



IDRATEK

INTELLIGENT AUTOMATION

PTS-001 PIR + Temperature Sensor

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This module combines PIR motion sensing, and a high resolution temperature sensor in one package. Saving space and cost where both PRS and DTS module functions are required (eg. for climate control applications). As with other IDRATEK modules a range of 'Reflex' functions is provided to allow control of other network devices based on motion and temperature



PIR Sensor Characteristics¹

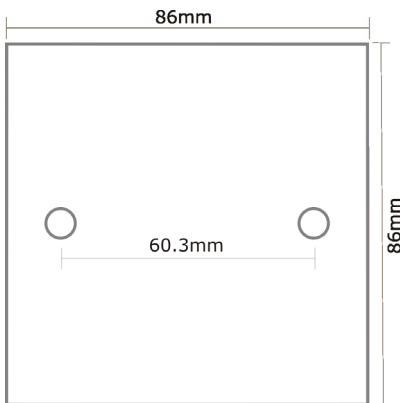
- Detection cone: 82°V x100°H
- Detection zones: 64
- Range: 5m

Temperature Sensor Specifications¹

- Range: Beyond module operating limits (of -10°C to +45°C)
- Resolution: 0.03125°C
- Accuracy: +/- 0.5°C over module range
- Internal sensor sampling period: ~4 seconds

Functional

- PIR state can be interrogated at any time
- Mode programmable trigger gating:
Eg: trigger on PIR->Low, trigger on PIR->High, trigger on either transition, trigger and latch
- User definable 'ON' dwell period
- PIR trigger can generate a pre-defined response and/or several user programmable responses
- Temperature values can be interrogated at any time
- 6 independent event triggers:
 - PIR state change trigger
 - Temperature equals or exceeds user defined 'High' limit
 - Temperature equals or falls below user defined 'Low' limit
 - Temperature difference exceeds user defined 'Delta' limit (auto-datuming)
 - Time interval trigger (ranges: 1-127 seconds/1- 127 minutes)
 - Module Initialise trigger
- User defined trigger enabling pattern
- Each event trigger can generate a pre-defined response and/or several user programmable responses.
- Status/PIR indicator LED
- In-situ reprogrammable firmware



Electrical

- Operating voltage 12-15V DC
- Current consumption 9mA (nominal)

Environmental

- Operating temperature -10°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

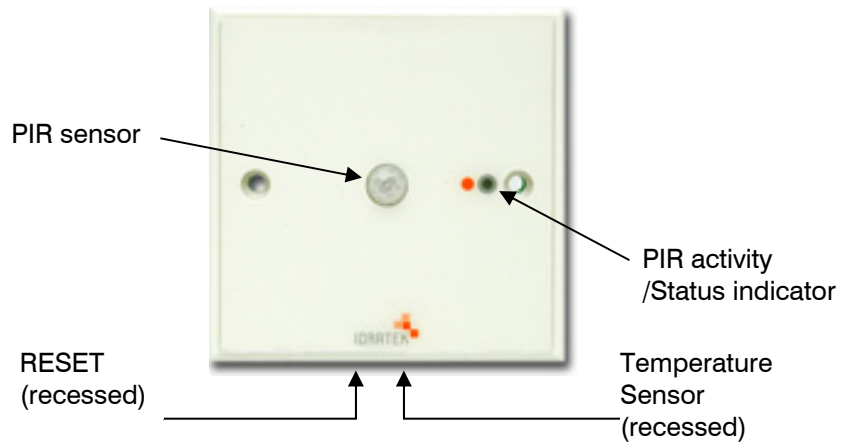
Mechanical

- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws



¹ Manufacturers Data Sheet

Interfaces (front)



Interfaces (rear)

