RESISTANCE TEMPERATURE DETECTOR
High Temperature, Mineral Insulated, 316 SS Sheath

Precision SERIES RTD (Resistance Temperature Detector) offers excellent accuracy and stability over a wide temperature range. Industry standard 3-wire 100 Ω (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.

APPLICATIONS
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.

MODEL CHART

<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-646</td>
<td>6” (15 cm)</td>
<td>1/4”</td>
</tr>
</tbody>
</table>

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 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.

FEATURES/BENEFITS
• Non-contact temperature measurement
• J type or 4 to 20 mA output signals

APPLICATIONS
• Industrial processes where non-contact temperature measurement is preferred

MODEL CHART

<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 to 20 mA</td>
</tr>
</tbody>
</table>

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, J type thermocouple.
Cable Length: 3.3’ (1 m).
Spectral Response: 8 to 14 microns.
Housing: SS.
Weight: 3.35 oz (95 g).
Agency Approvals: CE.