

# DANLERS

## Installation notes

### 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.

#### Lamp flickers:

- Minimum load not reached: Fit RESLOADE device.
- Electronic transformer unstable. Try fitting RESLOADE.
- Load incompatible with 'trailing edge dimming' s  
Please consider using DANLERS soft start grid dimmer.

#### Quiet dimmer fails after some time:

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

#### Quiet dimmer gets warm:

- This can occur with dimmers, especially 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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### Quiet Grid Dimmers

DQDGD MK400W

DQDGD CB400W

DQDGD EU400W

DANLERS 'trailing edge' quiet soft start dimmers are suitable for fitting into MK grid plus (MK), Crabtree grid (CB) and Eurodata plates (EU).

The 'trailing edge' technology helps limit the amount of electrical and audio noise generated by the dimmer and load and is the technology specified for certain low voltage transformers.

The soft start feature 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 'trailing edge' quiet soft start dimmers can control 40-400W of:

- Incandescent lamps
- Mains halogen lamps (must include integral safety fuse)
- Dimmable electronic transformers (max. 6 transformers).

DANLERS 'trailing edge' quiet soft start dimmers **can also control many LED lamps and fittings**. The minimum load can be as low as 4W with some lamps, however this can vary depending on lamp manufacturer.

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

## Minimum load

If the load is less than 40W resistive e.g. when dimming compact fluorescent or LED lamps, the lamp may flicker. The load can be augmented using a load resistor (DANLERS order code: RESLOADE) connected at the mains lamp fitting or across the input to the low voltage transformer.

## Grid wall box depths

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

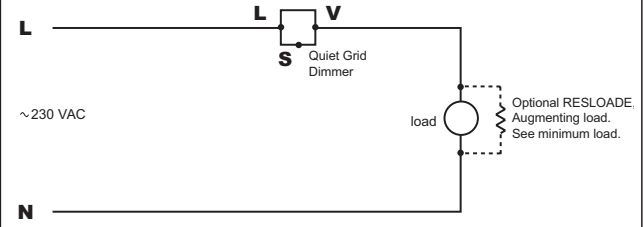
- DQDGD MK400W 35mm (minimum)
- DQDGD CB400W 40mm (minimum)
- DQDGD EU400W 35mm (minimum)

## Installation Procedure

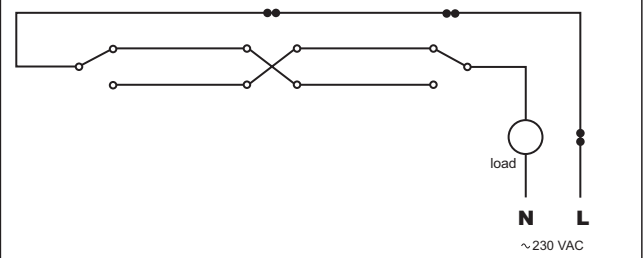
1. Please read these notes carefully before commencing work.  
In case of doubt please consult a qualified electrician.  
Make sure the power is isolated from the circuit.
2. The quiet grid dimmer should be connected as:  
L Live  
V Variable (dimmed) output  
S Slave connection
3. Typical wiring diagrams are shown opposite.
4. Existing two-way strapper lines can usually be used to link the Live and Slave wires from the quiet 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  
Note: 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)

