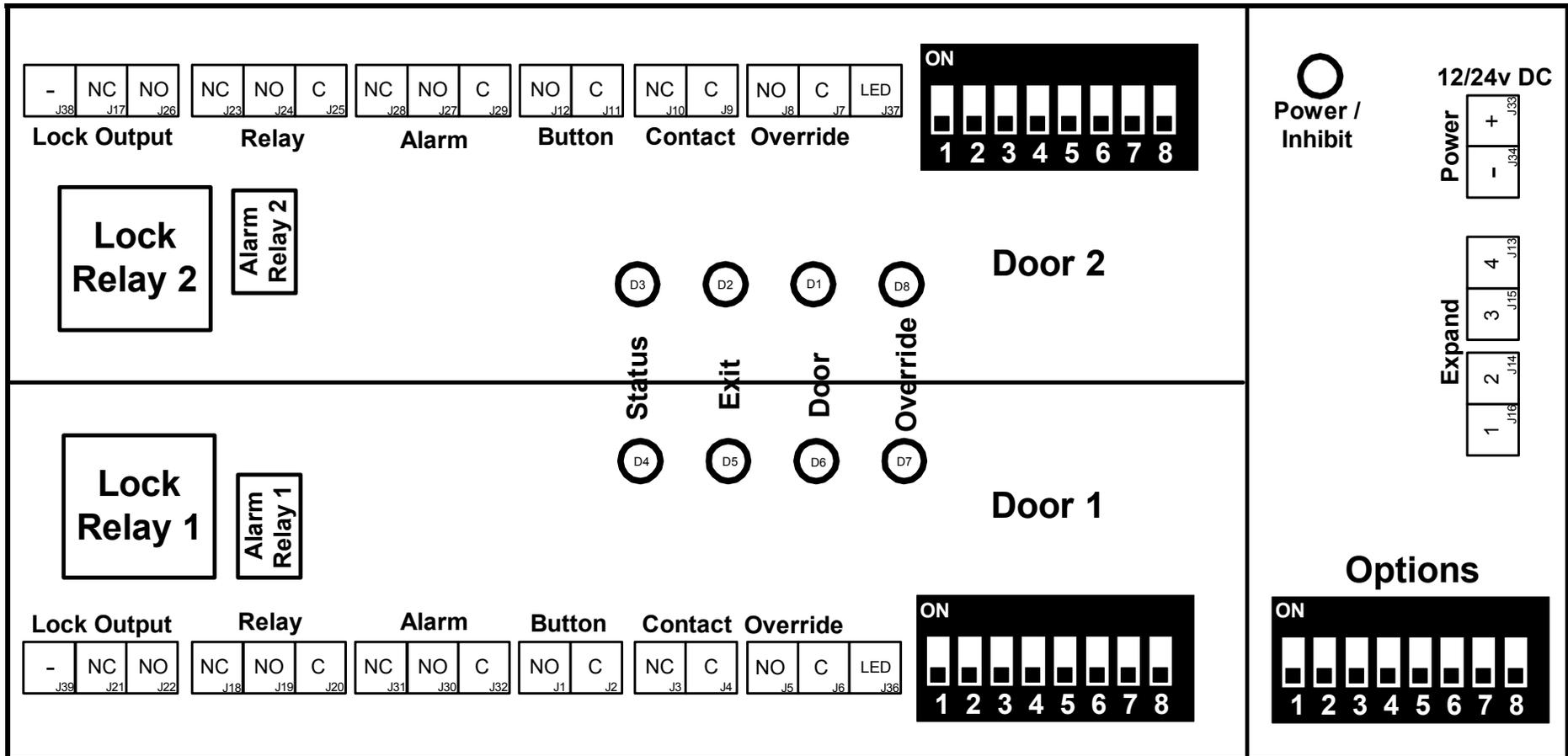


# IEC IB1 Door Interlock Instructions

**T** 01202 676262  
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**E** info@iecltd.co.uk  
**W** www.iecltd.co.uk



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## Technical Specification

- 2 Door True Interlock Controller
- Dual Voltage 12/24v DC
- 5 Amp Double Pole Relay (1 Pole Powered Output, 1 Pole Volt Free), NO, NC, C
- Firmware control of all logical function.
- True interlock via processor, impossible for 2 doors to open together.
- 9 on board Engineer LED's
- Pluggable terminal blocks, for ease of installation
- Dual Alarm output – 1 Amp, Door Forced & Door Left Open
- 0-62 Seconds adjustable Door Open time.
- Remaining lock open time cancelled once door has opened and closed – Electro-Magnetic monitoring is not suitable for this feature, remaining lock open time will time out.
- 0-60 Seconds adjustable alarm delay
- Individual Door Override inputs, for each door.
- Door status LED output
- All settings adjusted with accurate dip switches
- Fully expandable to infinite numbers of doors, no additional control unit required, simply keep adding 2 door boards.
- Inhibit selection allowing doors to be unaffected by actions from other boards.

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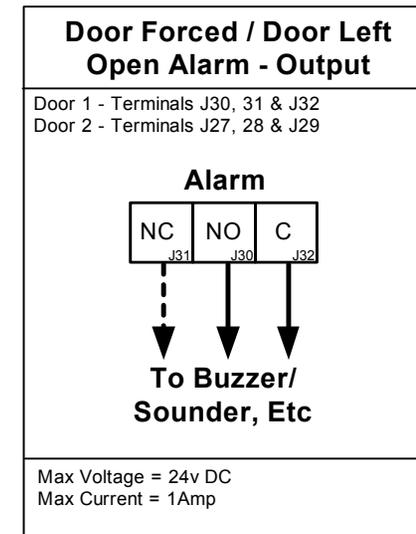
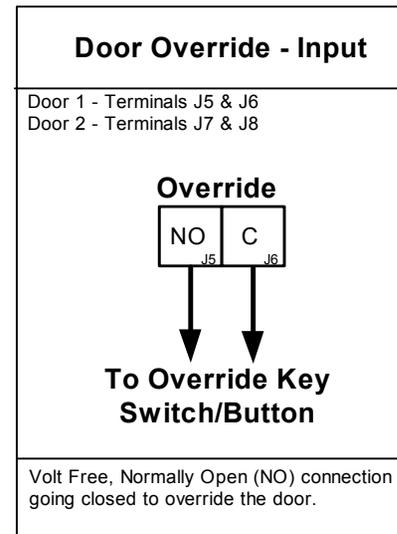
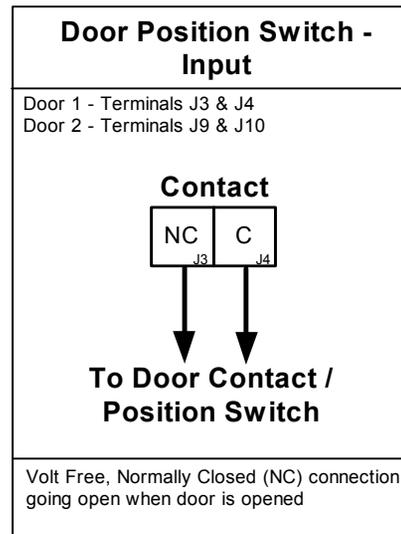
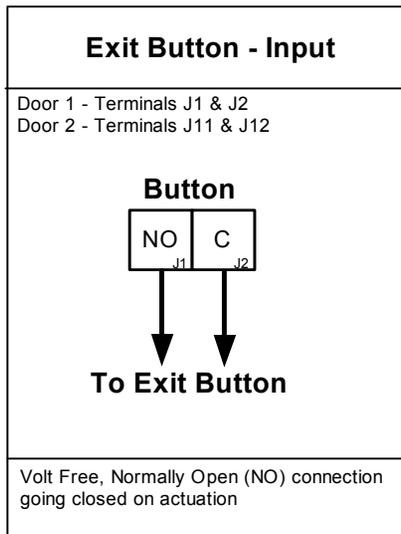
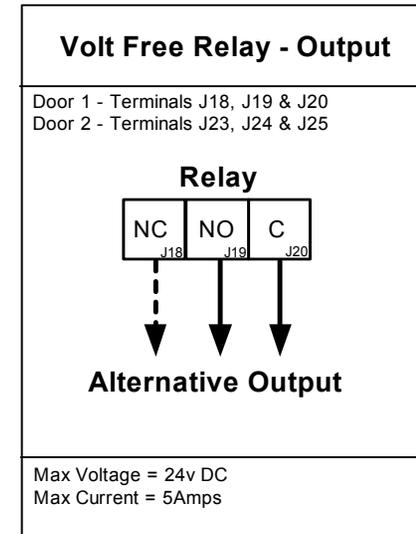
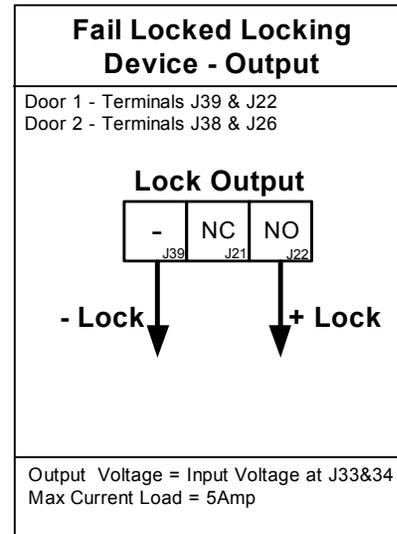
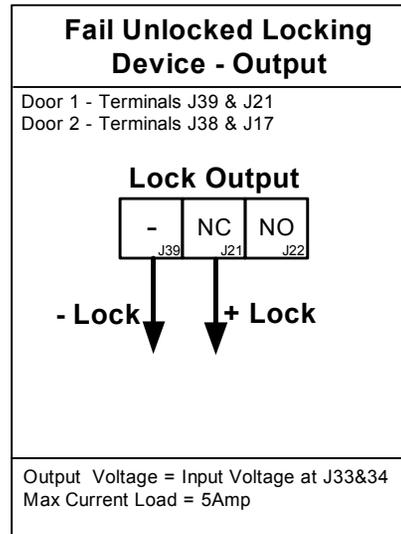
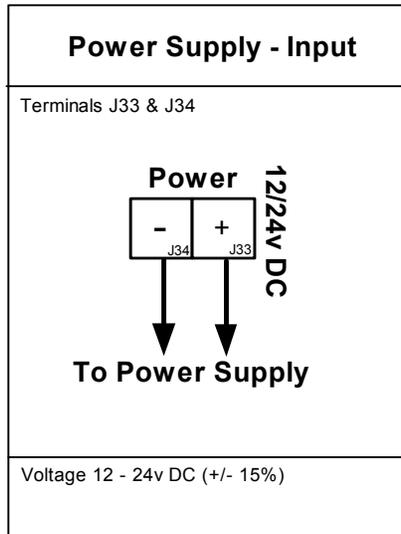


## Installation Notes

- Read instructions fully before making any connections.
- PCB should be mounted in a dry, dust free environment, eg. a power supply.
- Mount PCB on either the metal posts & bolts or the nylon stick-on feet provided.
- NEVER make any connections with the PCB powered on.
- Always make sure the underneath of the PCB is not in contact with any metal or conductive materials.
- Do not apply excessive pressure on the PCB.
- Do not allow any bare connections to come into contact with any part of the PCB, making sure all connections are secured fully inside terminal block and no short circuits are present.
- When powering the board off, allow a few seconds before switching back on.
- When removing pluggable terminal blocks, lift straight up and don't force them.
- The version number of these instructions at the bottom of this page relates to the label on the processor, the letter afterwards relates to the version of instructions for that processor.

If in any doubt please contact your supplier for help on the connections or configuration of this product.

# IEC IB1 Door Interlock Instructions



# IEC IB1 Door Interlock Instructions

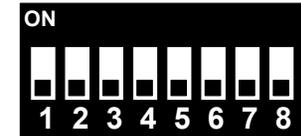
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## Dip Switch Selector



## Dip Switch Selector



**Power Led**  
 Constant Red = Power Applied to PCB  
 Flashing Red = Board interlocked through expansion input.

**Expansion to additional Interlocks**

- 1 - Door 1 ignores inhibit from next lower PCB
- 2 - Door 1 ignores inhibit from next upper PCB
- 3 - Door 2 Ignores Inhibit from next lower PCB
- 4 - Door 2 Ignores Inhibit from next upper PCB

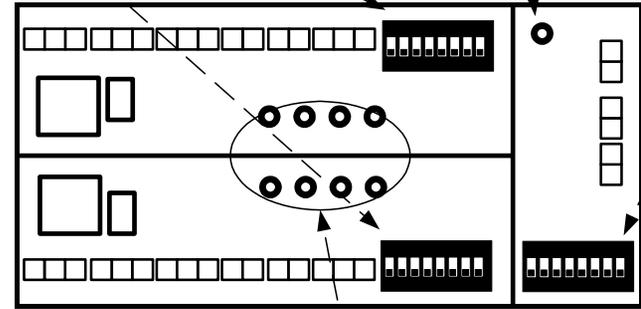
**Warning:** The IB1 works on a hierarchy system, so a lower board may lock an upper board door on occasions. Please contact IEC for more details and help with configuration.

**Door Unlock Time**  
 1 = 2 Seconds  
 2 = 4 Seconds  
 3 = 8 Seconds  
 4 = 16 Seconds  
 5 = 32 Seconds  
 Eg. 6 Secs select 1 & 2  
 20 Secs select 2 & 4

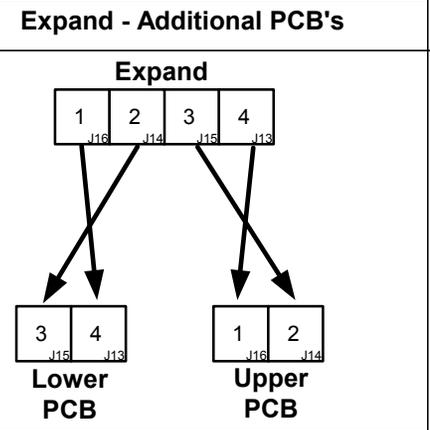
6 Off = Door Left Open  
 6 On = Door Forced

Door Left Open/Forced Time Delay  
 7 = 15 Seconds  
 8 = 30 Seconds  
 Eg. for 45 Secs Select 7&8  
 The use of a time delay for door forced is not recommended

NB. Each Door is controlled independently



**Status LED's**  
 Lower LED's = Door 1, Upper LED's = Door 2  
**Status** = Door Output/Relay Activated  
**Exit** = Exit Button Pressed  
**Door** = Door Open  
**Override** = Override input Active



IB1 interlock PCB's can be expanded infinitely without additional hardware. Simply connect as shown above.  
**NB.** This configuration is for controllers connected to the same 12/24v DC Power Supply. If any boards are on separate power supplies, the Negative (-) power supply input (J34) must be linked on each board

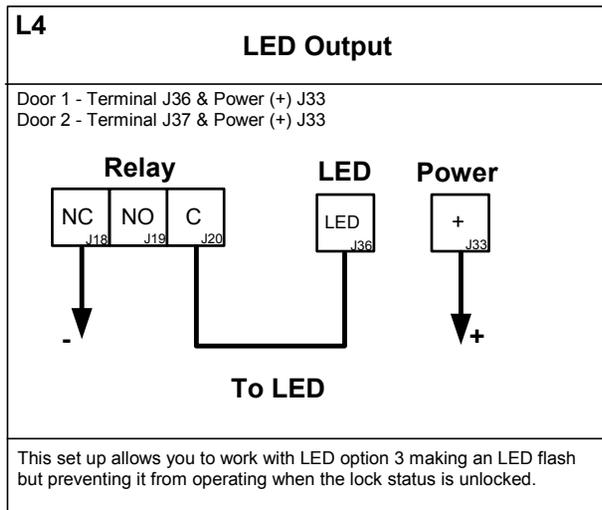
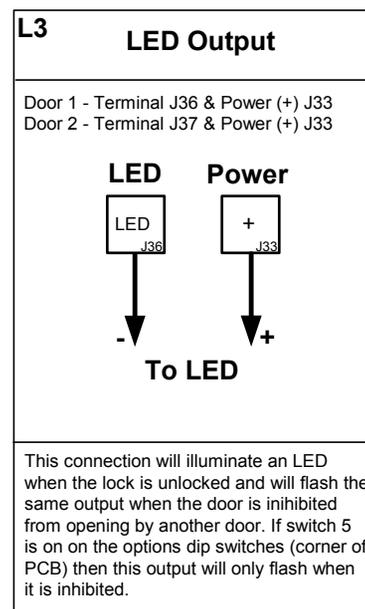
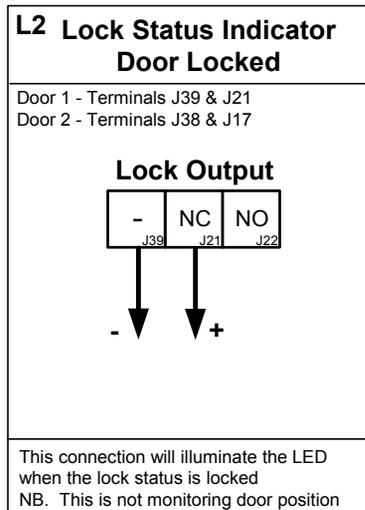
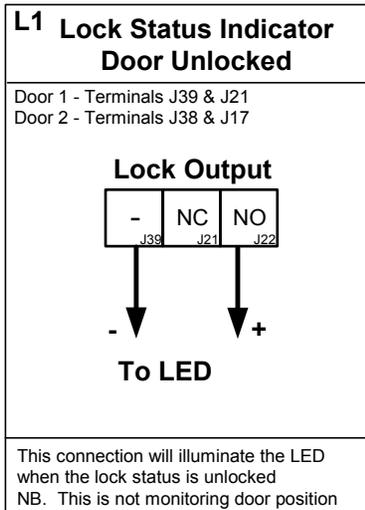
**Cancellation of remaining lock open time**  
 When the door position contact monitors the door has opened and closed, the remaining lock open time will be cancelled. The use of the monitoring on Electro-Magnetic locks will not respond to this feature, the remaining time will time out.

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## LED Indicator Options



**Notes on LED Options**  
The primary function of LED indicators on an Interlock system is to inform users of interlock status

Using 1 LED. This can be on constant when the lock status is unlocked. It will also flash when the door is inhibited by another. - Refer to diagram 3 above

Using 2 LED's at the door. 1 LED can be lock status unlocked, and the other can be door inhibited by another - refer to diagrams 1 & 3 making sure Options Dip Switch 5 is on. Diagram 4 allows the LED to flash when inhibited.

More options are available, if you need any help please contact IEC for more information