PMD1G1-10v, PMD2G1-10v, PMD3G1-10v, PMD4G1-10v Instructions

Push On / Off Rotary Dimmer for 1-10v Dimmable Ballasts

Important User Information

Please read these instructions carefully before installation and leave a copy for the user / maintenance engineer for future reference

Do not mix lamp types and wattages on the same lighting circuit.

Always wait for lamps to reach full brightness before setting the dimming level.

PRODUCT FEATURES

Push on, push off, rotary dimming control switch

Suitable for use with E-Matic Dimmable LED Driver and 1 - 10V Dimmable Ballasts

Module case ultrasonically sealed to reduce dimmer buzzing

Smooth dimming operation from 0 - 100%

One or two way switching

Applications

This dimmer switch is suitable for the following:

E-Matic dimmable Ballasts requiring a 1 - 10V control input

Maximum terminal Cable Size: 0.75-1.5 mm²

This Dimmer Switch Is Not Suitable for

- Mains Voltage GLS or Halogen lamps
- Electronic & Wire Wound low Voltage lighting transformers
- Fans
- Any electronic control gear that does not require a 1 - 10V control input.

INSTALLATION

Read These Instructions Carefully. If In Any Doubt, Consult A Qualified Electrician

- Always switch off mains supply before installation or maintenance works.
- Install the mounting box in the required position.
- A cable is required between the switch and the control gear (LED Driver or Ballast). Connect two wires from the 1-10V Dimmer terminal of the control gear to the + and - terminals of the dimmer switch. Connect a permanent live feed to the common of the dimmer switch and connect from L1 to the Live input of the control gear, a neutral is also required at the dimmable ballast. See diagram overleaf.
- To connect the dimmer switch for 1 or 2-way switching, please refer to the diagram overleaf.
- When removing the insulation of the cabling ensure that no bare conductors are exposed from the terminals.
- Dimmer switches with a metal front plate MUST be earthed using the Earth terminal or Earth fly lead to the front plate.
- After connecting the wiring push the dimmer switch back towards the wall box ensuring the that the wiring is not trapped between the back of the dimmer module and the mounting box or the front plate and the mounting box, tighten the plate fixing screws provided. Do not over-tighten the fixing screws or you may distort or break the front plate.
- When installation is complete switch on the mains supply and push the dimmer knob to operate.
- Adjust the rotary knob until the desired light level is reached.
- Please note - DO NOT perform insulation resistance tests on a lighting circuit with a dimmer switch connected. An insulation resistance test may damage the electronic components in the dimmer beyond repair.
- A slight buzzing noise may be heard from the dimmer switch in operation, this is perfectly normal.

A Maximum Number of 8 (1-10v) drivers can be connected to the dimmer

WIRING CIRCUITS

This dimmer module is suitable for 1 or 2 way lighting circuits and has 3 screw terminal connections L1, L2 and C (common).

NOTE: When using -2way switching lamps could be switched off while dimmed. Compact fluorescent lamps need to have full mains voltage in order to switch on.

If the lamps do not illuminate turn the dimmer switch full on, the lamps will then illuminate. Wait for full brightness before dimming the lamps.

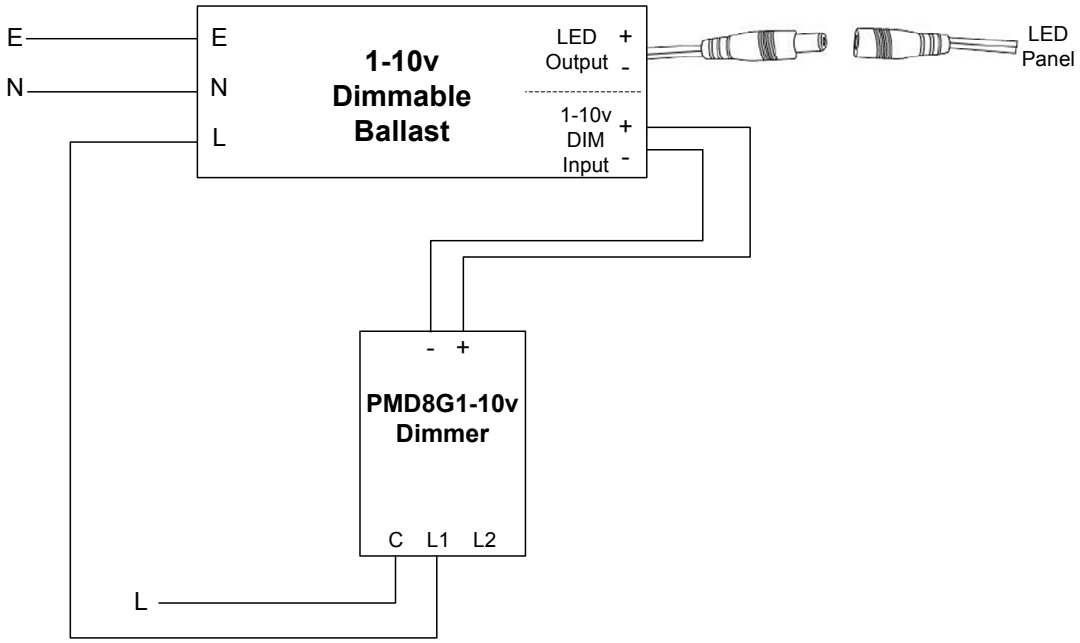
1-Way Switching

Each lighting circuit is controlled by one switch.

Connect the incoming Live to the terminal marked C.

Connect either L1 or L2 to the live feed to the lighting circuit.

For 1 way switching either the L1 or L2 terminal connection is not used



2-Way Switching

2-Way lighting circuits have two switches controlling the same lights from two different locations.

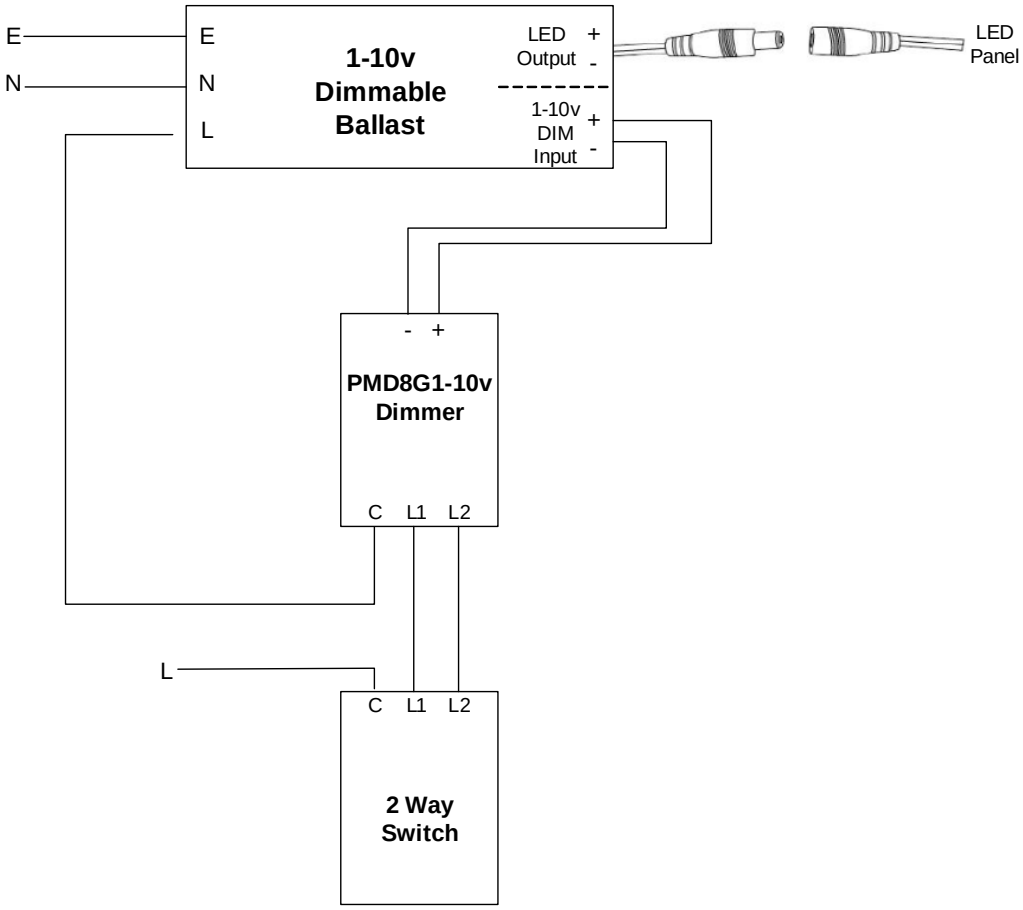
This arrangement is commonly used at the top and bottom of staircases or at the entry and exit doors to a room.

Only one standard plate switch may be replaced with a dimmer switch for 2-way switching applications or the lights will flicker on and off.

See Figure 2 for a typical 2-way circuit.

Remove one of the existing switches taking note of the wiring of the switch and the terminal markings.

The wires connected to the COMMON terminal of the plate switch should be connected to the C terminal of the dimmer switch. The wires connected to the other two terminals of the plate switch should be connected either way round to terminals L1 & L2 of the dimmer switch.



Due to our policy of continuous improvement we reserve the right to change specification without prior notice.

Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by E-Matic for any misinterpretation of these instructions.

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