Non-contact Temperature Measurement

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Non-contact Infrared Temperature Measurement System — NCIT-LC Advanced

REN30101 Housing & Electronics

4" (104 mm)
2.7" (69.3 mm)
2" (52 mm)
2.8" (72 mm)
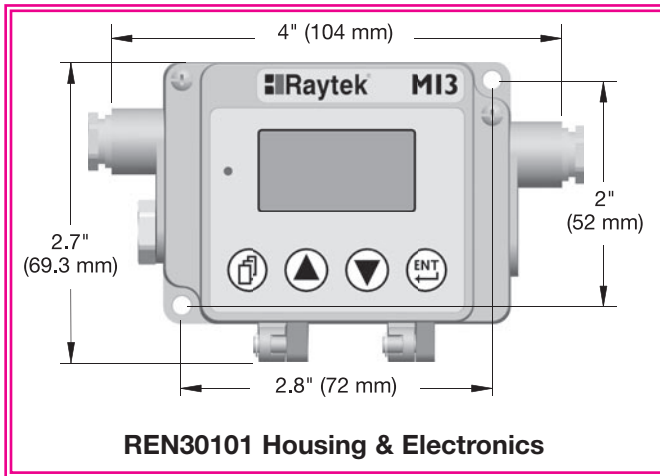
REN30101 NCIT-LC Advanced Electronics and Enclosure Specifications

Digital Interface: USB 2.0 (RS485, Modbus® or Profibus® optional)

Outputs: Scalable 4-20mA, 0-20mA, 0-10V, 0-5V, J, K, R or S thermocouple

Inputs: Digital inputs for emissivity control, ambient background temperature compensation, trigger/hold input

Alarm Relay: 48 VAC, 300 mA optically isolated solid state relay

Output Impedance (TC output): 20 ohms

Minimum Load Impedance: (mV output): 10K ohms

Maximum Loop Impedance: (mV output): 500 ohms

Power Draw: 4W max

Power Supply: 8-32VDC

Housing Construction: Zinc, die cast

Environmental Rating: NEMA 4 (IP65)

Electronics Housing, Max. Temp.: 14° to 150°F (-10° to 65°C)

Storage Temperature: -4° to 185°F (-20 to 85°C)

Relative Humidity: 10 to 95%, non-condensing

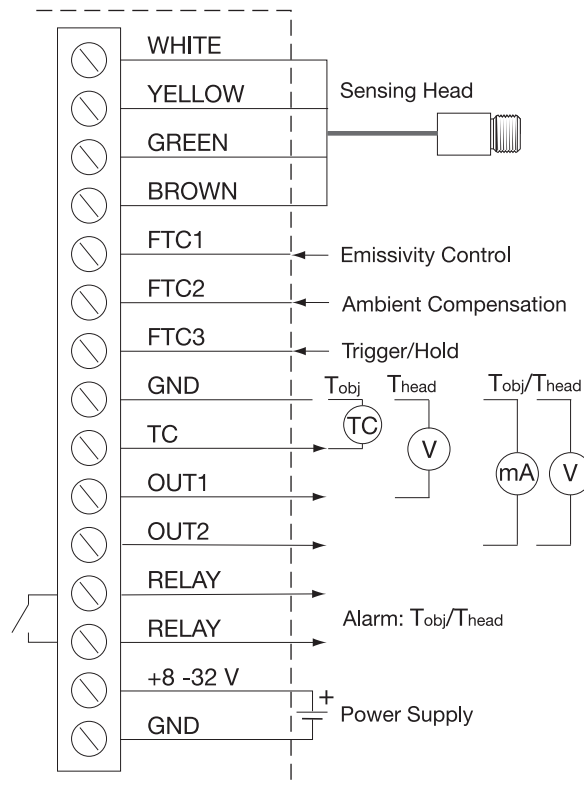**Electronics Weight:** 9.5 oz. (270g)

The **REN30101** NCIT-LC Advanced Electronics and Enclosure can also be ordered with the infrared sensor head pre-installed.

Specify which Sensor Head meets your requirements when ordering.

WHITE
YELLOW — Sensing Head
GREEN
BROWN
FTC1 — Emissivity Control
FTC2 — Ambient Compensation
FTC3 — Trigger/Hold
GND — T_{obj} T_{head} T_{obj}/T_{head}
TC
OUT1
OUT2
RELAY
RELAY — Alarm: T_{obj}/T_{head}
+8 -32 V
GND — Power Supply

**REN30101 NCIT-LC Advanced Electronics
Enclosure Terminal Wiring**

Accessories

Part Number	Description
REN00309	Close focus lens accessory. 10 mm focus distance.
REN00209	Power supply: 12 Vdc at 200 mA, 120 Vac input
REN00301	Air cooling and purging system with 2.8 ft./.8m of hose Maximum ambient temperature: 392°F/200°C
REN00302	Air purge jacket, no cooling
REN00303	Sensing head, adjustable mounting bracket
REN00305	Sensing head, fixed mounting bracket

Ordering Information

Select the part numbers of the NCIT-LC Advanced Sensor Head, Electronics/Enclosure and Accessories that meet your requirements.

Standard lead time is stock to 4 weeks.

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

View Product Inventory @ www.tempco.com