

#### 8 Input Expander Module For ESX

The EC-Z8 connects directly to the keypad bus of the ESX control panel using the ARR-14 quick connect loom provided or via the on board keypad bus terminals

Each ESX control panel comes fitted with 8 on board inputs 8 can be expanded up to 64 inputs with the addition of our EC-Z8 expander modules. Each EC-Z8 module comes fitted with 8 inputs, allowing a maximum of 7 x EC-Z8 modules to be connected to 1 x ESX control panel

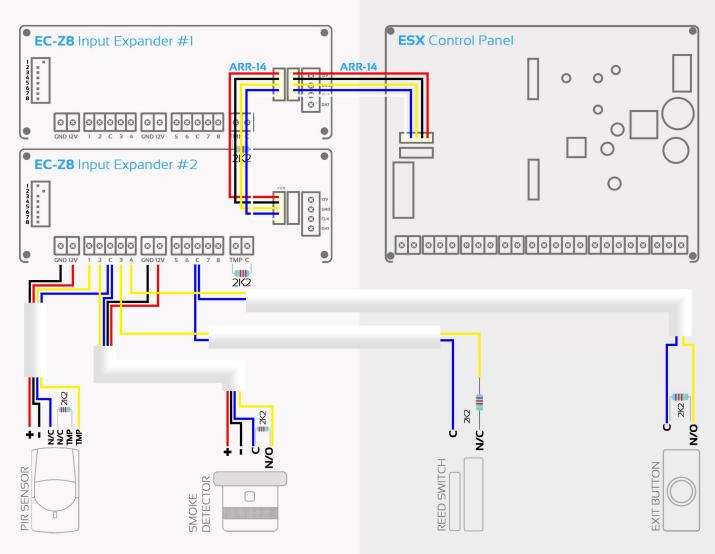
### Each EC-Z8 supports:

- **8 x Individual inputs** For PIR's, reed switches, smoke detectors & more
- 2 x 12VDC accessory power terminals Each 12VDC 1.6A Fused
- 2 x Quick connect keypad bus sockets Use with ARR14 bus loom
- 1 x Keypad bus screw down terminals 12V GND CLK DAT
- **Sockets** for EC-PSU plug in power supply module

# **Basic Connection Diagram**

Below is a simple connection diagram using the ARR-14 quick connect looms provided

**Power Requirements** Voltage In: 12-15VDC Current: 40mA



#### In this example:

- Input expander #1 dipswitch 1 is on, this means it is following inputs 9 16 on the system
- Input expander #2 dipswitch 2 is on, this means it is following inputs 17 24 on the system

PIR = Input 17 Smoke Detector = Input 18 Reed Switch = Input 19

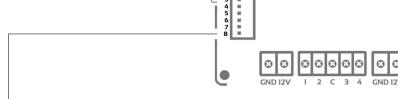
Exit Button = Input 20

## **Dipswitch Addressing**

- The EC-Z8 uses dipswitches 1 3 to address each module shown here
- Dipswitches 4 7 are unused on the EC-Z8 module

### Use the chart below to set the EC-Z8 input address:

Expander	EC-Z8 Follows:	DIP 1	DIP 2	DIP 3
1	Inputs 9 - 16	ON	OFF	OFF
2	Inputs 17 - 24	OFF	ON	OFF
3	Inputs 25 - 32	ON	ON	OFF
4	Inputs 33 - 40	OFF	OFF	ON
5	Inputs 41 - 48	ON	OFF	ОИ
6	Inputs 49 - 56	OFF	ON	ON
7	Inputs 57 - 64	ON	ON	ON



#### Important:

Dipswitch 8 controls the tamper function:

**Dipswitch 8 Off = Tamper input is active**Requires a 2K2 resitstor shorted to common

**Dipswitch 8 On = Tamper input is inactive**System ignores tamper input on this module

## **Input Programming (Basic)**

- By default all inputs are configured for a PIR, reed switch or similar & require a 2K2 resistor to 'seal' the input
- There is a blue LED above each input to show the input state. If the LED is off the zone is sealed and ready
- Before programming you must first enter installer mode. This is done by pressing PROG followed by your installer code, then ENTER. The default installer code is 000000

### **Enable/Disable An Input in Programming(P122E)**

Press PROG 122 ENTER (input number) ENTER (toggle option 1 on or off) ENTER. After entering the address & the input number as detailed above, you can toggle option 1 on or off. This enables or disables the input you are working on, then press enter to confirm. Note: Options 4 & 5 at address 122 must be off if using ESX-Z8

Push the right arrow to go to the next input or continue to another programming address

### Overview

```
P 122 E 1-64 E 1 ENTER

Toggle 1 on or off (I on enables the input, I off disables the input)

Input number you wish to work on

Address
```

### 24 Hour Fire Input (P123E) Use for inputs that are connected to smoke or heat detectors

Press PROG 123 ENTER (input number) ENTER (toggle option 5 on or off) ENTER. After entering the address & the input number as detailed above, you can toggle option 5 on or off. This enables or disables the 24 hour input function, then press enter to confirm. Note: The input must also be enabled as explained above

Push the right arrow to go to the next input or continue to another programming address

### Overview

```
P 123 E 1-64 E 5 ENTER

Toggle 5 on or off (5 ON enables 24 hour fire, 5 OFF disables 24 hour fire)

Input number you wish to work on

Address
```

## Troubleshooting Inputs (Basic) See complete troubleshooting guide or full manual for more information

- Metering between an input & common should give a voltage between 0.7VDC & 1.1VDC
- If the voltage is outside this range, check your wiring and that the resistor used matches the setting at address 125 in the full manual

