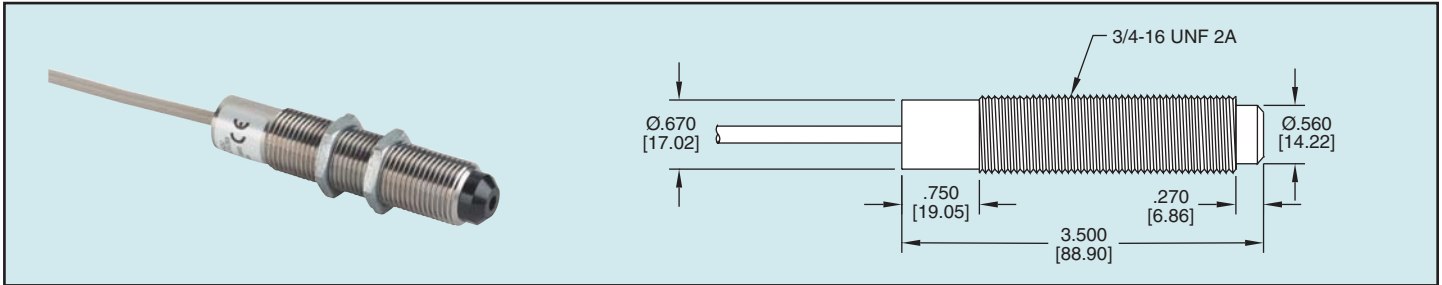




Series
IL

In-Line IR Sensor

4:1 Distance-to-Target Ratio, NEMA 4 (IP65), 32 to 662°F (0 to 350°C)



Replace traditional contact temperature probes with Series IL In-Line IR Sensors. These compact, low cost sensors utilize infrared technology to take non-contact temperature readings between 32 and 662°F (0 to 350°C). The onboard electronics are protected by a rugged NEMA4 (IP65) stainless steel housing. Select between a J-Type thermocouple or a 0-5 volt linear output for connection to a controller, display or transmitter. Includes 2 mounting nuts.

MODELS

Model Number	Output
IL10	J Thermocouple
IL30	0-5V

ACCESSORIES

Model XXXCIACMN Mounting nuts (2 pieces)
 Model XXXCIACFB Fixed Mounting Bracket
 Model XXXCIADJB Adjustable Mounting Bracket
 Model XXXCIDPCS 24VDC Power Supply

SPECIFICATIONS

Temperature Range: 32 to 662°F (0 to 350°C).
Accuracy: ±2% of reading or ±6°F (±3°C) whichever is greater for 32 to 240°F (0 to 115°C); ±5% of reading or ±10°F (±6°C) whichever is greater for 241 to 440°F (116 to 225°C); >±5% of reading for 441 to 662°F (226 to 350°C).
Emissivity: 0.95 fixed.
Distance-to-Target Size Ratio: 4:1.
Resolution: 1°F (0.5°C).
Response Time: 350 ms.
Ambient Operating Temp: 32 to 160°F (0 to 70°C).

Power Requirements: 12-24 VDC.
Repeatability: ±1% of reading or ±2°F (±1°C) whichever is greater.
Storage Temperature: -22 to 185°F (-30 to 85°C).
Outputs: J-thermocouple or 0-5 volt.
Cable Length: 3 ft (0.9 m).
Spectral Response: 7 to 18 microns.
Housing: NEMA 4 (IP65), stainless steel.
Weight: 4.5 oz (130 g).
Agency Approval: CE.

Temperature



Series
IM/IMS

IR Monitoring System

0 to 1000°F (-18 to 538°C), 1/8 DIN Digital Monitor, Dual Alarm Setpoints



Combine a Series IM Panel Meter with a Series IMS IR Sensor to create a complete infrared temperature monitoring system. Series IM 1/8 DIN panel meters display the temperature in °C or °F on a large 4-digit LED. These meters provide advanced infrared processing capabilities such as peak and valley hold, averaging, and a user-adjustable offset. In addition, each monitor provides a user-defined 4-20 mA or thermocouple output as well as adjustable dual setpoints and deadband alarm outputs. The Series IMS IR Sensors are available with standard or close-focus optics and provide target temperature readings with a ±1% accuracy. Model IMS1 has a 35:1 distance-to-target ratio and are ideal for taking the temperatures of objects up to 35 inches away. The 3:0.1 distance-to-target ratio of Model IMS2 allows the sensor to monitor temperatures of objects as small as 0.1 inch at 3 inches away.

MODELS

Model IM1 1/8 DIN Panel Meter
Model IM2 1/8 DIN Panel Meter with relays
Model IMS1* Infrared Sensor, 35:1 (cable sold separately)
Model IMS2* Infrared Sensor, 3:0.1 (close focus optics) (cable sold separately)
Model IMS-L* Infrared sensor with laser sighting and cable, 50:1
 * For water cooled housing add "W" suffix to part number

SPECIFICATIONS

Temperature Range: 0 to 1000°F (-18 to 538°C).
Accuracy: ±1% of reading or ±2°F (±1°C) whichever is greater.
Emissivity: 0.1 to 1.09 digitally adjustable increments of .01.
Distance-to-Target Size Ratio: IMS1: 35:1; IMS2: 3:0.1.
Display: 4-digit, 7-segment LED display.
Resolution: 0.5°F (0.3°C).
Response Time: 500 ms (95%).
Ambient Operating Temp: Sensing head: 32 to 150°F (0 to 65°C); Monitor: 32 to 120°F (0 to 50°C).

Power Requirements: 110/220 VAC.
Repeatability: ±0.5% of reading or ±2°F (±1°C) whichever is greater.
Storage Temperature: -22 to 150°F (-30 to 65°C).
Outputs: User configurable 4-20 mA or thermocouple output (J, K, E, N, R, S, T).
Alarm Outputs: IM1: 5 VDC; IM2: 3A @ 24 VDC SPDT relays.
Spectral Response: 8 to 14 μm.
Housing: Sensor: NEMA 4 (IP65); Meter front panel: NEMA 12.
Weight: Sensor: 0.7 lb (320 g); Meter: 1 lb (454 g).
Agency Approvals: CE.

ACCESSORIES

Model XXXTXXACFB Fixed Mounting Bracket (Included)
 Model XXXTXXACAB Adjustable Mounting Bracket
 Model XXXGPRCB8 26 ft (8 m) Conductor Cable (Not Included)