



Operating Instructions

Please try and read at least once before discarding!!

SD4 4 way Fader Panel

SD4

The Anytronics SD4 is a 4 way fader panel with a flash switch for each channel designed for use primarily with the 'Black Box' range of dimming packs, model numbers DP405, DP410 and DP805.

A unique feature of this unit is the input facility, which allows signals from a low voltage source, such as a Light System or Light Chaser, to be dimmed by the sliders en route to the dimming pack. This enables the lighting to be changed from static to chaser mode at any desired level by activating a single switch on the front panel. Two L.E.D's provide a quick visual check on the status of the SD4.

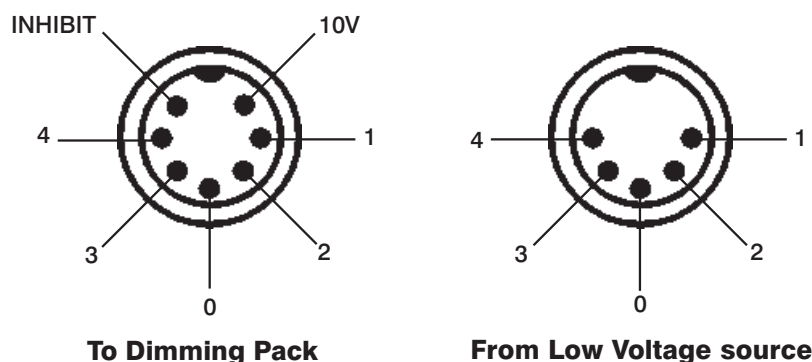
If one or more SD4's are to be used in a particular application, it may be desirable to dim all channels simultaneously. This can be achieved by adding a Master Level Control (MLC). The MLC is a module 1 sized unit half the size of the SD4 and consists of a slider and blackout switch.

The connection system between the MLC and the SD4's is very simple, it just needs 3 wires; 0.25mm equipment wire is sufficient, from solder pads A, B and C from the MLC parallel connected across the SD4's up to the maximum of 12 units. Any SD4's used with the MLC must have the raised link clearly visible on the rear of PCB, removed. This can be done by either cutting it out or desoldering and lifting at least one end.

A further solder pad marked 'D' can also be used, however this will result in any preheat that has been set on the dimming packs being switched off in the blackout position, so unless this is particularly desirable we would not recommend it.

The SD4's and MLC's are both designed to mount into the Module 6 19" x 3U Skeleton Rack Panel which will accept up to 3 SD4's. Alternatively the SD4's can be supplied with a rear cover for table top use or wall mounting. If required, 1 x SD4 and 1 x MLC can be mounted together in the Mini Desk 6 rear cover. Connections to the SD4 are via screw terminals, however, provision exists for 2 DIN sockets to be fitted if required.

Pinout of DIN Sockets when fitted (viewed into socket)



Technical Specification

Power Requirements	10V @ 20mA available from Dimming Pack
Output	0 – 10V analog
Low Voltage Inputs	Opto Isolated 10V @ 5mA
MLC	10V supplied from SD4 - A modified version of the MLC is available for using as a remote control for the Pro-Dim Single Channel 10 Amp Dimmer.

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Low Voltage Inputs

Via 2 x 5 pin 180° DIN sockets connected in parallel, which are fully isolated. Pin configuration is as detailed looking into the sockets. Input voltage range +5 to 20V d.c. Required input current 5mA at 10V approx. per channel. It is not necessary to use screened leads between power pack and control unit. The second socket is fitted for daisy chaining power packs together. A total of five can be linked in this way from each output of the Anytronics SP 1200 switch panel (i.e. total of 15 power packs per switch panel). Daisy chaining will be limited by the current available from the control unit; if too many power packs are daisy chained the power packs will not be damaged, they will either not operate or will switch unreliably.

Enable/Disable Jack Socket

This is a 1/4" mono switched socket, which breaks the 0V when plug is inserted, thus disabling the power pack. Connecting the two poles of the jack plug together will enable the unit. We recommend the use of the Anytronics ZP 1200 Zoning Unit for enabling/disabling any number of power packs up to a maximum of 12. Use standard two core cable for this purpose.

L.E.D. Power Indicator

This will show when the mains supply to the electronics of the unit is connected.

3 x 20mm Entry Ports

Input and output connections are clearly defined on the PCB. If you wish to separate the electronics supply from the Triac supply, simply remove the two links in the 'ELECTRONICS ONLY' box on the PCB. Then connect mains supply to the 'ELECTRONICS ONLY' 'N' and 'LIVE' screw terminals, and the Triac 'SUPPLY' with a suitable a.c. voltage between 12-240V from a suitable external source.

NOTE: Zero voltage firing will be retained only if Triac supply and electronics supply are on the same phase. Other power packs within the installation can be wired to different phases. For mains switching the 'SUPPLY' connections to the Triacs also feed the electronics via the two links mentioned above.



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