

## Troubleshooting

### Lamp dims up and down constantly:

- Ensure slave switch has been used, not two way switch
- Button pressed too hard and jammed. Release button
- Slave wiring more than 10m long. Use shielded or twisted wiring.

### Load cannot be controlled by slave switch:

- Ensure only DANLERS slave switches are used.

### Load can only be switched off or dimmed down by slave switch:

- Ensure that the slave switch is connected to L and not to V.

### Lamp flickers:

- Minimum load not reached. Fit RESLOADE
  - Electronic transformer unstable. Try fitting: RESLOADE
  - Load incompatible with 'leading edge dimming'
- Please consider using DANLERS Quiet Grid dimmer.

### Soft start dimmer fails after some time:

- Halogen lamp, not incorporating an integral safety fuse, failed.

### Soft start dimmer 'buzzes':

- This can occur with 'leading edge' dimmers,
- Please consider using DANLERS Quiet Grid dimmer.

### Soft start dimmer gets warm:

- This can occur with dimmers, especially when controlling large loads.

## 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

## Soft Start Grid Dimmers

DSSGD MK400W

DSSGD CB400W

DSSGD EU400W

DANLERS 'leading edge' soft start dimmers are suitable for fitting into MK Grid Plus (MK), Crabtree grid (CB) and Eurodata plates (EU).

The soft start feature electronically ramps up (virtually indiscernible) the output voltage which can greatly increase lamp life, particularly for low voltage lamps.

A short press will switch the load off or restore it softly to its previous setting. A holding press will dim the load up and down in turn.

The load can be switched **and** dimmed from several locations by using DANLERS matching slave switches. Order codes: SSGS MK, SSGS CB and SSGS EU.

## Loading

DANLERS soft start grid dimmers can control 40-400W of:

- Incandescent lamps
- Mains halogen lamps (must include integral safety fuse)
- Most directly dimmable compact fluorescent or LED lamps
- Dimmable electronic transformers (max. 6 transformers).

They are also suitable for controlling 40-250W of:

- Dimmable, wire wound, toroidal transformers.

The maximum total load for grid plates is as follows:

Number of gangs	Maximum load wattage
• 2	630W
• 3 or 4	1000W
• 6, 8, 9 or 12	1000W per row
• 8 or 24	1200W per row

If the load is less than 40W resistive e.g. when dimming compact fluorescent the lamp may flicker. The load can be augmented using a load resistor connected at the mains lamp fitting or across the input to the low voltage transformer. Order as: RESLOADE.

## Grid wall box depths

The soft start grid dimmers need the following depth wall boxes:

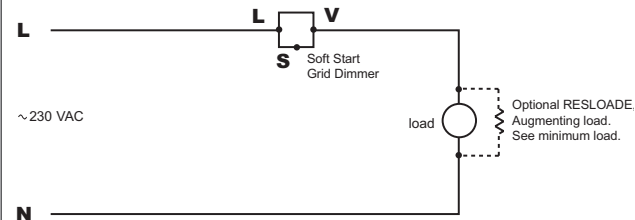
- DSSGD MK400W 35mm (minimum)
- DSSGD CB400W 40mm (minimum)
- DSSGD EU400W 35mm (minimum)

## Installation procedure

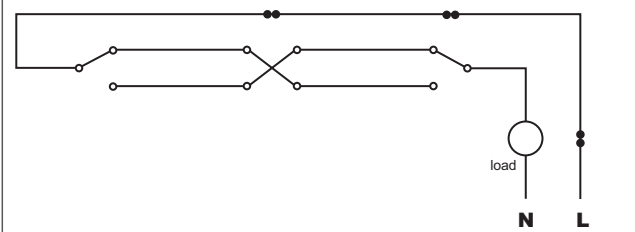
1. Please read these notes carefully before commencing work.  
In case of doubt please consult a qualified electrician.  
Make sure the power is isolated from the circuit.
2. The soft start grid dimmer should be connected as:
  - L Live
  - V Variable (dimmed) output
  - S Slave connection
3. Typical wiring diagrams are shown opposite.
4. Existing two-way strapper lines can usually be used to link the Live and Slave wires from the soft start dimmer to the slave switch(es).
5. The two terminals on **DANLERS Slave Switches** are labelled as:
  - Grid** Slave switches L, S
  - Plated** Slave switches Push button
 The terminal connections are interchangeable.
6. Once the wiring has been completed and verified, switch on the supply and test the operation.

## Typical wiring diagrams

### 1-way switching and dimming



### Example of a typical 2-way circuit



### Multi-way switching and dimming (lights can be switched and dimmed from any position)

