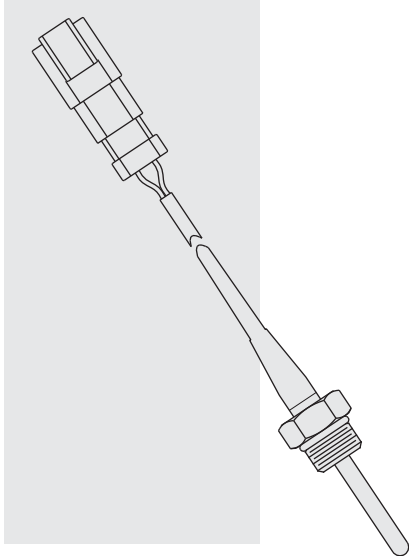


Thermistor Temperature Sensor

Model ERT120



DESCRIPTION

A thermistor style heavy-duty analog temperature sensor with a padded resistor for improved linearity of the input curve. This steady-state sensor is intended for use in demanding industrial and off-highway equipment applications.

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: 5427.9 to 436.3 ohms

Accuracy: ±2°C from 30° to 70°C

Sense Current: <10 mA at 25°C

Response Time 10% to 90%: <30 sec.

Nominal Output at 25°C: 4.9K ohms

INSTALLATION REQUIREMENTS:

Electrical Connection: Pigtail with Deutsch DTM04-2P

Mating Connector: Deutsch DTM06-2S

Port Size: SAE #6

Torque: 48 ±5 Nm (35 ±3.5 ft.-lb.)

ENVIRONMENTAL RATINGS:

Operating Pressure: 10 bar (145 psi) maximum

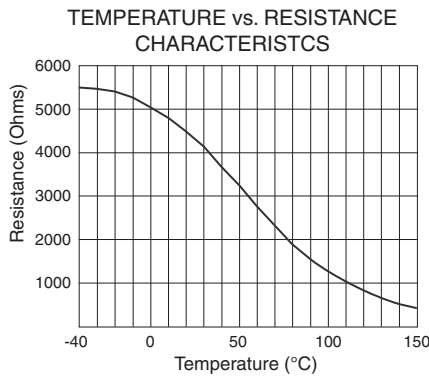
Vibration: 20 grms (20 Hz to 20 KHz)

Weather Rating: IP67

O-Ring Material: Fluorocarbon

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

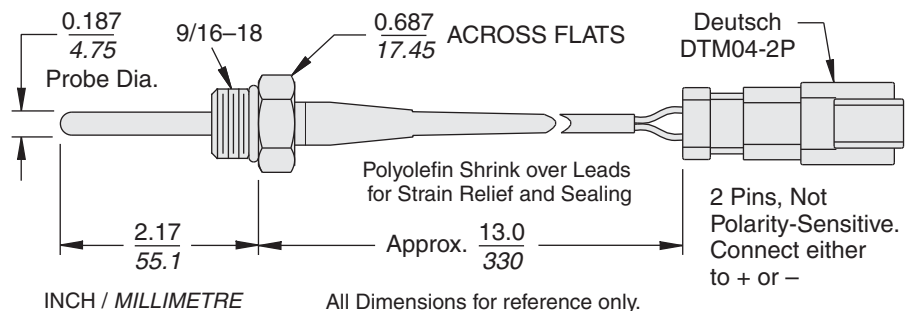
Error Handling: Will sense open or short (>7K ohms or <400 ohms)



Resistance of Thermistor at Key Temperature Points

| Temp °C | Resistance (Ohms) |
|---------|-------------------|
| -40° | 5427.9 |
| -30° | 5380.8 |
| -20° | 5305.4 |
| -10° | 5190.3 |
| 0° | 5022.5 |
| 10° | 4790.2 |
| 20° | 4485.7 |
| 30° | 4112.4 |
| 40° | 3682.4 |
| 50° | 3219.7 |
| 60° | 2752.5 |
| 70° | 2307.3 |
| 80° | 1904.5 |
| 90° | 1554.2 |
| 100° | 1259.0 |
| 110° | 1016.2 |
| 120° | 819.7 |
| 130° | 662.0 |
| 140° | 536.3 |
| 150° | 436.3 |

DIMENSIONS



TO ORDER

| | | |
|-----------------------------|-------------------------|---------------------|
| Temperature Sensor | Model: ERT120-R-LD-06 | Part No. 4206200 |
| Mating Connector Kit | Deutsch Model: DTM06-2S | HF Part No. 4001970 |