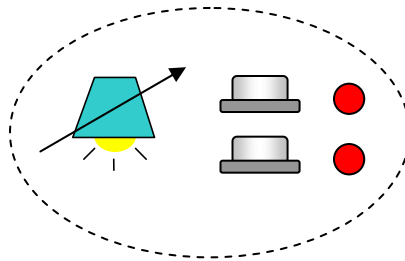




SLD-W01

No Neutral (In-line) WiFi Dimmer

7-125W Dimmer,
2x push buttons, 3x indicator LEDs



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The SLD-W01 is a true 'no neutral' in-line connected WiFi Dimmer. This means it can be used in place of a single conventional light switch without any wiring modifications and no other components at the lamp fittings. The only requirement is that the associated lighting circuit should be comprised of dimmable LED lamps or incandescent lamps within the total stated wattage limits. The module thus provides a convenient way to retro-fit wireless dimming and control capabilities into existing lighting circuits and to enable their integration into wider home automation systems such as the powerful framework provided by IDRATEK. In common with other IDRATEK modules, on board device functions and operational parameters are readily accessible for use by other networked devices and software.



Radio

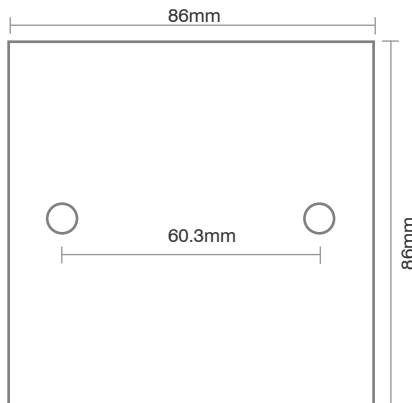
- WiFi IEEE 802.11 b/g/n 2412 - 2484MHz (2.4GHz band) FCC/CE
- Sensitivity: up to -90dBm
- Transmit power: up to 16dBm nom.
- WEP/WPA-PSK/WPA2-PSK
- Station and Access Point operating modes

Dimmer Output Characteristics¹

- Maximum power: 125W (Min. 7W*)
- Voltage: 80-250V@50Hz AC
- Electronic overload protected
- Over temperature protected
- Inherent soft start
- Dimming Resolution: 8 bit (0-255)
- Trailing edge operation
- Dynamically configurable ramp rates

Digital I/O

- 2 * Positive Click Push Button Inputs
- 2 * General Purpose Button LED Indicator Outputs
- 1 * Status indicator LED

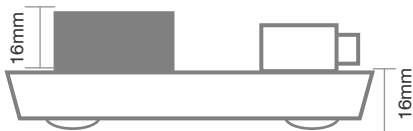


Communications & Functional

- IOTA-WiFi (IDRANet Over The Air) UDP protocol for direct integration into IDRATEK Cortex managed systems
- URL API
- MQTT
- All above can be individually enabled or disabled
- All input and output states can be interrogated at any time
- Highly flexible static & dynamic output state modification
- Module start-up output states are user programmable
- Button event triggers with mode programmable trigger gating
- Each event trigger can generate a pre-defined response and/or several user programmable responses.
- Over the air reprogrammable firmware

Environmental

- Operating temperature 0°C to +35°C
- Operating humidity 5% to 95% (non-condensing)



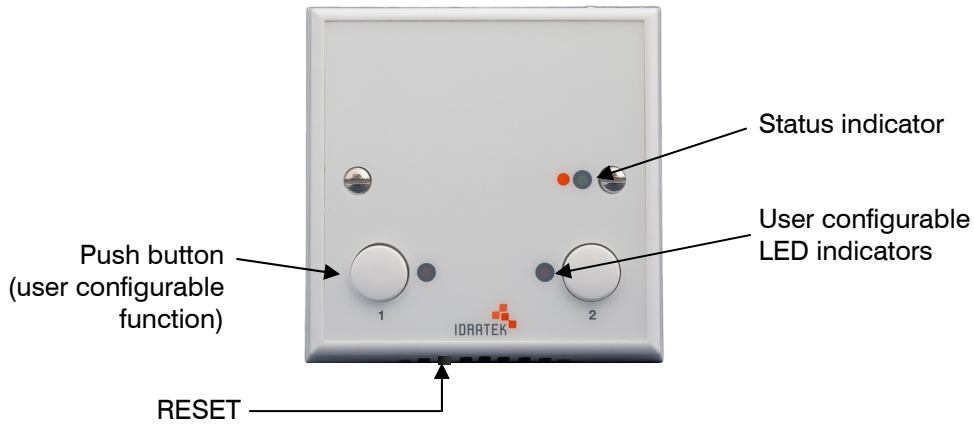
Mechanical

- Designed to fit UK standard electrical pattress box (min depth 20mm)
- 60.3mm fixing centres using standard M3.5 screws
- Lighting circuit inline connection via 5mm pitch terminal block, conductors up to 4mm²

¹ Dimming range may be reduced at lower voltages and for low power loads. Calibration feature provided to allow maximal utilisation

* Minimum wattage can vary depending on the specific model for LED lamps and component tolerances. Tested using: Philips MASTER Value 7.2W, Wickes 8.8W, Integral LED 8.8W, but may vary depending on tolerances.

Interfaces (front)

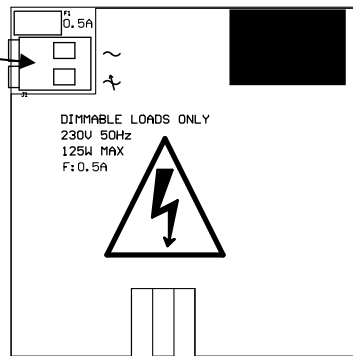


Default Operation after Reset (Overriden by Cortex):

Button1: Short click toggles between Off and last set dim level, long press increases dim level
 Button 2 : Short click toggles between Off and last set dim level, long press decreases dim level
 Default dim level (after short click): 30%

Interfaces (Rear)

In-line Lighting circuit connection
 5mm pitch term. Blk.,
 Up to 4mm² conductor



Example Connectivity

