



ENVIRON

COMMERCIAL LIGHTING DIMMER CONTROLS
INSTALLATION INSTRUCTIONS

This leaflet refers to the following types of Commercial Lighting Control outstations. Always use the seven-digit Rank Strand order code for reference.

09 880 02	One-way Up/Stop/Down Pushbutton Control
09 881 08	Two-way Up/Stop/Down Pushbutton Control
09 882 03	Three-way Up/Stop/Down Pushbutton Control
09 160 14	Six-Way Linear Fader Control

GENERAL INFORMATION

Rank Strand ENVIRON commercial lighting controls are designed for use with Strand ENVIRON dimmers and the full range of Rank Strand thyristor dimmers to provide a Lighting Control system. This leaflet details information required for the electrical installation of the Up/Stop/Down Push-button and Six-way Linear Fader control outstations. Leaflet ARCL01 (Issue 2) describes the remainder of the range.

CONSTRUCTION

Rank Strand Commercial Lighting Control outstations are designed to fit standard 35mm deep flush wallboxes of the appropriate width. A suitable box is provided with each unit. The control outstation front panels are finished in anodised aluminium.

All outstations require a low-voltage supply of -15V with respect to Technical Earth. Those that control dimmer levels provide the usual dimmer control voltage output associated with Rank Strand dimmers, i.e. 0V to -10V, corresponding to zero to full dimmer output.

CONNECTIONS

Access to the terminal area of a control outstation is made by removal of the screws which fix the front panel to the wallbox.

Connections to outstations should be made using multicore cable, preferably flexible, with conductor sizes not exceeding 1.5 square millimetres. If this cable must run in the same trunking as any mains power wiring, it must be screened and insulated to at least 415 volts, subject to local authority regulations. Suitable cable is available from Rank Strand.

The outstations conform to the general wiring convention that the lowest numbered terminal (usually terminal 1) is used for Technical Earth and the highest numbered terminal is used for -15 volts. The terminal numbers referred to are those printed on the circuit board by the connector. Detailed wiring information will be found in the tables below.

Up/Stop/Down Push-button Controls

	1-way up/stop/down pushbutton control	2-way up/stop/down pushbutton control	3-way up/stop/down pushbutton control
Pin 1		0V	0V
Pin 2		Ch 1 Up	Ch 1 Up
Pin 3		Stop	Stop
Pin 4		Down	Down
Pin 5		Not Used	Not Used
Pin 6		Ch 2 Up	Ch 3 Up
Pin 7		Stop	Stop
Pin 8		Down	Down
Pin 9		Not Used	Not Used
Pin 10		-15V	-15V
Pin 11	0V		0V
Pin 12	Up		Ch 2 Up
Pin 13	Stop		Stop
Pin 14	Down		Down
Pin 15	Not Used		Not Used
Pin 16	-15V		-15V

Six-way Linear Fader Control

This consists of two 3-way Linear Fader units combined. The terminals on each half of the unit are as follows:

Pin 1	ØV
Pin 2	Dimmer 1 Control
Pin 3	Dimmer 2 Control
Pin 4	Dimmer 3 Control
Pin 5	-15V

The ØV and -15V terminals on one half of the unit should each be linked to the similarly labelled terminal on the other half.

SAFETY WARNING

These products are designed for use with extra low voltage (15V d.c.) and are not insulated or rated for operation at mains voltages. Do not connect (or expose to accidental connection) these outstation controls to mains potential wiring. If fitted adjacent to mains potential controls, ensure that this control wiring area is enclosed by an earthed metal screen such as the Contracting box provided.

REGIONAL OFFICES

All servicing should be undertaken only by a Rank Strand approved agent. For information regarding Commercial Lighting Controls, contact your nearest Rank Strand Office or agent, quoting the seven-digit order code for the unit as a reference. A list of appointed Service Agents is available, on request, from the Head Office of Rank Strand.

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