

## Troubleshooting

### Cannot get a neutral supply to the switch:

- Consider using DANLERS 2-wire grid time lag.

### Time lag switch “clicks” off but load stays on:

- Non-resistive load (contactor, emergency, CFL, LED or 2D lamp)  
Add CAPLOAD across the load as shown in wiring diagram.
- Fault developed due to an over-voltage spike.

### Load latched either on or off:

- Fault developed due to an over-voltage spike.

## Precautions and Warranty

This product conforms to BS EN 60669-2-1.

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.

## Products 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

### Grid time lag switches (3-wire versions)

GRTLA MK	GRTLA CB	GRTLA EU
GRTLA MK ILM	GRTLA CB ILM	GRTLA EU ILM

DANLERS grid time lag switches are suitable for fitting into the MK Grid Plus (MK), Crabtree grid (CB) and Eurodata plates (EU).

A short press will switch the load on and it will switch off automatically after the time lag period has expired. The time lag can be set between approximately 1 minute and 2 hours.

These devices need a neutral supply.

The button on the illuminated versions (ending ILM) is lit until the button is pressed, it comes back on when the time lag has elapsed.

The load can be switched on from other locations by wiring these devices in parallel.

## Loading

DANLERS grid time lag switches can switch up to 6amps (1500W) of:

- Fluorescent lamp, either high frequency or switch start
- Incandescent or mains halogen lamps (recommended with integral safety fuse)
- Electronic or wire wound transformers

They can also switch up to:

- 1 amp (250W) of Fans or Metal Halide lamps.

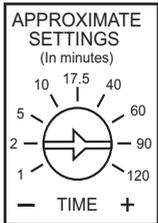
## Grid wall box depths

The grid time lag switches need the following depth wall boxes:

- GRTLA MK (ILM) 35mm (minimum)
- GRTLA CB (ILM) 40mm (minimum)
- GRTLA EU (ILM) 35mm (minimum)

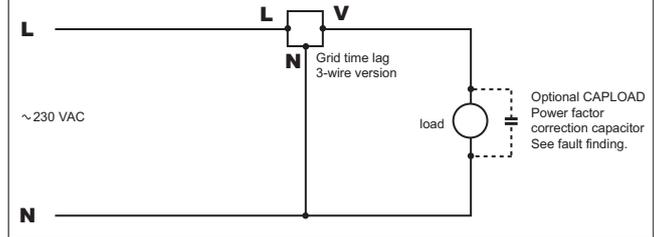
## Installation Procedure

- 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.
- The grid time lag switch (3-wire version) should be connected as:  
L Live  
N Neutral  
SL Switched Line output
- Existing two-way strapper lines can usually be used to wire these devices in parallel, as shown in the wiring diagrams opposite.
- The time lag is adjusted via a spindle located on the bottom edge of the device, as shown below.
- When wiring has been completed and verified, switch on supply and test operation.

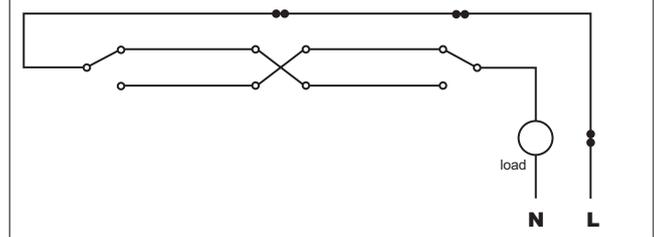


## Typical wiring diagrams

1-way grid time lag (3-wire version)



Example of a typical 2-way circuit



Multi-way grid time lag (3-wire version) in parallel

