

**Commissioning**

NOTE: Control Module firmware V2 or later. The Universal Expander Module must be configured as a “B” type (Big) Expander to support the additional Zones 17 to 32 provided by the 16 Zone Expansion board.  
(Expander Modules configured as an “E” type only support the basic 16 Zones)

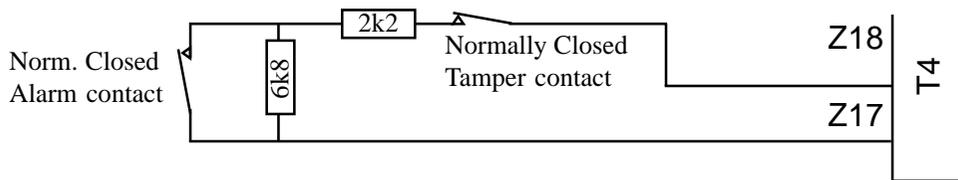
The Universal Expander “type” is selected with DIPSwitch 1 on SW1 as follows:  
Off = “B” type Expander. (16 to 32 Zones)      On = “E” type Expander. (16 Zones only)

If an existing Universal Expander has to be changed from an “E” type to a “B” type to support the 16 Zone Expansion board, Zones 1 to 16 on that Universal Expander will have to be re-programmed as “B” type Expander Zones.

1. When wiring is complete and checked to be OK, connect power to the Universal Expander Module.
2. The Zones can be tested via the “Test Inputs” option. <MENU>, 4, 1.
3. Program the Zone Inputs and assign them to the appropriate Area/s.

**Zone Input Wiring**

**NORMALLY CLOSED ALARM CONTACTS.**



**NORMALLY OPEN ALARM CONTACTS.**

Wired in exactly the same manner as above. However, when programming the Zone Input, [MENU], 7, 0., the option to “Swap Seal and Alarm conditions” must be set to [Y]es.

e.g.

```
E01:Z01    C X S R A N T .
Options -> n n Y n n n n n
```

While every effort has been made to ensure the accuracy of this manual, Inner Range Pty. Ltd. assumes no responsibility or liability for any errors or omissions.  
Due to ongoing development, this manual is subject to change without notice.

# MODEL 3000 / ACCESS 4000

# 16 Zone Expansion Board

## P/N: 993006 / 995006

### INSTALLATION NOTES

**Introduction**

The 16 Zone Expansion board connects to a Universal Expander Module to provide an additional 16 Zone Inputs along with extra detector power supply connections to simplify device wiring.

**IMPORTANT NOTE:**

In Model 3000 and Access 4000 Systems, Version 2 Control Module Firmware or later, the Universal Expander must be configured as a “B” type (Big) Expander to support the additional Zone Inputs. (See page 4 for details)

**Specifications**

- Power Supply Input:      11V to 14V DC via host Universal Expander.
- Current Consumption:    40mA. (Not including detector power)
- Physical dimensions:    Length: 180mm    Width: 68mm    Depth: 15mm
- Installation environment: 0° to 40° Celsius  
15% to 85% Relative humidity (non-condensing)

Designed & manufactured in Australia.

Part No: 633006

## Expander Module 16 Zone Expansion Board Kit

- 16 Zone Expansion board sub-assy.
- 5 x 8 way plug-on screw terminals
- 1 x 20 way interconnection cable.
- 4 x M3 screws.
- 20 x 2k2 End-of-line resistors. (red-red-black-brown-brown)
- 20 x 6k8 End-of-line resistors. (blue-grey-black-brown-brown)
- Installation notes. (This document)

## Mounting the 16 Zone Expansion Board

- 1) Remove the power and disconnect the battery from the Universal Expander Module.
- 2) Option A: Mount the 16 Zone Expansion board in the Universal Expander Module enclosure using the standoffs provided. The board is secured onto the standoffs using the M3 screws provided. Connection is made between Zone Expander J1 and the 16 Zone Expansion Board using the ribbon cable supplied.
- 2) Option B: The 16 Zone Expansion board may be mounted in an alternative enclosure using a longer ribbon cable. (Not supplied)  
If a longer ribbon cable is used cabling distance must be less than 500mm. (0.5m)

## 16 Zone Expansion board layout

