

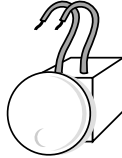
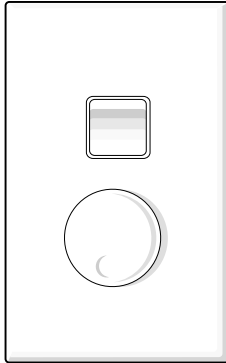


# ROTARY DIMMER CONTROL



## PDL

## Cat 624T and 624TM Trailing Edge Dimmer



Installation and consumer instructions for Cat 624TM Dimmer Control Module and Cat 624T Dimmer Control Switch.

### OPERATION

The 600 series dimmer provides smooth dimming control of incandescent lamps, from full brightness down to soft candle glow. The low profile knob can be adjusted by fingertip to set the desired level of illumination. The new electronic design of the PDL 624TM eliminates dimmer buzzing and humming even at minimum light settings, as well as incorporating the use of a soft start ramp on feature.

### 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 (1.8A)	Approval no:	V41
Minimum load:	20W (0.1A)	Control:	Electronic Trailing Edge
Protection:	Thermal overload compensation. Automatically reduces lamp brightness if overloaded. Overload should be avoided.		
Dims most brands of low voltage halogen lighting supplied by electronic transformers.			
<b>WARNING: Do not use with wire wound transformers.</b>			

Table 1

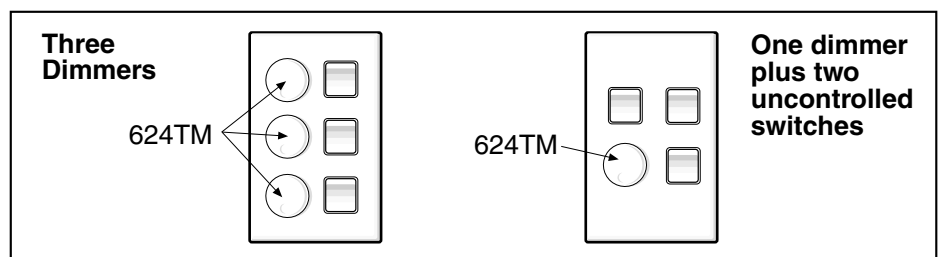
Load Type:		Max Load	Comments
Incandescent globes.	✓	450W	
240Volt halogen lighting.	✓	450W	
Resistive loads.	✓	450W	
Low voltage halogen lighting supplied by electronic transformers.	✓	450W	Check transformer specifications to ensure dimming is possible with brand selected
Low voltage halogen lighting supplied by wire wound transformers.	✗	N/A	Not suitable. Use PDL cat 634L or 634LM
Products using ballast or inductors of any type.	✗	N/A	Includes fluorescent lighting
Motor speed control.	✗	N/A	Not suitable. Use PDL cat 625F or 625C3

### 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 (624TM) can be fitted to one PDL 600 series plate.

Table 2.

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



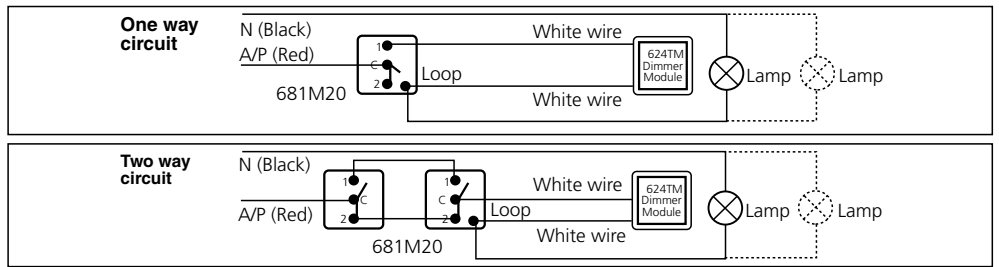
### Panel mounting.

Where possible do not install dimmers directly above each other, the preferred option is mount side by side. For more information contact Customer Services.

# WIRING/INSTALLATION INSTRUCTIONS

## Mounting:

Flush mounting use PDL cat.144 wiring box, cat 145V, 148V or 146V mounting bracket. Surface mounting use PDL cat.89 or 537 mounting block. (one dimmer per mounting block).  
Mounting centres: 84mm



## 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 aperture of the switch plate, ensure that the text on both the dimmer case and retainer plate "TOP" and "FRONT" are facing upwards, before clipping into position (see figure1).

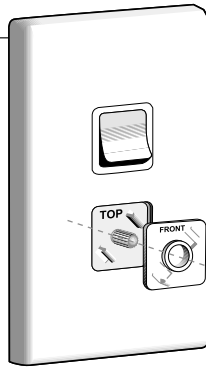


Figure 1

## 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 the surface plate, 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 dimple is facing downwards and lined up with the vertical (see figure 2).

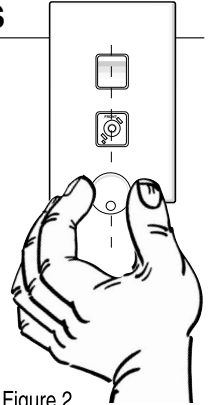


Figure 2

## TROUBLESHOOTING GUIDE

Symptom	Possible Cause	Solution
Dimmer hot	Incorrect load type, most possibly excessive load.	Check wiring and load. Refer to specifications table 1.
Lights go off	a Blown light globes b Lighting Circuit protection operated	Replace light globes. Check fuse or circuit breaker and lighting circuit for overloading.
Lights go dim	Load exceeds 450W	Reduce load to 450W or less
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 become 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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