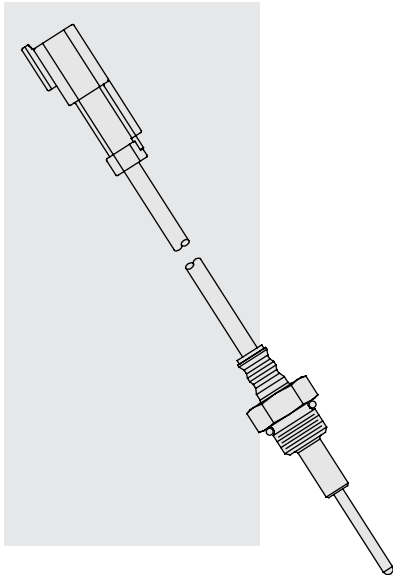# Thermistor Temperature Sensor — Model ERT150

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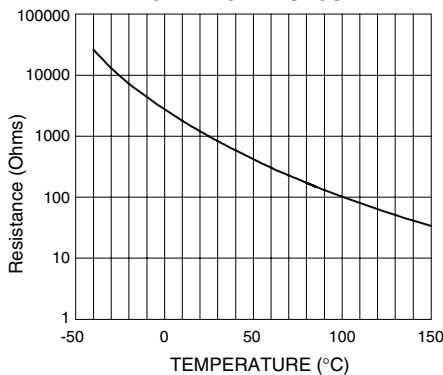**Error Handling:** Device measuring will sense open or short (>100 ohms or <5 ohms)

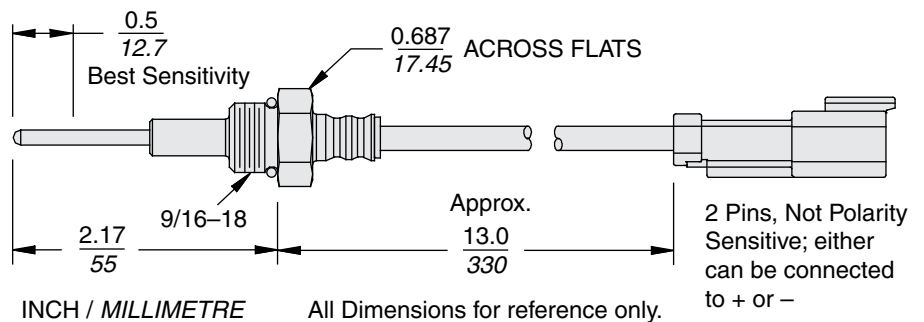**STEINHART-HART CONSTANTS:** A = 1.426654 E-03
B = 2.69848 E-04
C = 1.86111 E-07

TEMPERATURE vs. RESISTANCE CHARACTERISTCS

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

0.5 / 12.7 Best Sensitivity
0.687 / 17.45 ACROSS FLATS
2.17 / 55
9/16–18
Approx. 13.0 / 330
2 Pins, Not Polarity Sensitive; either can be connected to + or –

INCH / *MILLIMETRE*   All Dimensions for reference only.

TO ORDER

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