



IDRATEK
INTELLIGENT AUTOMATION

ALS-002

Light Level Sensor

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The 8 bit Light Level Sensing module provides a means of measuring ambient light levels either for monitoring or control purposes. This unit is not intended to provide an absolute measure of Lux levels but rather a repeatable measure of local light levels to enable practical operations such as dusk/dawn lighting or curtain control. As with other IDRATEK modules a range of 'Reflex' functions is provided to allow control of other network devices based on light level conditions.



Sensor Characteristics

- Module output range: 0 (dark) - 255 (bright)
- Resolution over range: 8 bits monotonic
- Spectral response of sensor: similar to human eye (~480-650nm)
- Measurement characteristics: Logarithmic with additional internal time response damping

Functional

- Light level value can be interrogated at any time
- Five independent event triggers:
 - Light level equals or exceeds user defined 'High' limit
 - Light level equals or falls below user defined 'Low' limit
 - Light level 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
- Green status indicator LED
- In-situ reprogrammable firmware



Electrical

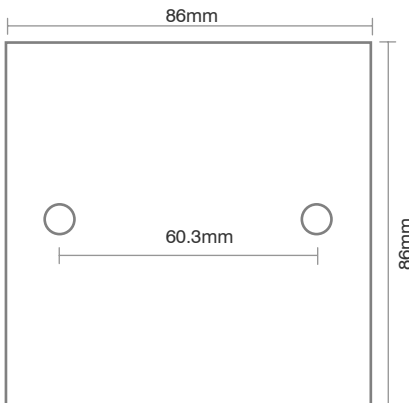
- Operating voltage 12-15V DC
- Current consumption 9mA (nominal)

Environmental

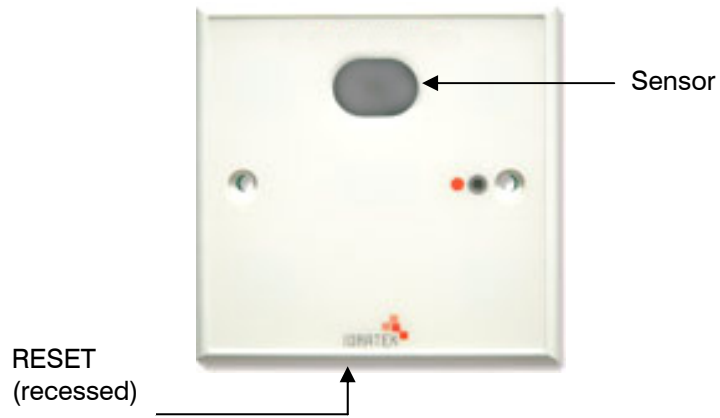
- Operating temperature -10°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

Mechanical

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



Interfaces (front)



Interfaces (rear)

