

Fault finding

Lamps do not dim:

- Disconnect the 1-10V dimmer, the voltage across the terminals of the 1-10V ballast should be at 10V and the lamp should be on full, if not there may be a problem with the 1-10V ballast.
- Reconnect the 1-10V lines and check whether the voltage can be varied via the dimmer.

Lamps do not switch off:

- The dimmer can only dim the lamps down to about 10% via the 1-10V lines, the lamps are switched off by the dimmer removing the power to the ballast. The ballast must be connected to the SL output of the dimmer, not directly to a permanent live supply.

Precautions and Warranty

This product conforms to BS EN 60669-2-1 and BS EN 55015:1993

Please ensure the most recent edition of the appropriate local wiring regulations are observed and suitable protection is provided e.g. 6 amps over current, 1kV over voltage. Please ensure that this device is disconnected from the supply if an insulation test is made.

This product is covered by a warranty which extends to 5 years from the date of manufacture.

Also available from DANLERS

- PIR occupancy switches • Daylight linked dimmers • Manual high frequency dimmers
- Photocells • Radio remote controls • Time lag switches • Outdoor security switches
- Dimmers • Heating, ventilation and air-conditioning controls • Bespoke / O.E.M. products

Please call for more information or a free catalogue, or visit our website.

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DANLERS

Installation notes

1 to 10V ballast Dimmer Module

DPD10VDCMB

DP1D10VDCMB

DP2D10VDCMB

These dimmers are suitable for controlling the brightness of loads controlled by 1-10VDC high frequency dimmable ballasts.

DPD10VDCMB dimmer module suitable for fitting onto an OEM wall plate.

DP1D10VDCMB 1 gang, plated dimmer

DP2D10VDCMB 2 gang, plated dimmer

The control comprises a push-push on/off switch and a rotary control function. This enables the lights to be switched on and off at the selected brightness.

These dimmers are suitable for one or two way switching.

Loading limits

Each gang / module can control up to twenty 1-10V ballasts.

- Assuming each ballast draws 1mA (or less) through the voltage control lines.

Total load including ballasts, lamps plus other load must not exceed the following (per gang):

- 6 amps (1500W) Incandescent or mains halogen lamps (recommended with integral safety fuse)
- 4 amps (1000W) Electronic or wire wound transformers. Fluorescent lamps (high frequency or soft start)
- 2 amps (500W) 2 amps (500W) of CFL, 2D lamps, LED Drivers and LED lamps and fittings.
- 1 amp (250W) Most metal halide lamps and fans.

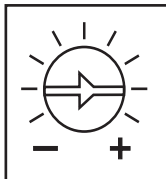
Minimum load 2W resistive, suitable for most energy saving lamps, LEDs and emergency fittings.

IMPORTANT: Due to potential high in-rush current we do not recommend these products for switching LED panels unless through a switching contactor. Please see LED panel manufacturers instructions for in-rush current details.

Installation procedure

1. Please read these notes carefully before commencing work.
In case of doubt please consult a qualified electrician.
Make sure the power is isolated from the circuit.
2. DANLERS push and rotary 2-way 1 to 10V ballast dimmer modules should be connected as:

- L1 Live 1 (position 1 of 2-way switch)
- L2 Live 2 (position 2 of 2-way switch)
- SL Switched Line output (to ballast)
- of control voltage (to ballast)
- + of control voltage (to ballast)



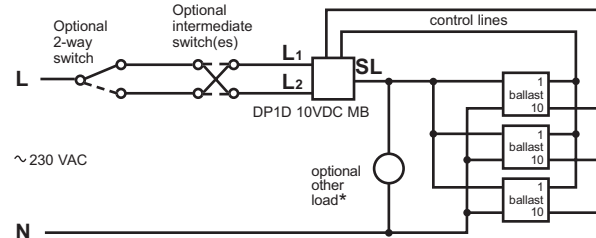
3. Typical wiring diagrams are shown opposite.
4. Should the lamps or fittings flicker when the dimmer is in the lower end of its range the minimum dim level spindle should be turned to the point at which the lamp stops flickering - see diagram opposite.
5. Once the wiring has been completed and verified, switch on the supply and test the operation.

DPD10VDCMB is supplied with a M10 x 0.75mm lock nut for securing the module to other equipment manufacturers plates (new or retro-fit). The module is fitted behind the plate with the lock nut position in front of the plate.

Please note that you must use the supplied DANLERS lock nut NOT an existing lock nut as the pitch may not be compatible and your warranty may be invalidated. DANLERS cannot be help responsible for installers over tightening the lock nut on other equipment manufacturers plates.

Typical wiring diagram

**DPD10VDCMB dimming several 1-10VDC ballasts
(optional multi-way switching illustrated)**



* Total load of ballasts, lamps plus other load not more than 6 amps