



ROTARY DIMMER CONTROL



PDL

Cat 824M Trailing Edge Dimmer

450W

Installation and consumer instructions for Cat 824M Dimmer Control Module

For use in modena 800 Series™ Strato 800 Series™ Product Ranges

OPERATION

The 800 series dimmer provides smooth dimming control of incandescent lamps, from full brightness down to soft candle glow. The new easy grip knob can be adjusted simply by turning to set the desired level of illumination. The new electronic design of the PDL™ 824M eliminates dimmer buzzing and humming even at minimum light settings.

SPECIFICATIONS at 25°C

Supply voltage	230-240 Volts a.c.	Complies with	AS/NZS3100; AS3133; and AS/NZS CISPR15:2002
Frequency:	50Hz	EMC compliant:	☑
Maximum load:	450W	Approval no:	V41
Minimum load:	25W	Control:	Electronic Trailing Edge
Protection:	Short circuit (over current) protection		
Dims most brands of low voltage halogen lighting supplied by electronic transformers.			
WARNING: Do not use with wire wound transformers.			

Table 1

Load Type:		Max Load	Comments
Incandescent globes.	✓	450W	
240Volt halogen lighting.	✓	450W	
Resistive loads.	✓	450W	
Low voltage halogen lighting supplied by electronic transformers.	✓	450W	Check transformer specifications to ensure dimming is possible with brand selected
Low voltage halogen lighting supplied by wire wound transformers.	✗	N/A	Not suitable. Use PDL™ cat 834M
Products using ballast or inductors of any type.	✗	N/A	Includes fluorescent lighting
Motor speed control.	✗	N/A	

Plate mounting.

Due to the additional heat dissipation created by multiple units fitted to one plate, the total loading of each dimmer must be de-rated as per table 2. A maximum of 3 dimmer modules can be fitted to one PDL™ 800 series grid. A flush box is recommended to house the dimmer(s). All loose debris should be cleared from the wall cavity for maximum ventilation.

Table 2.

No of Dimmers	Max Load per dimmer.
1	450W
2	350W
3	250W

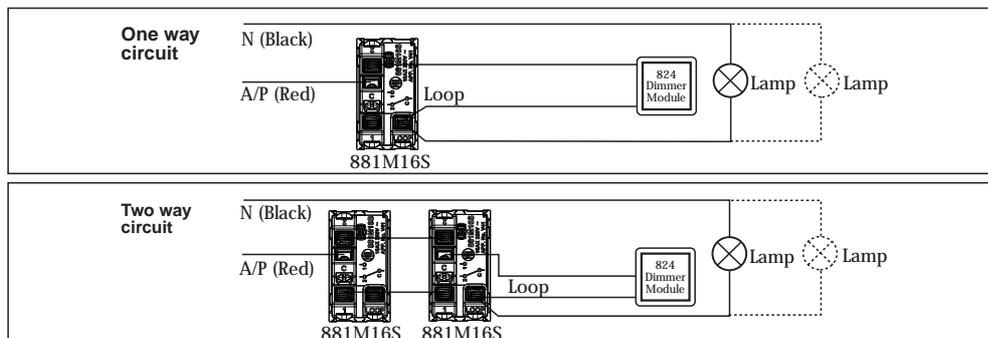
Double Grid Mounting

When mounting dimmer modules into a double grid (800G2V or 800G2H), the de-rated maximum loads as per table 2 still apply. No more than three dimmer modules should be fitted.

WIRING/INSTALLATION INSTRUCTIONS

Mounting:

See Modena 800 Series™ general fitting instruction sheet



Note:

- 1 Prior to installation ensure the maximum rated load and load type are not likely to be exceeded.
- 2 The dimmer operates in series between phase and load. **Do not** connect supply P&N across dimmer as this will result in damage and void the product warranty.
- 3 Not suitable for inductive loads such as fluorescent lamp loads or appliances with electric motors.

INSTALLATION ONTO PLATE

When installing the dimmer into the grid ensure that the vents on the dimmer case are facing upwards, before clipping into position (see figure 1).

Figure 1

Note:

After installation please ensure a copy of the instructions remain at the installation site.

SETTING MINIMUM BRIGHTNESS

It is important to set the minimum brightness before fitting the dimmer knob. We recommend for safety reasons that the minimum brightness is set at a visible level. When the dimmer unit is wired up as per the installation instructions and mounted into a grid switch on the power.

- 1 Turn the splined shaft carefully by hand until the desired minimum brightness is obtained.
- 2 The dimmer knob should then be fitted, ensuring that the thin end of the gradient scale is at the bottom lined up with the vertical (see figure 2).

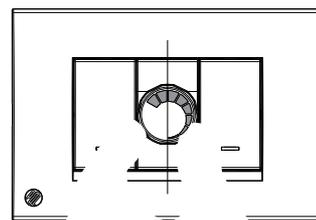


Figure 2

TROUBLESHOOTING GUIDE

Symptom	Cause	Solution
Dimmer hot	Incorrect load type, most possibly excessive load.	Check wiring and load. Refer to specifications table 1.
Lights go off.	<ol style="list-style-type: none"> Short circuit faulty bulb filament. Blown light globes Lighting Circuit protection operated 	Remove fault, possibly caused by Replace light globes. Check fuse or circuit breaker and lighting circuit for overloading.
Dimmer not operating	Incorrect wiring	Check circuit and correct wiring.
Full dimming range not available	Incorrect positioning of knob	Remove knob and re-check instructions
Flickering or interference on circuit or surrounding circuits	Unit subjected to over voltage spikes	Should be checked if problems persists

IMPORTANT

Ensure all work is undertaken by a Registered Electrical trades person only.

WARRANTY

This product is guaranteed for a period of twelve months from the date of purchase against defects in workmanship and materials. Defects will be rectified by replacement of the product purchased except where, at our discretion, minor adjustments can be undertaken.

The guarantee becomes invalid if in our opinion the product has been misused, abused, incorrectly installed, tampered with, connected to a power supply not corresponding with specifications, or subject to power surges. The guarantee does not include any labour or other associated expenses that may be involved in removal or installation of the product.

To obtain a replacement under this guarantee, return the goods (prepaid) to the place of purchase or direct to the Australian/NZ Distributor. Proof of purchase must be supplied.

This product does not contain any user serviceable parts. Spare parts and repair facilities are not available.

This guarantee is in addition to and does not affect your rights under applicable law except where that law expressly provides otherwise. The consumer Guarantees Act 1993 (NZ) will not apply if this product is purchased for the purpose of business.



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