Temperature Sensors

Series ILA

In-Line IR Sensor
15:1 Distance-to-Target Ratio, 32 to 932°F

The Series ILA Non-Contact Sensors, measure temperatures from 32 to 932°F (0 to 500°C) and provide a linear 4 to 20 mA, 0 to 50 mV VDC or thermocouple output. The 2-wire signal is compatible with almost any indicator, controller, recorder, data logger, etc., without the need for special interfacing or signal conditioning. They are suitable for most materials such as food, paper, textiles, plastics, leather, tobacco, pharmaceuticals, chemicals, rubber, coal, and asphalt.

SPECIFICATIONS
- Temperature Range: 32 to 932°F (0 to 500°C).
- Accuracy: 1% of reading or 1°C whichever is greater.
- Emissivity: 0.95 (fixed).
- Distance to Target Size Ratio: 15:1.
- Response Time: 240 ms.
- Temperature Limits: Ambient: 32 to 158°F (0 to 70°C).
- Power Requirement: 24 VDC.
- Repeatability: 0.5% of reading or 0.5°C whichever is greater.
- Outputs: 4 to 20 mA, 0 to 50 mV, J type thermocouple.
- Cable Length: 3.3 ft (1 m).
- Spectral Response: 8 to 14 microns.
- Housing: Stainless steel.
- Weight: 3.35 oz (95 g).
- Agency Approval: CE.

<table>
<thead>
<tr>
<th>Model</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILA10</td>
<td>J Thermocouple</td>
</tr>
<tr>
<td>ILA20</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>ILA30</td>
<td>0-50 mV</td>
</tr>
</tbody>
</table>

Series RTD

Resistance Temperature Detector
High Temperature, Mineral Insulated, 316 SS Sheath

Precision RTD (Resistance Temperature Detector) offers excellent accuracy and stability over a wide temperature range. Industry standard 3-wire 100 ohm (DIN) probes are available in 6” (15 cm), 12” (30.5 cm), or 18” (46 cm) sheath lengths with 30” (76 cm) extension cable and spade lug terminals.

SPECIFICATIONS
- Sensor Type: Wire wound, 100 ohm.
- Temperature Range: -328 to 1202°F (-200 to 650°C).
- Pressure Limits: 250 psig (17.2 bar).
- Probe Material: 316 SS.
- Extension Length: 30” (76 cm).
- Standard: DIN .00385 (class B, 0.12%).

APPLICATIONS
Typical applications are: air ducts, bearing temperature, oil temperature indicator, soldering equipment, ovens, environmental test chambers, pharmaceutical mfg., food processing, plastic molding, petroleum & chemical processing, electric generating plants, etc.

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTD-686</td>
<td>6” (15 cm)</td>
<td>1/8”</td>
</tr>
<tr>
<td>RTD-6812</td>
<td>12” (30.5 cm)</td>
<td>1/8”</td>
</tr>
<tr>
<td>RTD-6818</td>
<td>18” (46 cm)</td>
<td>1/8”</td>
</tr>
<tr>
<td>RTD-646</td>
<td>6” (15 cm)</td>
<td>1/4”</td>
</tr>
<tr>
<td>RTD-6412</td>
<td>12” (30.5 cm)</td>
<td>1/4”</td>
</tr>
<tr>
<td>RTD-6418</td>
<td>18” (46 cm)</td>
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