

OPTO SWITCHER

42-682 Opto Switcher

This free-standing unit allows the remote switching of mains powered equipment while maintaining electrical isolation from the mains. Control is implemented using either a closing contact across XLR pins 1 & 3, or by applying 5-15 volts DC across XLR pins 2 & 3.

Switching occurs at the zero-crossing point of the mains cycle, which together with spike suppression components, ensures that interference is virtually eliminated. Mains input and output connectors are IEC(CEE22) 3 pole with a 20mm fuse on the input line. The control input uses a 3 pin female XLR panel connector.

SWITCHING METHOD (1)

Apply a closing contact across pins 1 and 3 of the control XLR. IF logic or transistorised switching is intended, the following information may be helpful:

- (1) Pin 1 is at zero volts.
- (2) Pin 3 Open circuit voltage is approximately 5 VDC (load switch off)
- (3) Pin 3 when forced low (<1v) requires a current sink capability from the switching element of 17mA.

SWITCHING METHOD (2)

The load may alternatively be switched by applying between +5 to 15 VDC to pin 2 relative to pin 3. If the only available switching voltage is higher than 15V a series 1KO resistor connected to pin 2 will enable DC voltages of up to 50V to be used.

TECHNICAL SPECIFICATION

Mains input:	230 VAC
Fuse:	20mm; 6.3(T)HRC (Stock code:42-275)
Max load (resistive):	1.5kW
Contact closure output sink requirement:	5 VDC @ 17mA (close to switch load on)
DC input:	5-15 (pin 2 positive) (close to switch load on)
	5 VDC @ 9mA
	15 VDC @ 40mA
Control to mains isolation:	1.5 kV
Size:	Standard extruded case; 107 x 93 x 50mm
Weight:	320g
Mating connector stock codes:	
IEC input	42-154
IEC output	42-153
Control input	40-322

Ensure that case receives adequate ventilation.

WARNING: THE CASE IS CONNECTED TO MAINS EARTH-ALWAYS USE MAINS EARTH!

