



# IDRATEK

INTELLIGENT AUTOMATION

## **SLD-001**

### **1 Channel in-line 250W Light Dimmer**

IDRATEK LTD  
8 Clanfield Court  
Newcastle Upon Tyne  
NE3 1TZ  
UK

t: +44 191 2840686  
w: [www.idratek.com](http://www.idratek.com)

*The information in this document is provided for guidance only. IDRATEK Ltd reserve the right to make any necessary changes, without notice, in order to improve the quality of their products.*

The SLD-001 is a single channel light dimmer module suitable for use on incandescent lamps and most electronic low voltage transformer based lighting. Certain high voltage halogen lighting (eg. GU10) may also be controlled but must be derated to around 60% of module capacity. The module utilises superior trailing edge (phase turn off) control which avoids high inrush currents and thus improves lamp life expectancy, minimises dimmer noise and allows control of low wattage lamps without flicker. Electronic overload protection is also incorporated. This unit is designed for 'in-line' applications, where separate neutral and lives feeds are not available. It can therefore replace standard 1way light switch fixtures. Availability of onboard user definable ramp and free form dynamic profiles allow complex dynamic scene settings to be accomplished even without a high level control program such as Cortex.



#### Output Characteristics

- Maximum power: 250W (incandescent)
- Voltage: 200-250V@50Hz AC
- Electronic overload protected
- Inherent soft start
- Dimming range: 0-98% (power linearised)
- Dimming Resolution: 1%

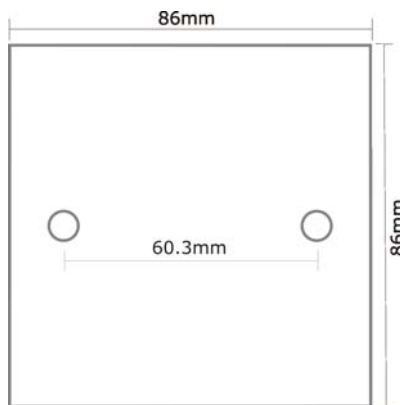
#### Other Interfaces

- 1 x Click Effect Push Button Input
- 1 x general purpose LED Indicator Output
- Status indicator LED



#### Functional

- Static or Dynamic output level can be set via IDRANet (or button) at any time, allowing multiple unit scene setting via Cortex or by any networked input device.
- Local control modes via onboard button
- Ramp function with user definable rate
- User definable free form dynamic profiles
  - Profile data retained in non-volatile reprogrammable memory
  - Control over individual step dwell interval
  - Profile lengths up to memory limits
  - Cyclic profiles possible
- User definable initial output value
- Onboard push button and LED have full Reflex as well as local function capability
- Module Initialise trigger
- Fully IDRANet Compatible



#### Electrical

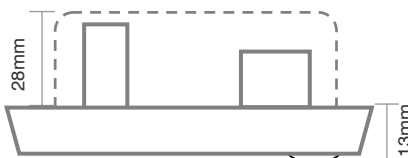
- Operating voltage (IDRANet side) 12-15V DC
- Current consumption (IDRANet side) 20mA
- Lamp side: 230V(nom) @ 50Hz AC, 250W max.

#### Environmental

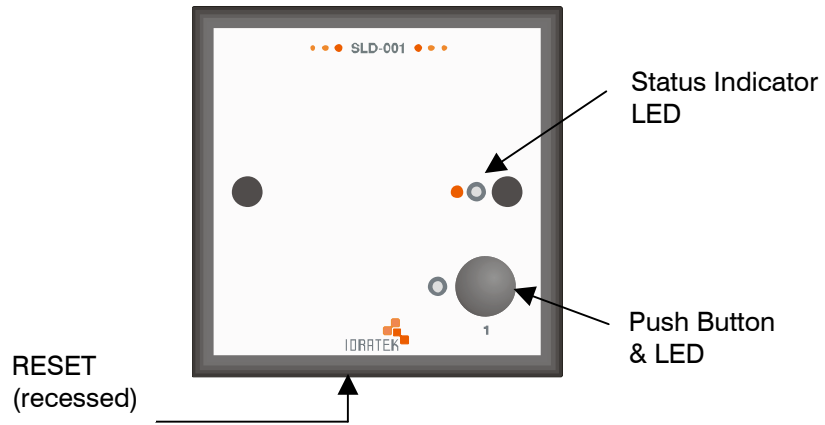
- Operating temperature -10°C to +35°C
- Operating humidity 5% to 90% (non-condensing)

#### Mechanical

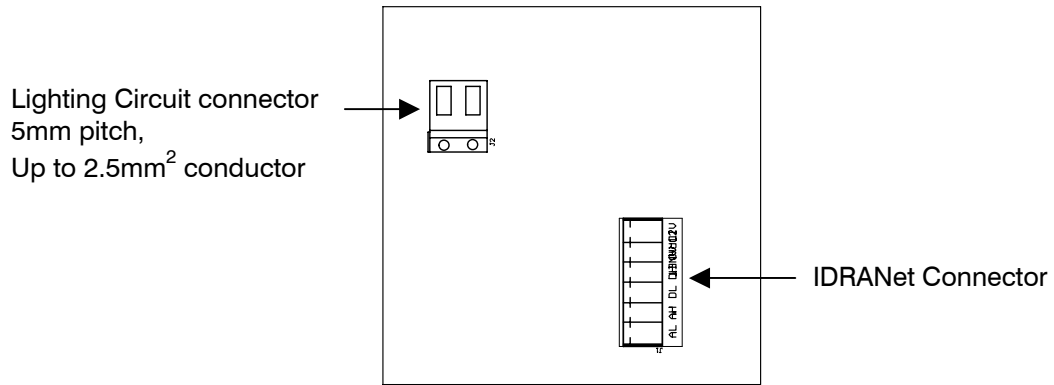
- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws
- Output connections via 5mm pitch terminal block, up to 2.5mm<sup>2</sup> conductor cross section.



Interfaces (front)



Interfaces (rear)



Example connectivity

