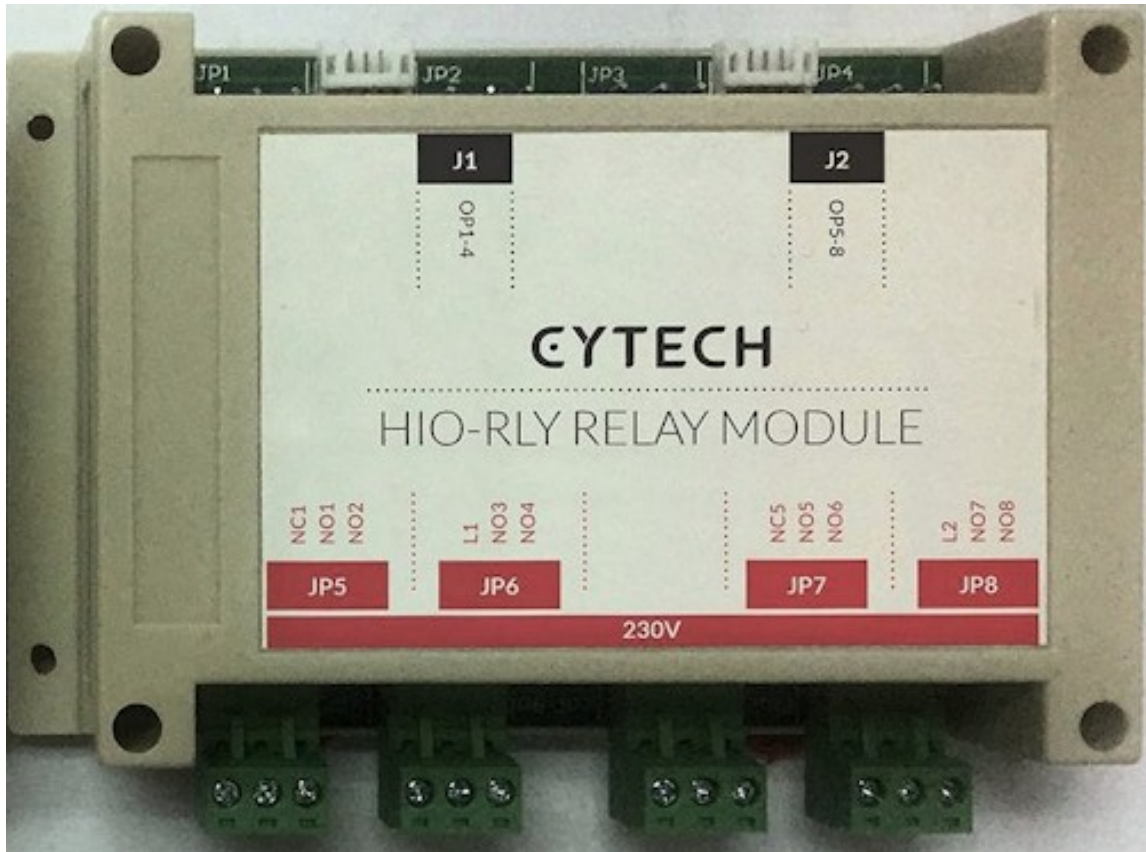
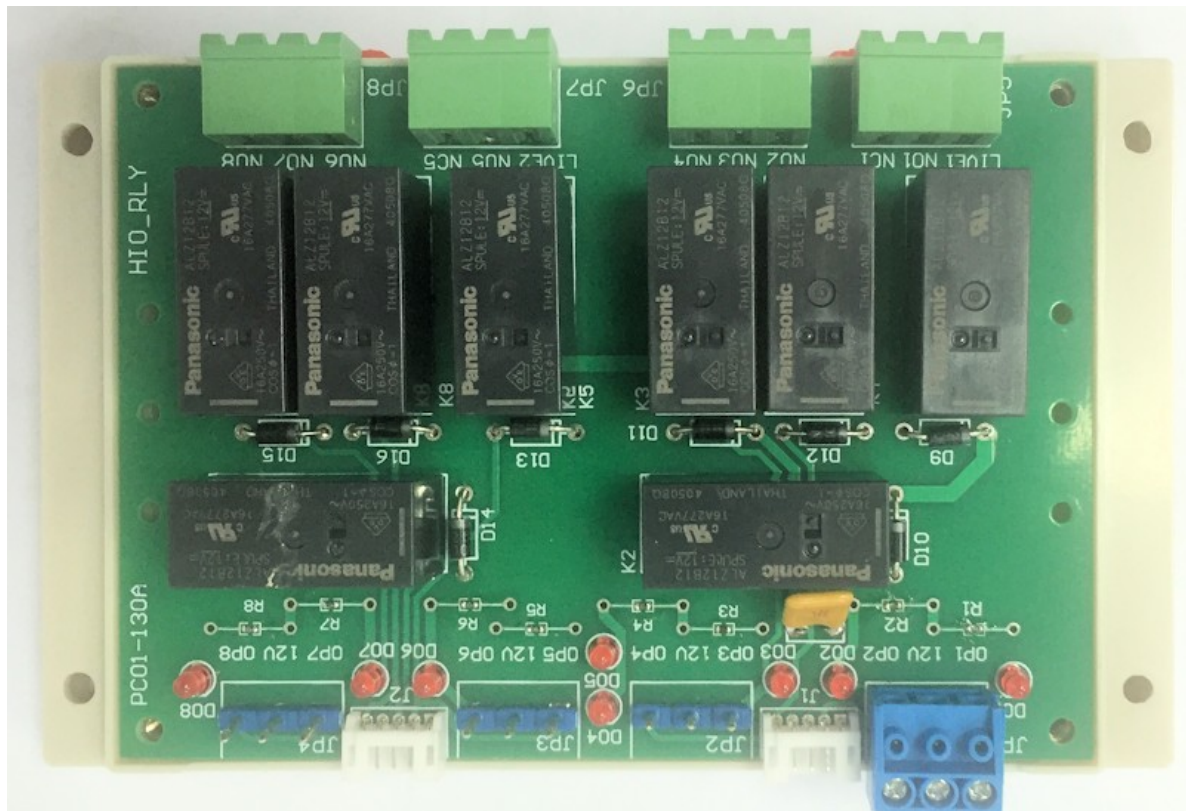


## *HIO-RLY – Relay Module for HIO*

The HIO-RLY is a relay module with 4 relays mounted in a DIN Rail enclosure which is connected to the HIO01 Hotel Room Controller.



*HIO-RLY with DIN Rail Enclosure*



*HIO-RLY with DIN Rail enclosure cover removed*

## Relay Specifications

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- Coil Arrangement: 1 Form C (Normally Open, Single Pole)
- Switching Capacity: 16A 250 VAC
- Max Switching Power: 4000 VA
- Max Switching Voltage: 440 VAC
- Max Switching Current: 10A
- Expected Life (mechanical):  $1 \times 10^7$  operations
- Expected Life (electrical):  $10^5$  operations
- Insulation Resistance: 1000 Mohms at 500VDC
- Breakdown Voltage (Contact to Coil): 5000 VRMS (1 min)
- Breakdown Voltage (between open Contacts): 1000 VRMS (1 min)
- Initial Surge Voltage (contact to coil): 10000 V
- Coil Resistance: 360 ohms
- Coil Operating Current (12V): 33.3 mA
- Coil Pickup voltage: 8.4V
- Coil Release voltage: 1.2V

## What is Included

The package includes

- HIO-RLY Relay Module with DIN Rail enclosure
- 2 x 5 way cable assembly for connection to HIO01

## Connectors



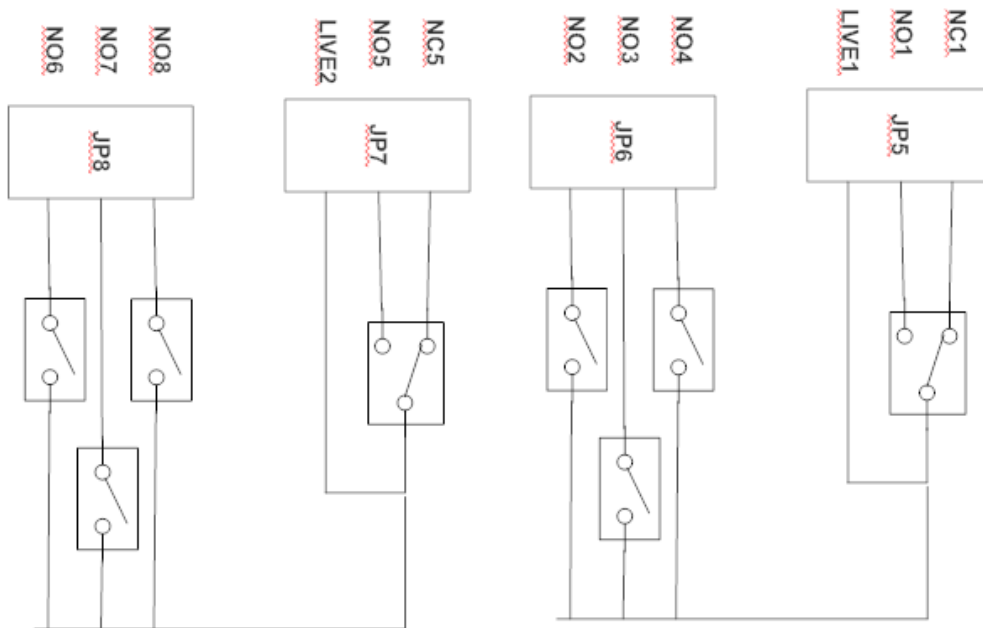
Connectors to HIO01

J1 and J2 5-way connectors allow HIO-RLY to be connected to HIO01. The 5 way cable assembly shown below can be plugged in to both sides (ie HIO and HIO-RLY). Each cable connects 4 Outputs to relays.

## HIO-RLY – Relay Module for HIO



The Relay Connections to the JP5 to JP8 white connectors are shown below;

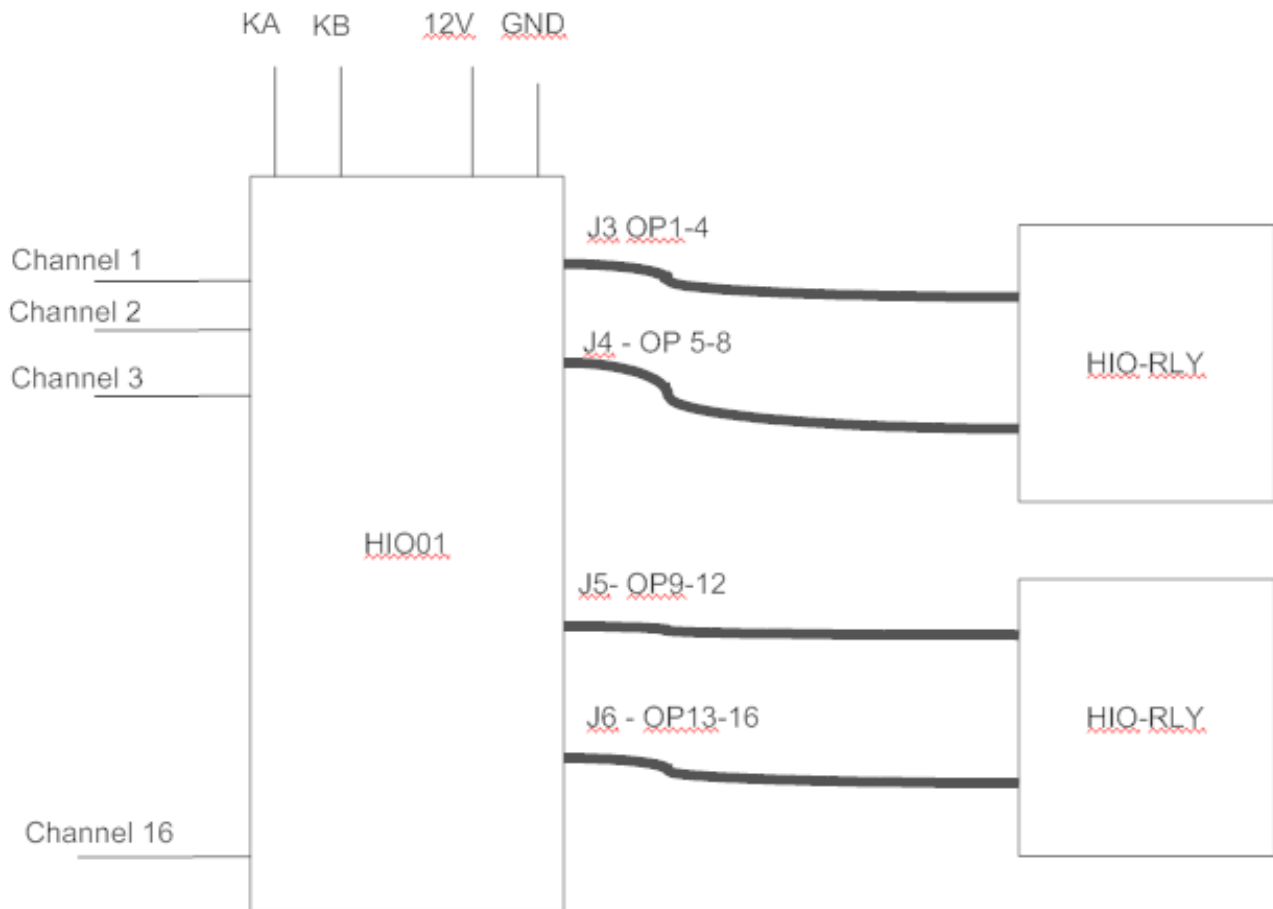


Relay 1 and 5 have Normally Open and Closed positions on JP5 and JP7, while Relays 2-4 and 5-7 are Normally Open only. The NO/NC relays allow HIO Outputs especially the Primary Relay/Keycard Outputs to cut off the supply when activated or to connect the supply when activated. Live 1 and Live 2 are connected to 230V, and allow two 230V supply circuits to be used if required.

The JP1 to JP4 blue terminal blocks are meant for other devices other than HIO to connect to the HIO-RL1. These should not be used if the JP5 to JP8 connectors are used, and vice versa.



## HIO Channels and Outputs



### HIO01 Inputs and Outputs

Each of the 16 HIO Channels is linked to the corresponding numbered Output. The Output is normally connected to a Relay to switch the Light or appliance. The HIO-RL1 has 8 x 10 Amp relays in a DIN Rail enclosure. To simplify connection, the HIO has 4 x 5 way connectors for the purpose of connection to HIO-RLY. Each 5 way connector J3 to J6 has 4 output signals to be connected by a provided cable assembly to the HIO-RL1. 2 HIO-RL1s and 4 cable assemblies are required for 16 relays.

## Document History

initial Release 2 November 2016