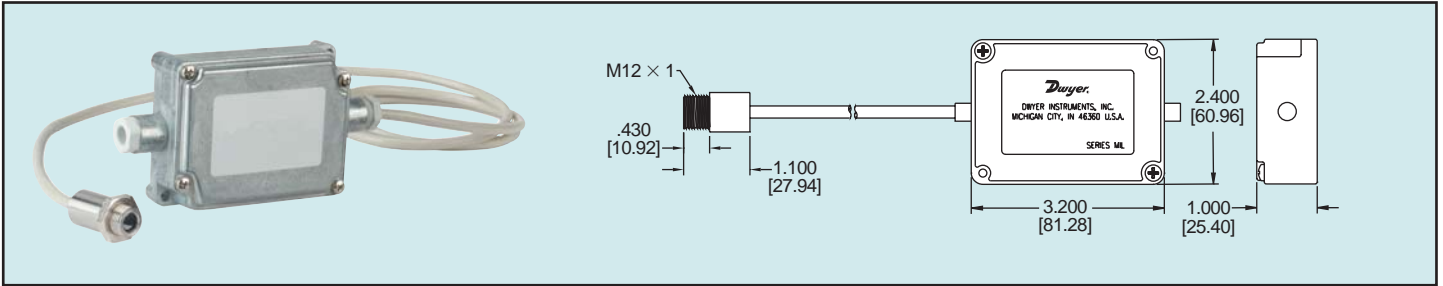




Series  
MIL

# Mini In-Line IR Sensor

Temperature Measurement System, Adjustable Emissivity, Field Selectable Outputs



**Series MIL Mini In-Line IR Sensor** is a complete temperature measurement system. The unit includes a miniature sensing head and remote electronics for easy installation. The remote electronics include selectable output, LCD display, head temperature signal, adjustable emissivity, and peak/valley/averaging. The sensor is housed in a rugged NEMA 4 (IP65) stainless steel enclosure and is connected to the electronics via a 9.8 ft (3 m) cable. Includes 1 mounting nut.

### STOCKED MODELS in bold

Model Number	Distance-to-Target Size Ratio
MIL2C*	2:1
<b>MIL5C*</b>	10:1

\*For optional RS232 communication, add "R" suffix to part number

### ACCESSORIES

- Model **XXXMIACMN** Replacement Mounting nuts (2 pieces)
- Model **XXXMIACFB** Fixed Mounting Bracket
- Model **XXXMIACAB** Adjustable Mounting Bracket

### SPECIFICATIONS

**Temperature Range:** -40 to 1112°F (-40 to 600°C) for mA, V or K thermocouple output; -13 to 1112°F (-25 to 600°C) for J thermocouple output.  
**Accuracy:** mA or V output: ±1% of reading or ±1°C whichever is greater. T/C output: ±1% or ±2.5°C whichever is greater.  
**Emissivity:** 0.100 to 1.100 digitally adjustable increments of .001.  
**Distance-to-Target Ratio:** 2:1 or 10:1.  
**Resolution:** 0.5°F (0.3°C).  
**Response Time:** 150 ms (95%).  
**Ambient Operating Temp:** Sensing head: 32 to 185°F (0 to 85°C); Electronics: 32 to 150°F (0 to 65°C).

**Power Requirement:** 11-26 VDC.  
**Repeatability:** ±0.5% of reading or ±1°F (±0.5°C) whichever is greater.  
**Storage Temperature:** 0 to 185°F (-18 to 85°C).  
**Outputs:** Scalable 4-20 mA, 0-20 mA, 0-5 V, J or K thermocouple.  
**Cable Length:** 9.8 ft (3 m).  
**Spectral Response:** 8 to 14 μm.  
**Housing:** NEMA 4 (IP65), Sensing head: stainless steel; Electronics: Die-cast zinc.  
**Weight:** Sensing head: 1.75 oz (50 g); Electronics: 9.5 oz (270 g).  
**Agency Approvals:** CE.

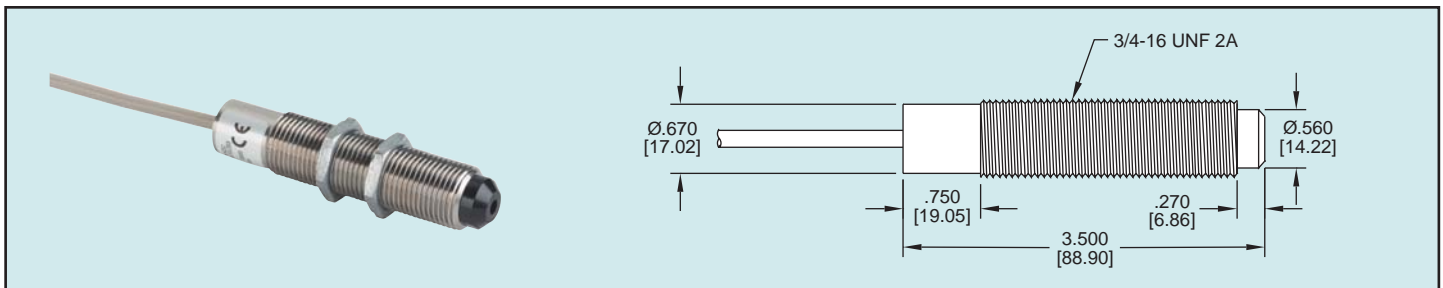
Temperature



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.

### STOCKED MODELS in bold

Model Number	Output
<b>IL10</b>	J Thermocouple
<b>IL30</b>	0-5V

### ACCESSORIES

- Model **XXXCIACMN** Mounting nuts (2 pieces)
- Model **XXXCIACFB** Fixed Mounting Bracket
- Model **XXXCIADJB** Adjustable Mounting Bracket
- Model **XXXCIDCPS** 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.