

DANLERS

Installation notes

Fault finding

Lamp dims up and down constantly:

- Ensure momentary remote switches have been used
- Button pressed too hard and jammed. Release button
- Slave wiring more than 10m long. Use shielded or twisted wiring.

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 to see if 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.
- When switching very small, non resistive loads, such as LED drivers, the load may need to be augmented with a CAPLOAD device wired between the Switched Line and Neutral at the fitting.

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.

DANLERS Limited, Vincients Road, CHIPPENHAM, Wiltshire, SN14 6NQ, UK.
Telephone: +44 (0)1249 443377 Fax: +44 (0)1249 443388
E-mail: sales@danlers.co.uk Web: www.daniers.co.uk
Company Registered Number 2570169 VAT Registration Number 543 5491 38



1 to 10V ballast Dimmers (grid modules)

DSSGD MK 10VDC DSSGD CB 10VDC DSSGD EU 10VDC

These 1 to 10V soft start ballast dimmers are suitable for fitting into the MK Grid Plus, Crabtree grid and Eurodata plates.

The soft start feature ramps up the ballast control voltage which can greatly increase lamp life, particularly for low voltage lamps.

A short press will switch the ballast off via the switched line output or energise the switched line output and restore the ballast control voltage softly to its previous setting.

A holding press will dim the control voltage up and down in turn.

The ballast can be switched **and** dimmed from several locations by using mains rated, momentary, normally-open push-to-make switches. Remote switches are available from both MK (K4885) and Crabtree (4489).

Loading limits

DANLERS 1-10V dimmers can power up to 6amps (1500W) of:

- High frequency ballast dimmed fluorescent lamps
- High frequency ballast (driver) dimmed LED lamps etc.

They can control up to twenty 1-10V ballasts.

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

Wall box depth

The 1 to 10V ballast dimmers need the following minimum depth wall boxes:

- DSSGD MK 10VDC 35mm
- DSSGD CB 10VDC 40mm
- DSSGD EU 10VDC 35mm

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. The 1 to 10V ballast dimmer should be connected as:
L Live
N Neutral
SL Switched Line output (to ballast)
R Mains-rated momentary Remote switch (optional)
- - of control voltage (to ballast)
+ + of control voltage (to ballast)
3. Typical wiring diagram shown opposite.
4. Please note: Failure to connect the unit as shown may result in damage to the product.
5. Please note: If using Remote momentary switch(es), each connecting cable should be twin core of at least 1mm² cross section and not exceed 10 metres in length.
6. Once the wiring has been completed and verified, switch on the supply and test the operation.

Typical wiring diagrams

