PROVISIONAL

Thermography Sensor (THIMG-SC)







The THIMG-SC is a compact thermal image sensor designed for switchgear, offering a comprehensive solution to monitor all bus bars with its 768 discrete temperature measurement points and 4 reporting zones. It's mountable inside switchgear or onto existing IR windows, UL 61010 recognized, and integrates seamlessly via Modbus TCP or SNMP. Optionally available as an RS-485 sensor for direct integration with PLC and other systems, it provides flexible deployment options for efficient monitoring.

Sensor Metrics:

| Target temperature range | -40°C to 300°C (-40°F to 572°F) |
|--------------------------|--|
| Temperature accuracy | ±1°C (±1.8°F) |
| Field of View (FoV) | 110° horizontal (wide) 75° vertical |
| Max object distance | Up to 5m |
| Resolution | 32x24 pixels |

Technical Specifications:

| Powered by and communicates with | Base Unit (BASE-XX) (required) Requires the optional BASE-FW-SSLS firmware add on for the Base Unit |
|----------------------------------|--|
| Connectivity | RJ45 cable transmitting data & power from Base Unit to Sensor |
| Cable specification | RJ45 CAT 6/7 recommended Up to 100m (330ft) subject to cable quality & interference |
| Sensor power usage | 492 mW |

Environmental Specifications:

| Operating temperature range | -10°C to +85°C (14°F to 185°F) |
|----------------------------------|--------------------------------|
| Humidity (operating and storage) | < 90% rH (non-condensating) |

Physical Specifications:

| Sensor enclosure | Plastic material enclosure |
|------------------|---|
| Mounting option | Secure mounting with bolt and nut mechanism Can be mounted using two M24 nut |
| Dimensions | L: 51.8mm (2.04") W: 24mm (0.94") Ø: 24 |
| Weight | 32.9g (0.071lbs) |