

PIR Sensor OS2/NVLogiQ

Technical Information and Operating Instructions



Introduction:

The OS2/NVLogiQ PIR interface module assembly is a general purpose 24V dc control module. It has been designed to reduce the trap risk present whenever an activated vent is within finger reach, (i.e. below 2.5M) and can move unexpectedly.

The unit uses passive Infrared detection technology to inform an OS2 control panel whenever it detects the movement of persons in its coverage area.

The OS2 control panel can then be configured to respond as necessary to this signal in an approved manner, typically by instantaneously stopping the actuated movement and holding off the movement until the zone of detection becomes clear again.

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1.0 Specification

Size	110 mm x 60 mm x 65 mm (L x W x D)
Weight	100g maximum
Enclosure	Light grey ABS case
Cable Entry	Drill on site to suit installation
Mounting	2 off 3.5 mm screws and rawlplugs (provided)
Power Supply	19-31V dc
Quiescent Current	12mA Typical, 25mA Maximum
PIR Coverage	2 beam curtain wall
Range	6M - 9M
Fusing	None
Temperature Range	Operating: -10 °C to +50 °C ambient at the case
Storage	-20 °C to +75°C ambient at the case
IP Rating	IP 50

2.0 Connection Details

One external connection point is provided by the PCB. This is labelled "CN6" (Control).

Please note that connector 'CN7' (PIR) is pre-wired in the factory and this wiring should not be altered.

3.0 On Board Configuration Details

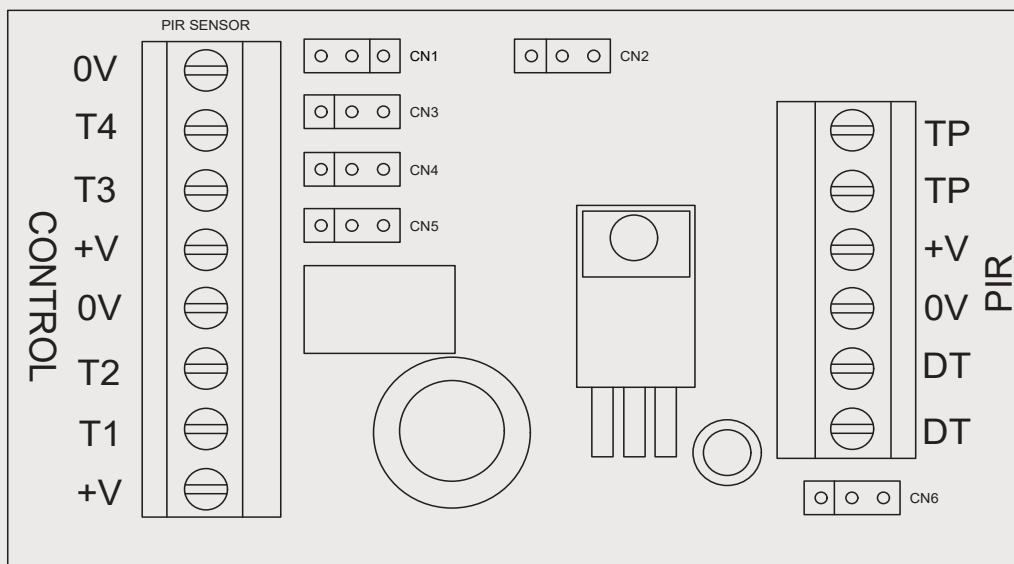


Figure 1 – Control PCB Outline

Please note that the control unit is supplied from the factory with its jumpers set to support the most common configuration encountered on site. Refer to figure 2, page 4 for details.

"CN1 T4=0V". Used to connect the 'T4' terminal to the in coming 0V supply rail. Used when a normally open signalling loop is to be used (Factory default).

"CN2 N/C PIR" Used to determine the type of PIR being used. (Factory default "N/C PIR". Do not adjust.)

3.0 On Board Configuration Details, Continued

"CN3 N/O LOOP" Used to determine when a normally open signalling loop is to be used. (Factory default)

"CN4 T3=0V" Used to connect the T3 terminal to the incoming 0V supply rail. Used when a normally closed signalling loop is to be used. (Not the factory default).

"CN5 N/C LOOP" Used when a normally closed signalling loop is to be used. (Factory default)

"CN8 12VPIR / 24VPIR" Used to select the PIR operating voltage. (Factory default "12V PIR". Do not adjust)

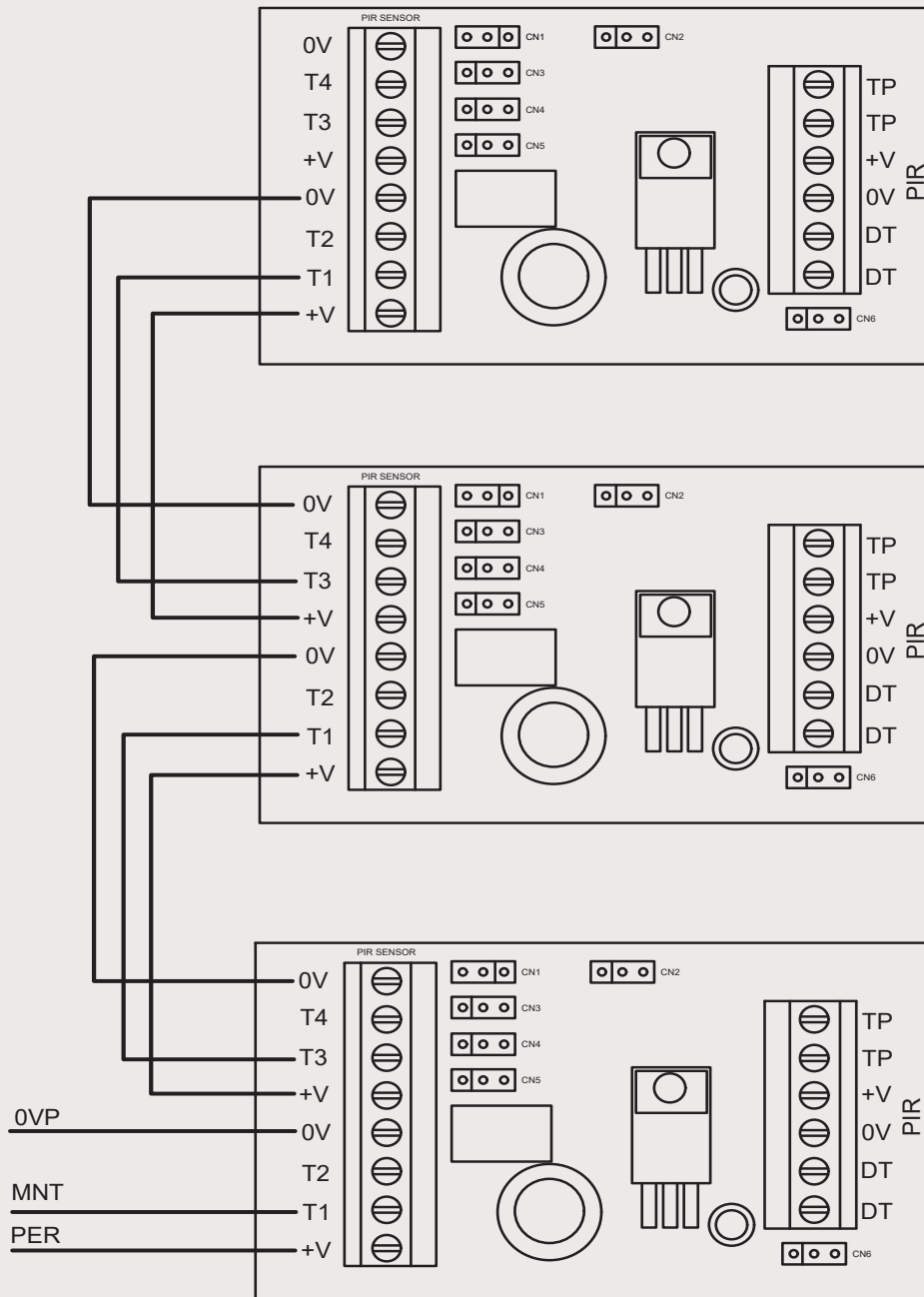
4.0 Mounting

To give the installer maximum mounting flexibility, the enclosure does not come pre-drilled with gland holes.

Before drilling gland holes, please remove the PCB from the assembly. Whilst the PCB is removed from the base of the enclosure, the case can be used as a template to mark the positions of the fixing holes on the mounting surface prior to drilling.

Please note that suitable rawl plugs and fixing screws are provided for this purpose.

5.0 Connecting the Controller



Note that the '0V' and '+V' terminals are common allowing the module assembly to be used as a junction box on radial connection if desired.



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Lancaster House
Wellington Crescent
Fradley Park, Lichfield
Staffordshire WS13 8RZ
United Kingdom

+44 (0)1543 443060
sales@secontrols.com
www.secontrols.com

