



QLD-003
4x 250W Dimmer/
8x Digital Input
(6M DIN Enclosure)



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The QLD-003 is a four channel light dimmer module suitable for use on both incandescent and LED lighting loads. The module utilises trailing edge (phase turn off) control which tends to better suit dimmable LED lighting loads. Overcurrent and overheat protection is incorporated. The unit requires both neutral and live feeds. As such there is no minimum load requirement. Each channel has an independently alterable power mapping table, meaning that lamps with different dimming characteristics can be simultaneously catered for by a given module. Outputs can also be used to switch non dimmable lamps (with suitable set up via Cortex) but in general this is not a cost effective way to switch non dimmable lamps – use a QTI module instead. 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. Inbuilt Reflexes can be used to allow direct output control via the 8 digital inputs.

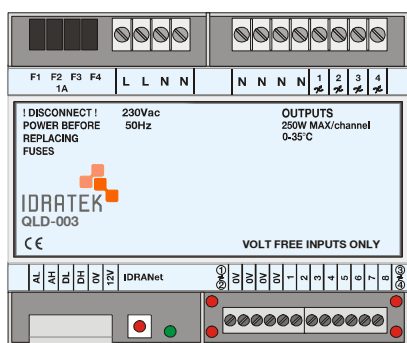


Output Characteristics

- 4x 250W (@230Vac) channels (trailing edge phase control)
- Voltage: 90-250V@50Hz AC
- Fuse & electronic overload protected outputs
- Overall thermal overload protection (self resetting)
- Dimming range: 0-100% (power linearised/updateable mapping)
- Dimming Resolution: 8 bits (0-255)
- Channel status indicator LEDs (also indicate mains status)

Other Interfaces

- 8 x General purpose digital inputs (filtered)
- Status indicator LED



Functional

- Static or Dynamic output level can be set via IDRANet (or input) at any time, allowing direct control or scene setting via Cortex or by any networked input device.
- Digital inputs have full Reflex as well as pre-defined local function capabilities
- Independent channel ramp functions with user definable endpoints and rates
- 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 states
- Mains and Over temperature trip status reporting to IDRANet
- Automatic Output level change reporting to IDRANet
- Module Initialise trigger
- Fully IDRANet Compatible

Electrical

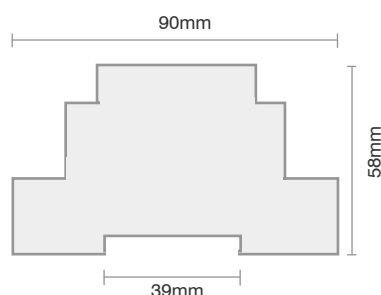
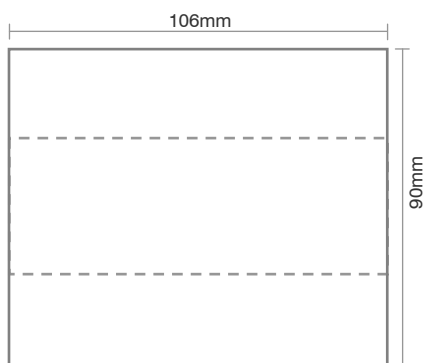
- Operating voltage 12-15V DC
- IDRANet current consumption 15mA (nom), 70mA (max)
- 0V Reference provided for digital inputs
- Maximum output capacity 250W/250Vac/50Hz per channel

Environmental

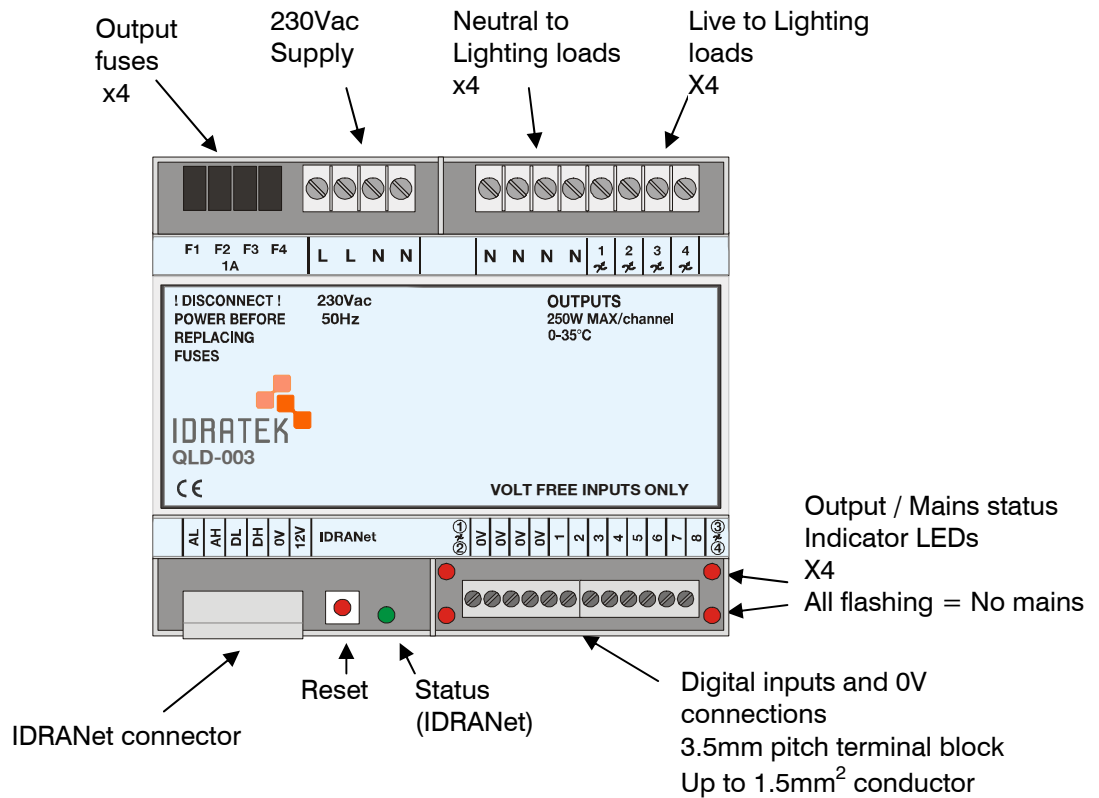
- Operating temperature 0°C to +35°C
- Operating humidity 5% to 85% RH (non-condensing)

Mechanical

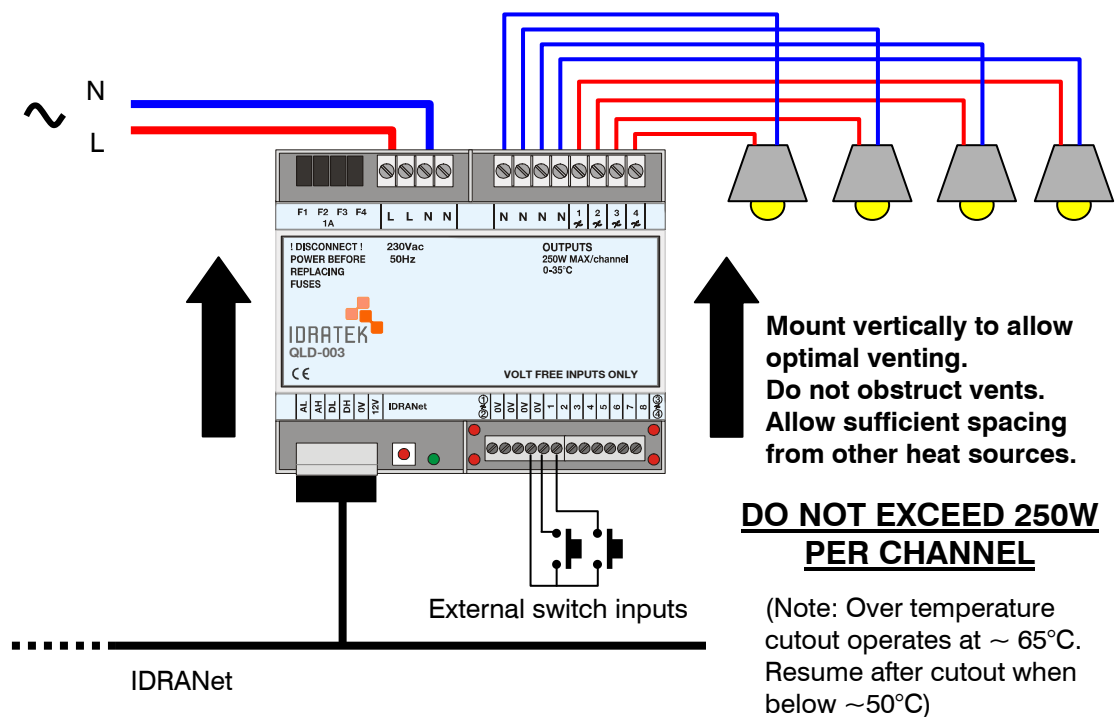
- Designed to fit standard 35mm DIN rail (6M wide)
- Load/mains connections via 5mm pitch terminal blocks, up to 4mm² conductor cross section.
- Digital input connections via 3.5mm pitch terminal block, up to 1.5mm² conductor cross section.



Module Connections



Example connectivity



Internal Reflex digital input operation (when enabled):

Short click on input 1 turns output 1 fully ON, push and hold fades up
 Short click on input 2 turns output 1 fully OFF, push and hold fades down
 Etc..