


DMAL120F

Active Load



features

- **Single channel** - 20A feed through device
- **Reduce LED / CFL flickering** - Provide an active load for leading edge TRIAC / SCR dimmers to make compatible for LED & CFL fittings
- **Easy to use for retrofit** – Used as an inline device or feed through configuration. The DMAL120F is to be fitted between the leading edge dimming channel system and lighting load.
- **No need to physically modify leading edge dimmer** – As the DMAL120F is an active load the leading edge dimmer channel once installed will now correctly dim the lighting group. The leading edge dimmer might need to have its dimming curve up dated to suit the LED lamp type. If the dimmer is a current Philips Dynalite device then this can be done through the Envision commissioning software if required.

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|  | WARNING | To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not energise unless the front cover is in place. Installation, programming and maintenance must be carried out by qualified personnel. |
| | ISOLATE FROM MAINS SUPPLY BEFORE REMOVING THIS COVER | |
| | NO USER SERVICEABLE PARTS INSIDE SERVICE BY QUALIFIED PERSONNEL ONLY | |
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Read Instructions – We recommend that you read this Instruction Manual prior to commencement of installation.

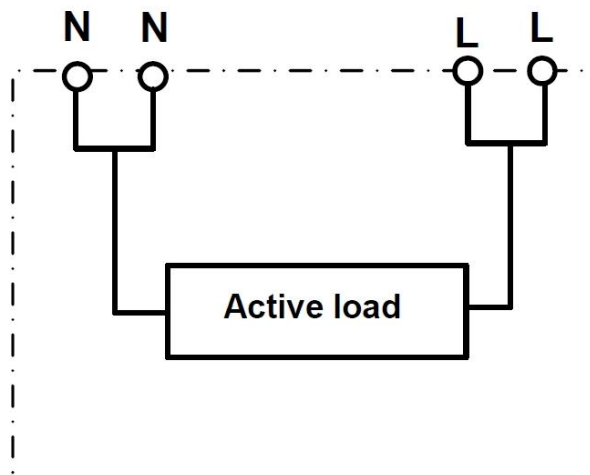
Supply – This device should only be operated from the type of supply specified on the front cover. The feed through current should not exceed the specified capacity of 20A.

Mounting Location – Install in a dry, well-ventilated location.

NOTE – This device can only reduce LED/ CFL lamp flickering produced from leading edge dimming. This device cannot prevent lamp flickering caused by unstable mains supply, or correct the dimming curve. This device is not intended for use on Trailing edge dimmer types.

electrical diagram

**Active Load:
110V - 240V 50/60Hz
TRIAC / SCR LEADING EDGE DIMMER
Max 20A**



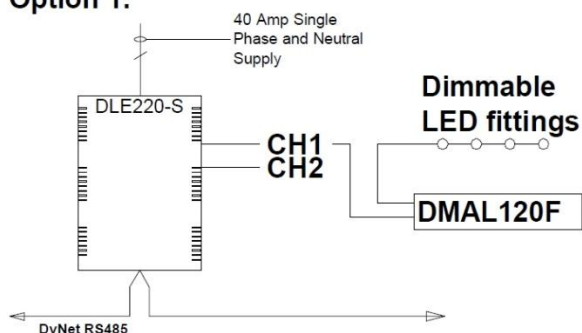
installation steps

There are two options for installing the DMAL120F, Inline and feed-through.

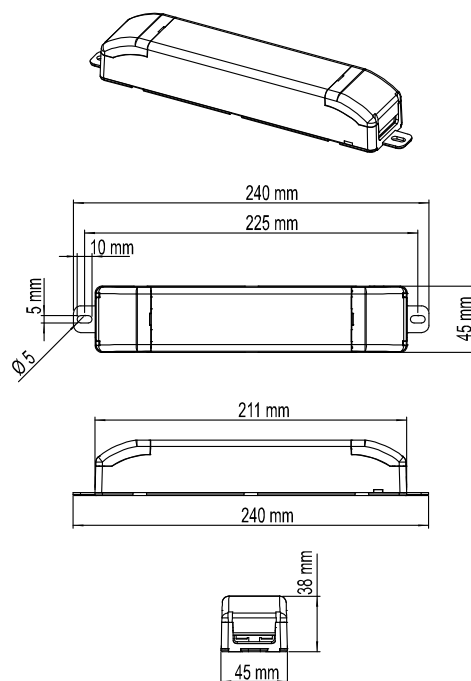
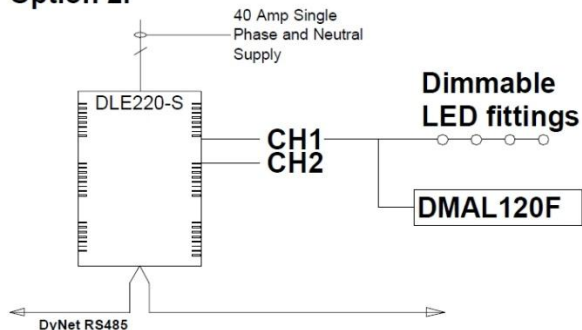
1. Completely power down the leading edge dimmer from the supply isolator that requires the active load to be fitted.
2. Find a suitable location for the DMAL120F that is accessible. Screw the unit into place using the mounting tabs. The best location would be next to the effected dimmer unit or near the effected lighting groups.
 - For option one. Feed-through.
 - i. Break current connection of the output channel that is inducing the lamp flicker.
 - ii. Connect the lighting group circuit to the DMAL120F unit.
 - iii. Connect cables between the dimmer and the DMAL120F unit. Re check all cable terminations.
 - iv. Re energise dimmer unit.
 - For option two. In-line.
 - i. Connect the DMAL120F in parallel across the active and neutral lines. Ensure that the connection is correctly insulated and safe
 - ii. Re check all cable termination and re energise the dimmer.

IMPORTANT: IF GROUNDING (EARTH) CONDUCTOR IS PRESENT, ENSURE ITS CONTINUITY.
USE APPROVED TERMINAL BLOCK TO JOIN EARTH ENDS.

Option 1:



Option 2:



product specifications

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|------------------------------|---|
| Input: | 110 - 240V 50/60Hz single phase Leading edge TRIAC / SCR at 20A MAX feed though |
| Active Load: | 5W max. |
| Connection Terminals: | 2 x Line and Neutral. Up to 1 x 2.5mm ² cable per terminal |
| Compliance: | CE, C-Tick |
| Ambient Temperature: | 0-50°C max. |
| Humidity: | 0-90% non-condensing. |
| Construction: | Poly Carbonate |
| Dimensions: | L 240mm x W 45mm x D 38mm |
| Weight: | 0.16Kg |