

### **Odyssey Three Channel input / Output Unit 200-200**



The Odyssey Three Channel Input/Output Unit is available in the following options; in a plastic enclosure, in a plastic enclosure and with built in bi-directional short-circuit isolator, as a printed circuit board (PCB), as a PCB and with built-in bi-directional short. The Odyssey Three Channel Input/Output Unit provides three voltage-free, single pole, changeover relay outputs and three monitored switch inputs. The Odyssey Three Channel Input/Output Unit supervises one or more normally-open switches on each of the three inputs. It is set to return an analogue value of 4 in the event of an open or short-circuit fault and 16 during normal operation. The status of the inputs is reported by means of three input bits. The change-over contacts of each relay are operated by three command bits. If the model is ordered with a short-circuit isolator the Input/Output Unit will be unaffected by loop short-circuits on either loop input or output. The Odyssey Three Channel Input/Output Unit is loop powered and operates at 17-28V DC with protocol voltage pulses of 5-9V. The unit will operate only with control equipment using Odyssey protocol.

## **PRODUCT SUMMARY**

### **Low Voltage Directive 73/23/EEC**

No electrical supply greater than SOV AC rms or 75V DC should be connected to any terminal of this 3-Channel Input/Output Unit.

### **EMC Directive 89/336/EEC**

The 3-Channel Input/Output Unit complies with the essential requirements of this directive, provided that it is used as described in this PIN sheet and that the contact is not operated more than five times a minute or twice in any two seconds. A copy of the declaration of Conformity is available on request. Conformity of the Odyssey Three Channel Input/Output Unit with the EMC directive does not confer compliance with the directive on any apparatus or systems connected to it. The PCB only versions are sold as components to be used in a professionally designed system or apparatus. It is, therefore, outside the scope of the directive and hence is not CE marked.

The Input/Output Unit is supplied in an enclosure for surface mounting or as a PCB. The enclosure is moulded from self-extinguishing, glass-filled ABS. Ten 16mm/21mm and six 22mm/38mm dual diameter cable entry knock-outs are provided. Ten LEDs, six red and four yellow, are fitted to the PCB. All LEDs except the isolator LED can be disabled to conserve loop current. For each channel, one red LED is illuminated to indicate that the relay is set; a second red LED is illuminated to indicate that the switch input is closed and a yellow LED is illuminated to indicate an open or shortcircuit fault. A separate yellow LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.