ring Material: Fluorocarbon

Short Circuit Protection: Short to +Batt may cause failure of the probe

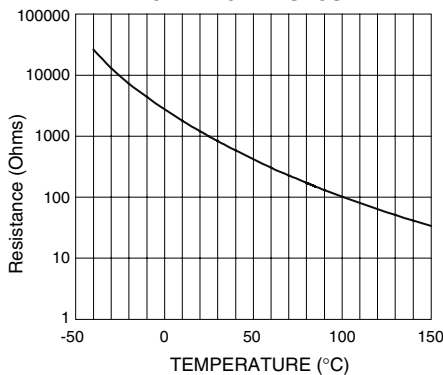
Error Handling: Device measuring will sense open or short (>100 ohms or <5 ohms)

STEINHART-HART CONSTANTS: A = 1.426654 E-03

B = 2.69848 E-04

C = 1.86111 E-07

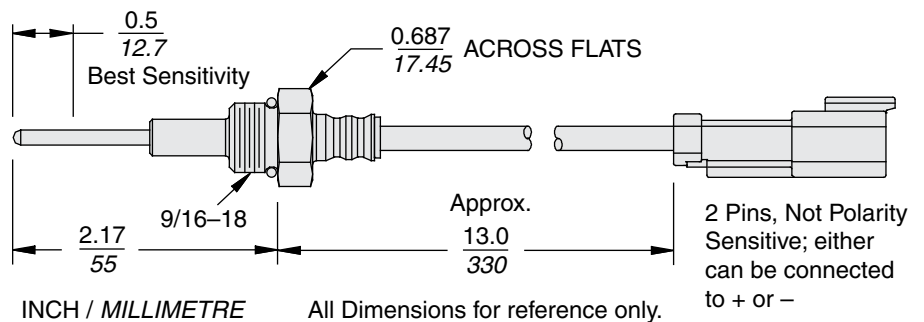
TEMPERATURE vs. RESISTANCE CHARACTERISTICS



Resistance of Thermistor at Key Temperature Points

Temp °C	Resistance (Ohms)
-40°	26246
-20°	7346
0°	2768
20°	1209
25°	1000
30°	831.9
40°	585.2
50°	420
60°	307
70°	228.1
80°	172.1
90°	131.7
100°	102.2
110°	80.21
120°	63.69
130°	51.11
140°	41.43
150°	33.89

DIMENSIONS



TO ORDER

Temperature Sensor	Model: ERT150-R-LD-06	Part No. 4204440
Mating Connector	Deutsch Model: DT06-2S	HF Part No. 4001951