

## CONTROL METHOD

The control method is the same whether supplied as a part of a new dimmer switchboard (of the various direct operated mechanical types or of the electronic type), or supplied as a self-contained switching unit for addition to an already completed installation. The control panel appears as the centre part of the board on page 1 of leaflet H.61. The sole exception is the Strand Light Console which operates through a relay selector from the sets of five black keys shown on leaflet H.81.

The colour selector solenoids to each lantern are fed by a 165 volt D.C. supply through a set of four double-pole switches and one single-pole (Fig. 3). The former feed a solenoid coil and the motor for

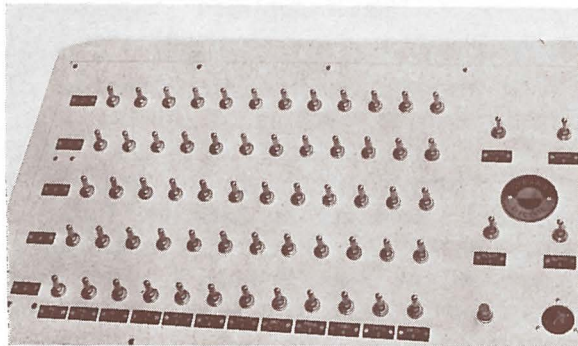


Fig. 4. Control panel.

P.V.C. insulated and sheathed cable (which we stock) is recommended for this purpose though the common returns shown on the right may have to be heavier as each mechanism should be allocated 0.3 amp. for the solenoids and 0.5 amp. for the motor. Alternatively, the motor and coil returns can be run back separately for each unit using ways 6 and 7 on each 7-core, the "commoning" of them being done at the control end. Up to six sets of mechanisms can be paralleled to one set of switches; however, to make the best use of the device it is recommended that the number of sets of colour change switches should match the number of dimmer ways controlling the particular group of lanterns. Thus a circle front of 12 lanterns on 12 separate dimmers will require 12 mechanisms and 12 sets of five colour change switches (60 in all); on the other hand 12 lanterns paired on six dimmers will require 12 mechanisms but six sets of five colour change switches (30 in all).

## REMOTE COLOUR CHANGE CONTROL BOXES

**SPECIFICATION.** Box constructed of sheet metal with switch panel formed as hinged front to allow access. Box contains full-wave metal rectifier of ample capacity having an output of approximately 165 volts D.C. for solenoid coils. Rectifier is fed with 50 cycle A.C. of 220-250 volts which is also used for the colour change motors. In series with the main A.C. supply is a sprung-open push switch used to energise coils and motors for a change as these are not constantly rated for continuous use. Box is complete with all internal connections, wiring being brought by flexible lead from hinged switch panel to a terminal block on fixed part of the box. Finish: black crystalline enamel outside with coloured and engraved ivorine labels where appropriate.

### STANDARD CONTROL BOXES

Ways	Wide	High	Deep	Weight	Price
1 } 2 } 3 } 4 } 5 } 6 } *7 } *8 } *9 } *10 } *11 } *12 }	1 ft. 1 in.	10 in.	8 in.	17 lb.	
	1 ft. 6 in.	1 ft. 0 in.	8 in.	20 lb.	
	1 ft. 8 in.	1 ft. 0 in.	10 in.	40 lb.	
	2 ft. 4 in.	1 ft. 2 in.	10 in.	54 lb.	

\* For seven ways and over, master switches are fitted to each of the five colour groups.  
Control panels for over 12 ways, price on application.

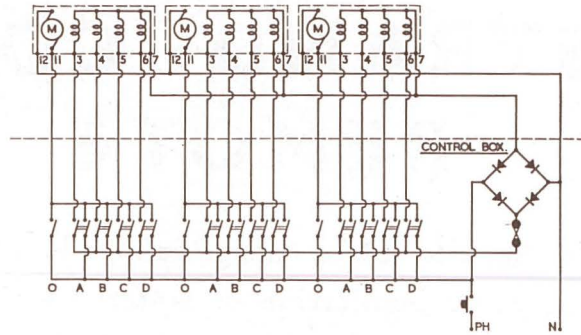


Fig. 3. Circuit diagram.

each colour; the latter feed only the motor for white (all colours out). The method of operation is to select the switches for the combination of colours (A, B, C or D) or white (O) required and press the master push for the change. The switches can then be set for the next change; lanterns not required to "change" have their switches put in the "off" position to cut out unnecessary mechanism noise.

### WIRING (see diagram Fig. 3)

The dotted rectangles at the top represent each colour change mechanism and the numbers identify the terminals on the lantern multi-way plug sockets. The wiring between the plug sockets and the dotted line marked "Control Box" is external and not supplied by us. 14/0076 7-core