



# IDRATEK

INTELLIGENT AUTOMATION

## **ODI-002**

### **8 Way General Purpose Digital Input**



© IDRATEK LTD  
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 ODI-002 module provides a means of interfacing up to 8 passive ('volt free') digital inputs to the IDRANet system. Such inputs could be for example from simple switching devices such as bell push buttons, standard wall switches or from more complex devices such as the wide range of readily available security alarm sensors, eg. PIR detectors, door sensors, pressure mat sensors. Furthermore any input can be configured for pulse counting operation suitable for interfacing to pulse output devices such as utility meters and anemometers.



Physical

- 8 x Digital Inputs (**filtered, non-isolated**)

Functional

- All input states can be interrogated at any time
- All Inputs can provide independent event triggers with mode programmable trigger gating:  
Eg: trigger on High->Low, trigger on Low->High, trigger on either transition, trigger and latch
- Each event trigger can generate a pre-defined response and/or several user programmable responses
- Pulse counting capability on digital inputs (min. pulse width 20ms)
- Module Initialise trigger
- Green status indicator LED
- In-situ reprogrammable firmware

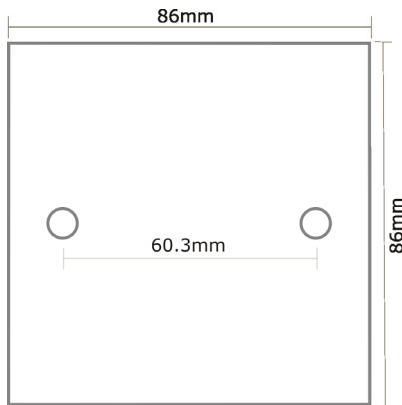


Electrical

- Operating voltage 12-15V DC
- Current consumption 15mA (all I/O active)
- 0V Reference provided

Environmental

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

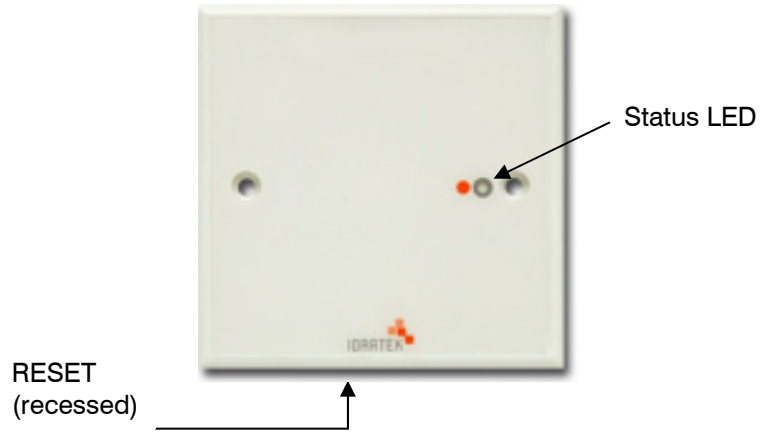


Mechanical

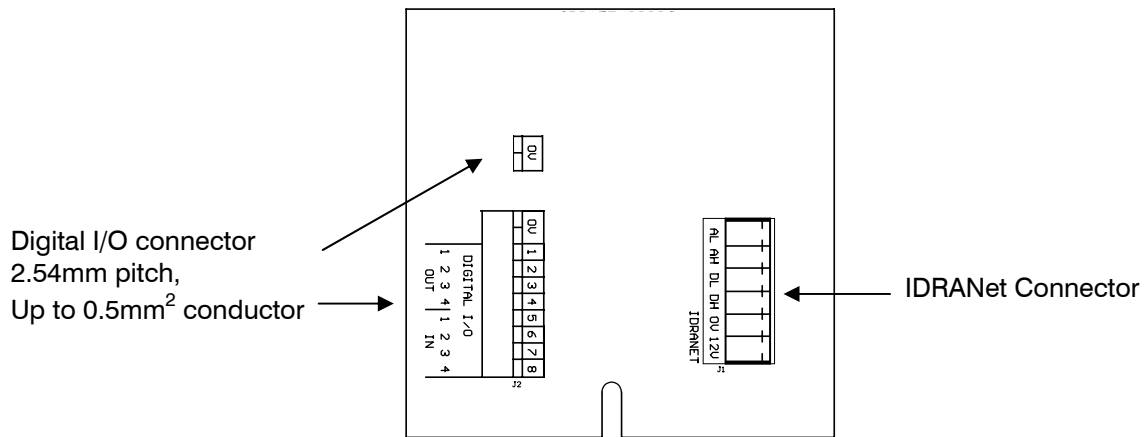
- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws
- Digital input connections via 2.54mm pitch terminal blocks, up to 0.5mm<sup>2</sup> conductor cross section. Four 0V connection points.



Interfaces (front)



Interfaces (rear)



Example Connectivity

