The NCIT - LLC model provides the advantages of infrared temperature measurement in a compact, low cost, integrated sensor. Designed for easy integration with a standard 4-wire system, the CI sensor can easily replace traditional contact probes with a type J or K thermocouple output, or with a 0-5 volt dc output if your application is susceptible to noise or requires a longer cable run.

**Design Features**
- Type J or K thermocouple, or 0-5 VDC output
- Two models cover temperature ranges from 32° to 932°F (0° to 932°F)
- NEMA 4 (IP 65) stainless steel housing
- 4:1 optics at 90% energy
- 350 ms response time to 90% energy
- Powered by 12-24 VDC at 20 mA
- Accessories for cooling and air purging

**Measurement Specifications**
- Overall Temperature Range: 32° to 662°F (0° to 350°C)
  - Accuracy: 32° - 240°F (0° - 115°C): ±6°F (±3°C)
  - 241° - 440°F (116° - 225°C): ±5%
  - 441° - 662°F (116° - 225°C): ±±5%
- Overall Temperature Range: 86° to 932°F (30° to 500°C)
  - Accuracy: 86° - 211°F (30° - 99°C): ±10°F (±6°C)
  - 212° - 932°F (100° - 500°C): ±2% or ±6°F (3°C)
- Spectral Response: 7 to 18 microns
- Repeatability: 1% of reading or ±2°F (1°C)
- Temperature Resolution: <1°F (0.5°C)
- Response Time (95%): 350 ms
- Emissivity: Fixed at 0.95

**Electrical Specifications**
- Outputs: Select Type J or K thermocouple or 10 mV / °C
- Output Impedance: 50 ohms
- Min. Load Impedance: 50K ohms
- Power Supply: 12 - 24 Vdc @ 20 mA
- Standard Cable Length: 3.2 ft. (1 m)

**Sensor Specifications**
- Environmental Rating: NEMA 4 (IP65)
- Ambient Temperature Range: 32° to 160°F (0 to 70°C)
  - With air cooling 32° to 200°F (0 to 90°C)
  - With water cooling 32° to 500°F (0 to 260°C)
- Thread: 3/4-16 UNF, optional 18M x 1
- Storage Temperature: -22° to 185°F (-30 to 85°C)
- Relative Humidity: 10 to 90%, non-condensing
- Weight: 4.5 oz. (130g)

**Accessories**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REN25001</td>
<td>Fixed Mounting Bracket</td>
</tr>
<tr>
<td>REN25002</td>
<td>Adjustable Mounting Bracket</td>
</tr>
<tr>
<td>REN25003</td>
<td>Lens Air Purge Collar</td>
</tr>
<tr>
<td>REN25004</td>
<td>Right Angle Mirror</td>
</tr>
</tbody>
</table>

**Ordering Information**
Create an ordering code by filling in the boxes per your requirements and a part number will be assigned.

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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