

Interguard IG528 Installation Instructions

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Hoyles Electronic Developments Ltd

T. 01744 886600 F. 01744 886607 E. sales@hoyles.com W. www.hoyles.com

The IG528 Interlock controller is a 5,6,7 or 8 door interlock controller also providing the user with good door / interlock status indication at the doors.

Specification

The unit requires 12v dc power, normally from the separate internal power supply.

The 8 x D inputs are for 8 normally closed door contacts (closed when the door is closed).

The 8 x R inputs are 8 normally open request to release inputs (close to request).

The 4 x F inputs are 4 x normally open function inputs (close to invoke the function).

The 4 +ve terminals are for the input references, e.g. R links to + to request to release. D links to + to show that the door is closed and F links to + to invoke the function. These are also the +ve feeds for the remote (at the door) led indications.

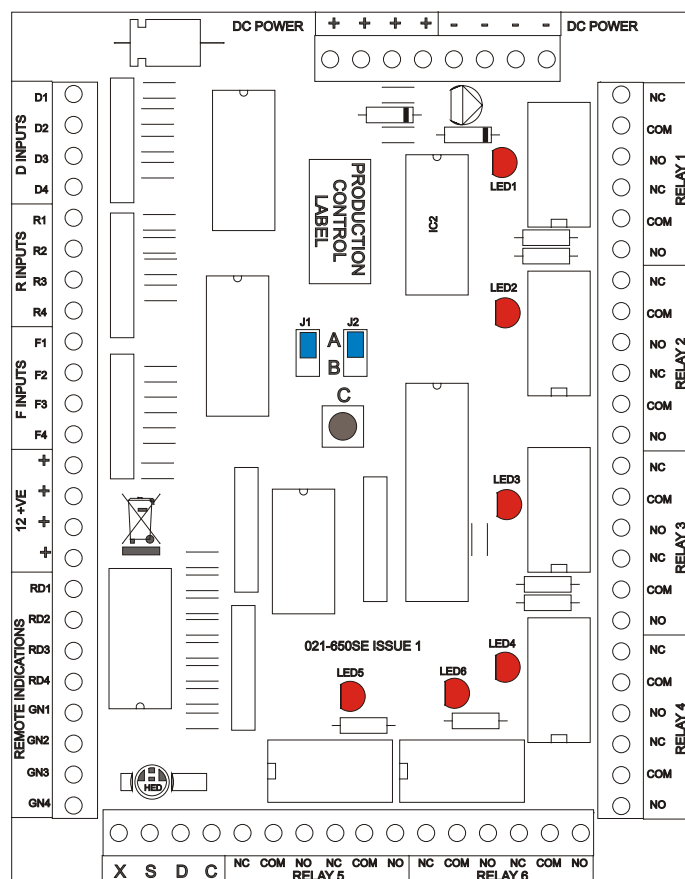
The remote indications are switched -ve for rd (red) and gn (green) indications at the doors.

Each of the 6 relays has 2 sets of clean changeover contacts rated 2Amp at 12vdc.

Relays 1,2,3 and 4 are for the 4 door locks.

Relay 5 is the main breach relay. (Breach 1)

Relay 6 is the secondary breach relay. (Breach 2)



Breach 1 Breach 2

Interlocking Principals

Due to the number of doors, the potential problems with door closers is multiplied, because of this the controller only operates with all doors normally locked and requested to be released.

Operational indications - Red/Green indicators are provided at each door. Normally there are no indications when the door is available for use.

When a door is legitimately used, it will indicate a steady green, with the other doors indicating a steady red.

If the interlock is breached, all door indicators will flash red and the door that caused the breach will alternate with green.

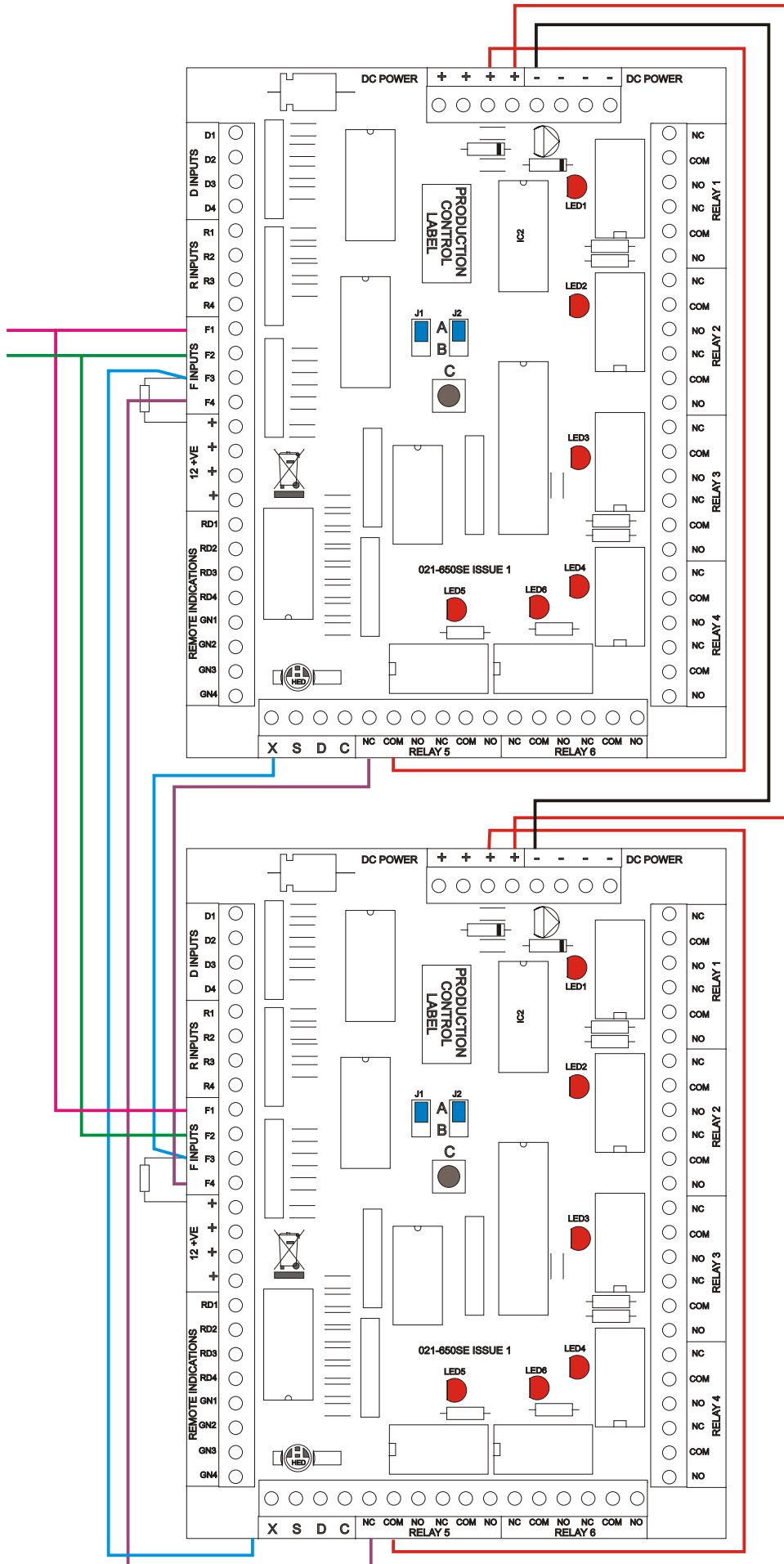
If the doors are all released via the special fire or maintenance release inputs, all door indicators will flash green.

Breach relay conditions

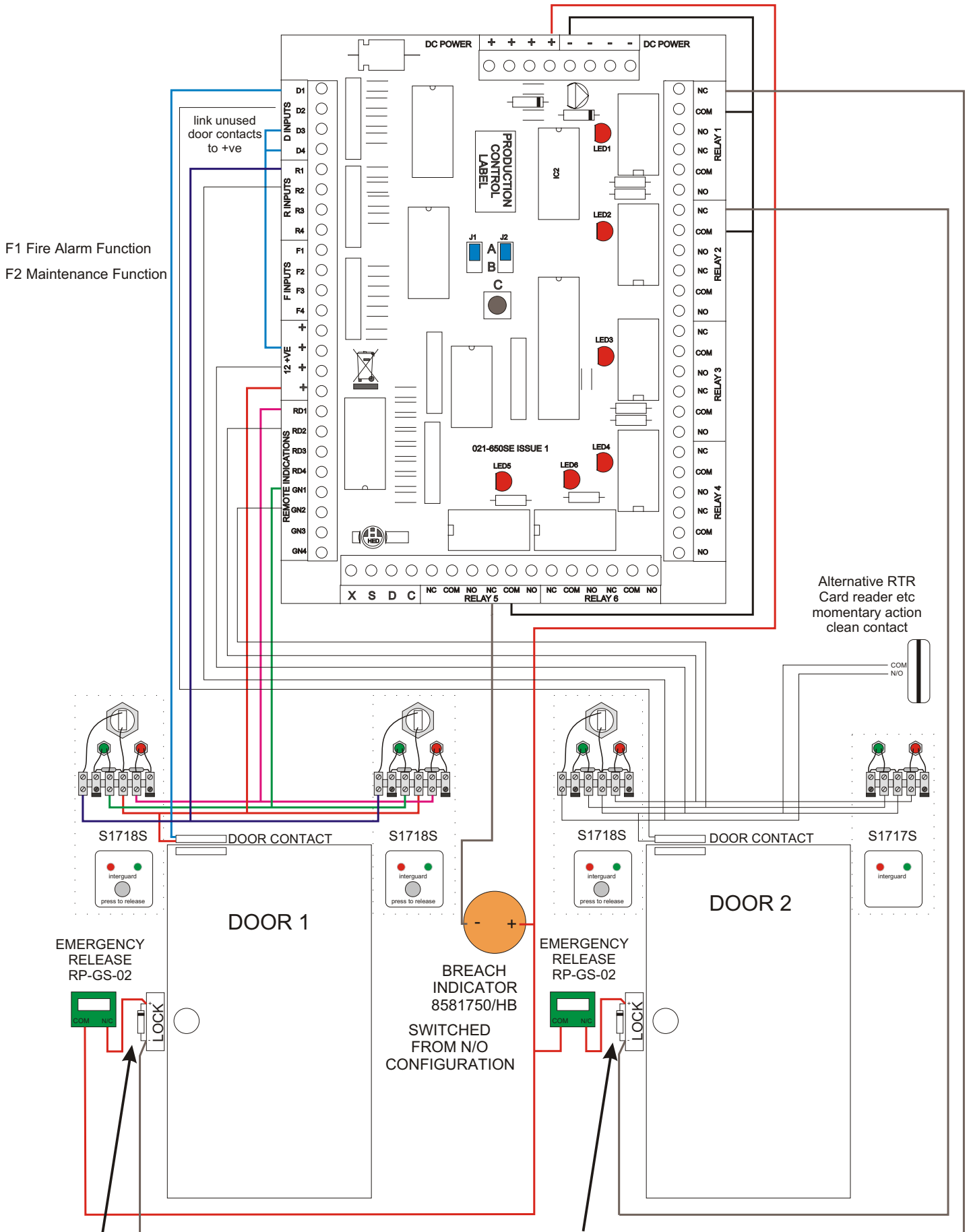
There are 2 breach relays, (Relay 5) Breach 1 (normally energized, ie will operate if power is lost) and (Relay 6) Breach 2 (normally de-energized). If a door is forced, left open too long or a request button pressed for too long a period then Breach 1 relay operates. If there is a fire alarm input both breach relays will operate. If there is a maintenance input only Breach 2 relay operates.

Pre-wired Interconnections

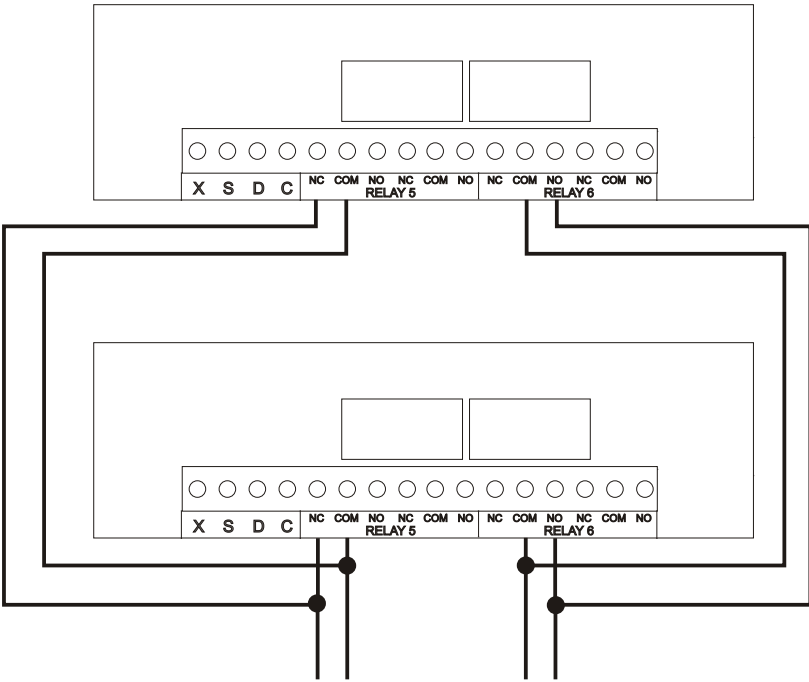
Fire Alarm
Maintenance



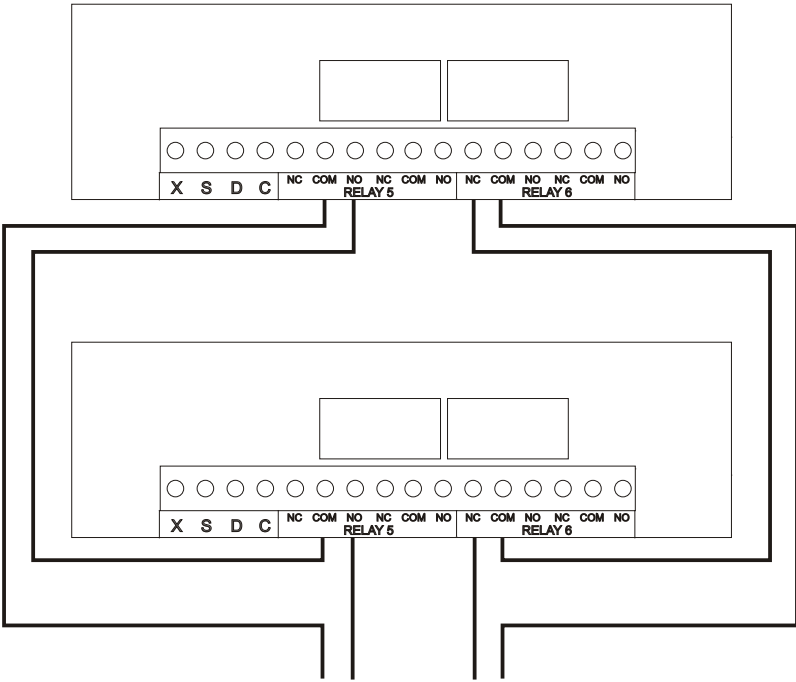
This unit must have locks and request to release



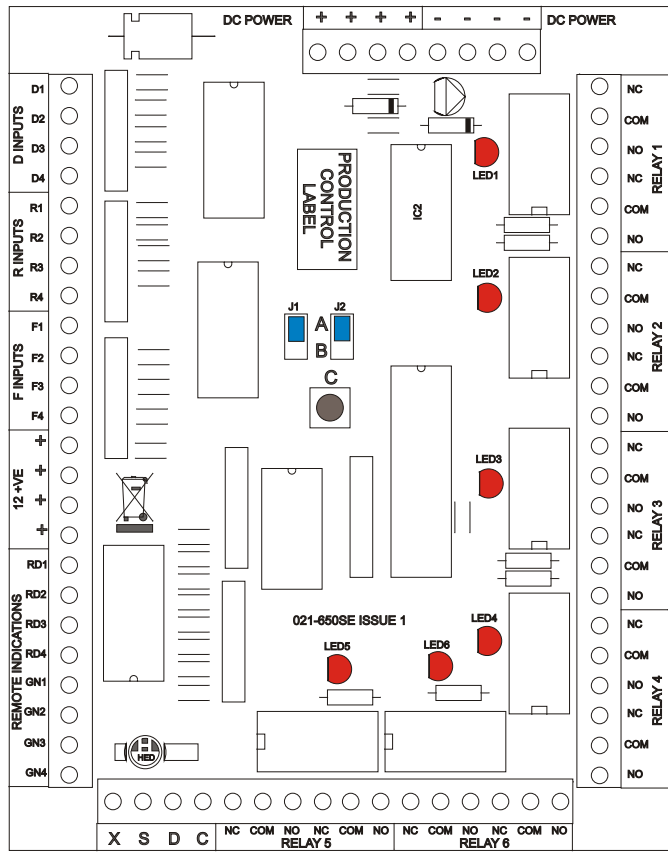
Breach relays normally open pair



Breach relays normally closed pair



Setting up Dwell and DOTL (Door Open Too Long) times.



Breach 1 Breach 2

To set up the dwell time. Move J1 to the B position and momentarily press button C to scroll through the options. Each press will illuminate 1 of the 4 leds, numbered LED1 to LED4.

LED1 Follow the RTR (zero dwell time) Note this will not indicate breach if held on.

LED2 5 seconds (The default time)

LED3 10 seconds

LED4 20 seconds

To set up the DOTL time. Move J2 to the B position and momentarily press button C to scroll through the options. Each press will illuminate 1 of the 4 leds, numbered LED1 to LED4.

LED1 20 seconds

LED2 60 seconds (The default time)

LED3 10 minutes

LED4 85 minutes

The times indicated when the jumpers are returned to position A will be the stored and used as the Dwell and DOTL times.

Note each jumper must be used independently. Do not have both jumpers in position B at the same time. We recommend that both boards are set with the same Dwell and DOTL times.