

Commissioning

1. When wiring is complete and checked to be OK, connect power to the module.
2. The Relays can be tested via the "Test Auxiliaries" option. <MENU>, 4, 2.
3. Use the following table to determine the Auxiliary number to test for each relay, and when programming the relay functions.

| <u>RELAY</u> | <u>AUX. NUMBER</u> |
|--------------|------------------------|
| RL1 | C01:X03 |
| RL2 | C01:X04 |
| RL3 | C01:X05 |
| RL4 | C01:X06 |
| RL5 | C01:X07 |
| RL6 | C01:X08 |
| RL7 | C01:X09 |
| RL8 | C01:X10 |

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Concept 3000 is designed & manufactured in Australia by:

 **inner range Pty. Ltd.**
ACN 007 103 933

CONCEPT 3000 Control Module 8 Relay Expander P/N: 993082C

INSTALLATION NOTES**Introduction**

The 8 Relay Expanders provide low voltage, high current relay outputs, offering a general purpose interface in applications such as warning devices (strobes, etc.), air-conditioning, process control and access control including door locks, lift call and lift floor selection. One Relay Expander board can be connected to the Control Module via the Bus Latch PCB to provide 8 Relay outputs. If extra relays are required, they can be installed in Zone Expander Modules using the 8 Relay Expander Kit P/N: 993082E. An external power supply option can be used whenever the Relay board power requirements exceed the current available from the Control Module.

Specifications

| | |
|---------------------------|--|
| Power Supply Input: | 11V to 14V DC |
| Current Consumption: | 60mA per relay 480mA all relays energised. |
| Contact Rating: | |
| Max. switched current: | 5 Amps @ 30VDC (Resistive load) |
| Physical dimensions: | Length: 180mm Width: 68mm |
| Installation environment: | 0° to 40° Celsius 15% to 85% Relative humidity (non-condensing) |

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Control Module 8 Relay Expander Kit

- Relay PCB sub-assy and plug on terminal blocks.
- Bus Latch PCB sub-assy.
- 1 x Plastic Bus Latch PCB standoff.
- Standard 8 Relay PCB connection cable. 200mm.
- 2 x Metal M3 PCB standoffs.
- 4 x Plastic self adhesive PCB standoffs.
- Installation notes.

Note: An optional Relay Extension cable P/N: 995019, (purchased separately) may be required in some installations (see below)

Mounting the 8 Relay Expander Board

- Installing the Bus Latch PCB.

To facilitate connection of the 8 Relay Expander board, the Bus Latch PCB must first be fitted to the Control Module.

Fit the plastic standoff into the mounting hole from the solder side of the PCB, then fit the PCB onto Control Module pinstrip connector JP3 "AUXEXP". Ensure that the plastic standoff locks into the hole provided on the Control Module PCB.

- Installing the Relay board within the Control Module Enclosure.

The 8 Relay Expander board can be "stacked" above the end of the Control Module PCB. Replace the two PCB mounting screws at that end of the board, with the two metal standoffs provided. The Relay board is then mounted on the standoffs with the M3 screws.

Connection is made between The Bus Latch PCB J2 and the 8 Relay Expander JP2 using the ribbon cable supplied.

- Installing the Relay board in a separate ancillary enclosure.

The 8 Relay Expander board can be mounted in a separate enclosure (e.g. IRB-3000 or IRY-2000) using the self adhesive standoffs provided.

Connection is made between The Bus Latch PCB J2 and the 8 Relay Expander JP2 using the special **Relay Extension cable P/N:995019** (purchased separately) to provide the extra length required.

CAUTION. Ensure that the Relay board plus other devices powered from the Control module do not exceed the maximum auxiliary current allowed. When required, the Relay board is powered from a separate supply via T2.

Bus Latch and 8 Relay Expander PCB

