



IDRATEK

INTELLIGENT AUTOMATION

ODI-001

8 Way General Purpose Digital Input

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The ODI-001 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, etc.



Physical

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

Functional

- All input and output states can be interrogated at any time
- All Input devices 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.
- Module Initialise trigger
- Status indicator LED
- Fully IDRANet Compatible

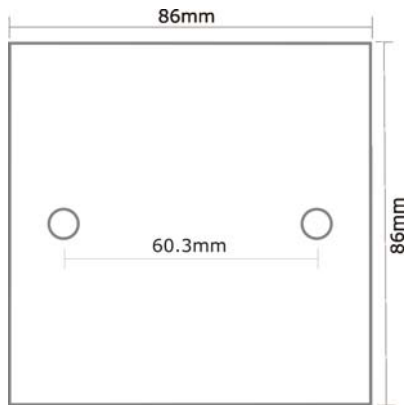


Electrical

- Operating voltage 12-15V DC
- Current consumption 15mA (nominal)
- 0V Reference provided for digital inputs

Environmental

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

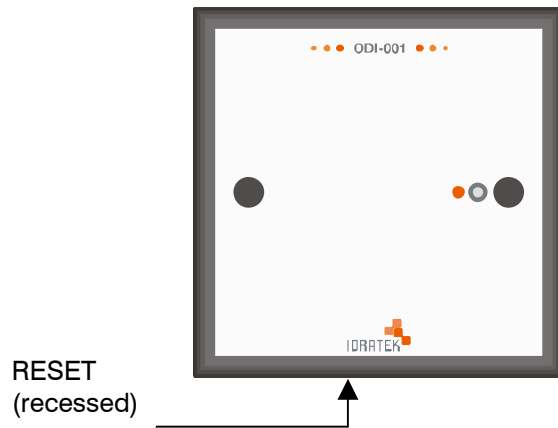


Mechanical

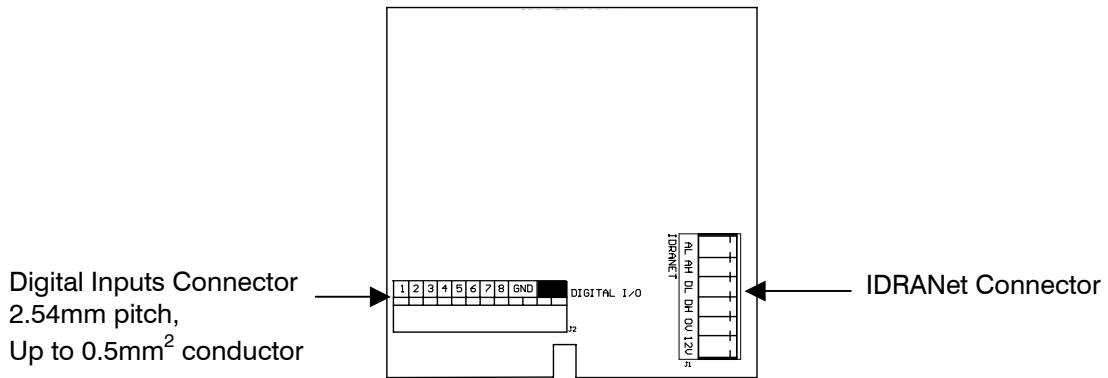
- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws
- Digital input connections via 2.54mm pitch terminal block, up to 0.5mm² conductor cross section. Two 0V connection points.



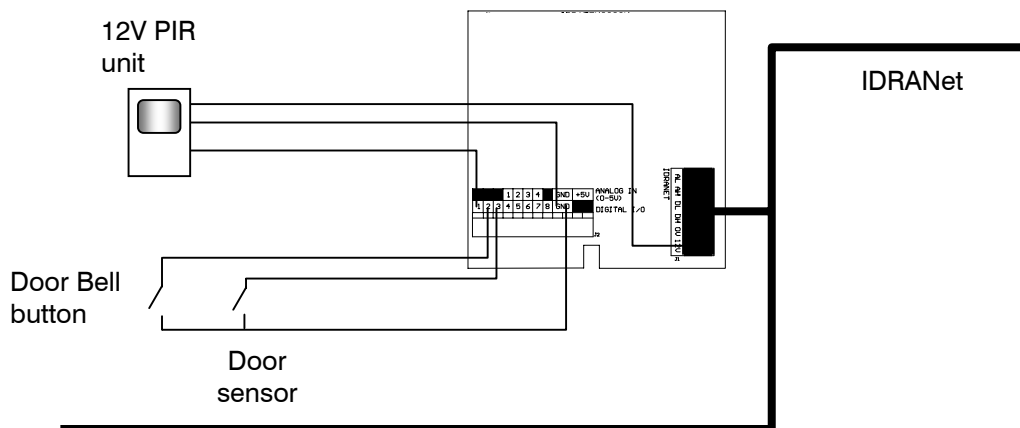
Interfaces (front)



Interfaces (rear)



Example connectivity



Note: Though digital filtering is employed on all inputs, for longer (eg. >3m) normally open input connections it is advisable to take additional spike protection precautions, eg.: Use twisted pair or shielded cables (one side to 0V). Fit small capacitance and/or transient suppressor between input and 0V.