

DRS REAR PANEL CONNECTIONS

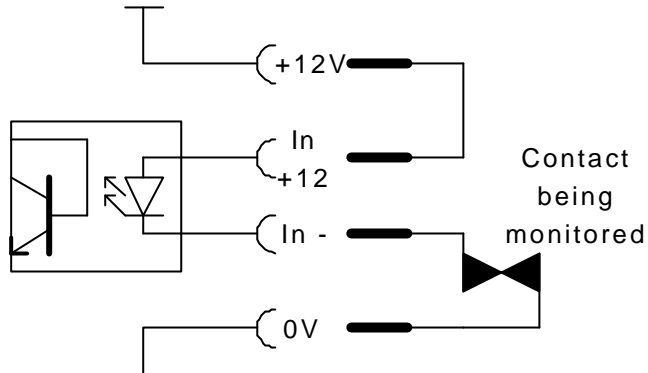
Connectors

Each group of four inputs is provided with a 15-Pin female Dee-type connector.

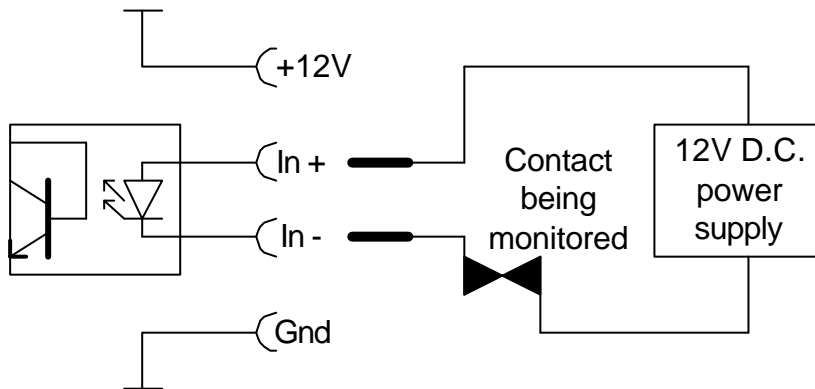
Pin 1	Input 1, +12V		Pin 9	Input 1, +24V
Pin 2	Input 2, +12V		Pin 10	Input 2, +24V
Pin 3	Input 3, +12V		Pin 11	Input 3, +24V
Pin 4	Input 4, +12V		Pin 12	Input 4, +24V
Pin 5	Input 1, -V		Pin 13	+12V out, 100mA max
Pin 6	Input 2, -V		Pin 14	
Pin 7	Input 3, -V		Pin 15	0V (common)
Pin 8	Input 4, -V			

Connections

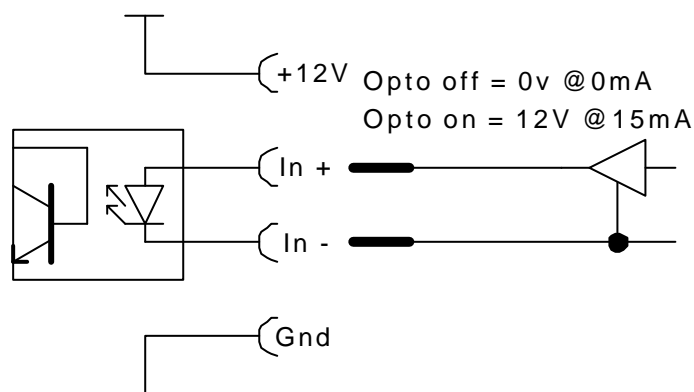
The diagram below shows how a voltage free contact should be wired to use the internal 12V supply.



Using an external power supply.



The Opto-diodes can be driven by **active** outputs as shown below

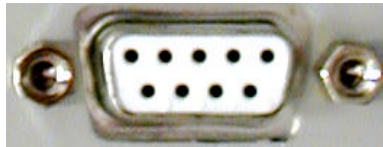


N.B. If an external supply or active drive is used, careful attention must be taken over ground routing.

Appendix E

Common Fault Relay

The common fault relay is activated on detection of any fault. It could be used to enable a sounder or light indicator on detection of a fault, to alert an engineer of a fault on the system.



Pin 1 Relay Wiper
Pin 2 NC when not in fault
Pin 3 NO when not in fault
Pin 4-9 No connection
The contacts are rated @ 30V 1A

Power Supply

230V 50Hz, the mains fuse (T500mA 20mm) is mounted within this connector. The fuse carrier also contains a spare fuse. To reduce the risk of fire replace the mains fuse only with the same type.

DC power inlet

There is an optional (24V+/- 1V @ 1A) input provided above the mains input. This can be used instead of the mains or as battery backup should the mains fail. The plug is a standard DC connector with 2.5mm dia, 5.5mm external and 14mm long. The centre pin is positive.

