

Leading Edge Grid Dimmer

WMGSD1L, Leading Edge Grid Dimmer Module 220V-240V, 50/60Hz

White moulded push grid dimmer module, for one or two way switching

Minimum load: 40W
Maximum load: 400W
Supply: 220V-240VAC 50/60Hz

HAGERS's 'leading edge' soft start dimmers electronically ramp 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 compatible slave switches.

WMGSD1L 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 or LED lamps, 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.

WMGSD1L require 35mm (minimum) wall box depth:

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).

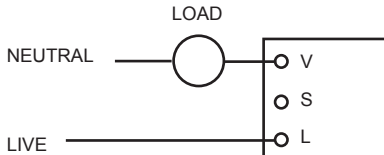
5. Once the wiring has been completed and verified, switch on the supply and test the operation.

This dimmer is manufactured in the U.K. and is designed to conform with the standards IEC (EN) 60669-2-1 (Electronic switches). Minimum and maximum loads are quoted on the back of the control.



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ONE WAY DIMMING CIRCUIT



In a one way dimming circuit, use L and V only.

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 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 resistive load.
- Electronic transformer unstable. Try fitting a resistive load.
- Load incompatible with 'leading edge dimming'
Please consider using HAGER trailing edge dimmer 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 HAGER trailing edge dimmer dimmer.

Dimmer gets warm:

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

This dimmer is manufactured in the U.K. and is designed to conform with the standards IEC 669-2-1 and BS EN 55015:1993.

Minimum and maximum loads are quoted on the back of the dimmer.

For UK customers only:

National Technical Help Line - 0870 6076677

Hager Limited, Hortonwood 50, Telford, Shropshire, TF1 7FT

E-mail:sales@hager.co.uk Web:www.hager.co.uk

