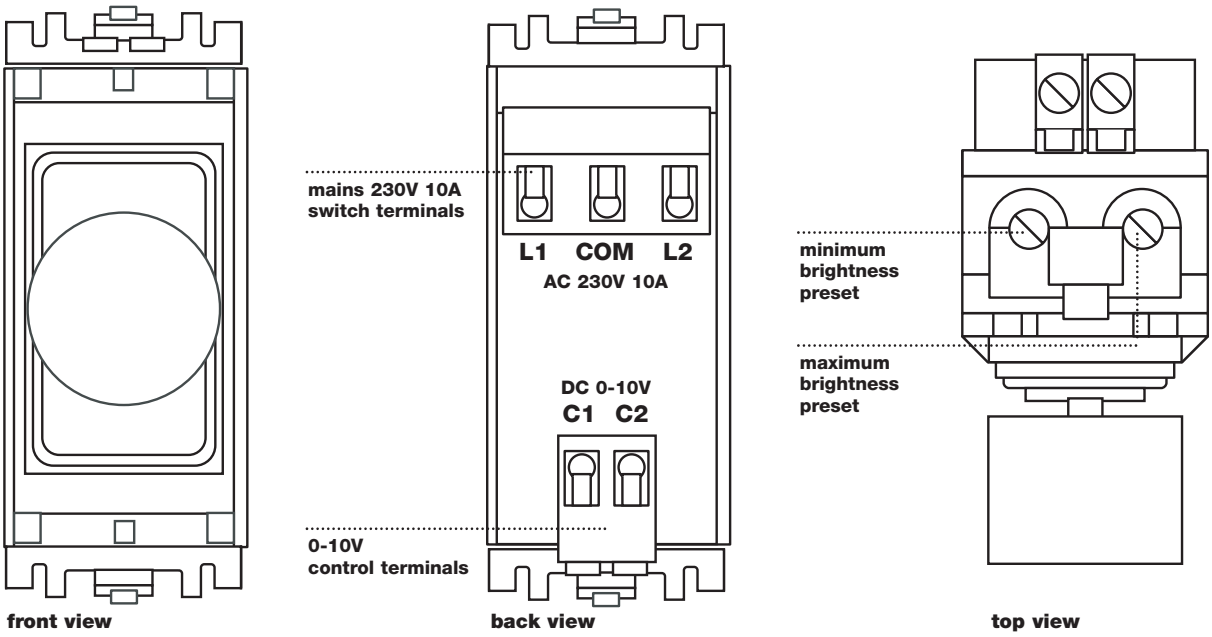
# Rotary Push Switch Modules RPS Series

Multiload 0–10V Rotary Push-Switch (RPS) Series
For controlling up to 20 looped ballasts or other 1-10V drive units




**Note:** Drawing is of a two-wire version for use with MK GridPlus plate systems, ie. RPS1–MKGP or RPS2–MKGP

## Features

Terminals C1 (0V) C2 (+ve 0-10V): Low voltage 2-wire 0-10V analogue control by rotation of the control knob. This output controls the brightness of fluorescent lamps by connection to the DC 0-10 V control terminal of ballasts (up to 20).

The module can be wired to a large number of ballasts or other 0-10V controlled drive units without an effect on brightness if some drive units are switched ON/OFF by the mains.

Easy access minimum and maximum brightness screwdriver presets set the dimming range covered by the rotary control. Set the minimum preset first: setting the maximum will not affect minimum setting. Brightness levels are not affected by temperature changes around the module.

In addition push on/push off action of the control knob provides ON/OFF switching of mains power (2-core mains cable + Earth if required) or changeover switching (3-core mains cable + Earth if required) for 2 way mains switching of fluorescent lamps.

The number of drives that can be switched is determined by the current draw of the drives – up to a total maximum of 10A.

## Warning

1. The device must be installed and commissioned by an authorised electrician.
2. The device may be used for permanent interior installations in dry locations with suitable surface plates fitted.
3. High standard isolation of low voltage (0-10V) wiring and mains wiring by use of a suitable fixing and isolation / separation.
4. Protective Earth (PE) must be connected for metal back plates, and when standards dictate.

## Article Number

Three versions of RPS modules are available each with a different analogue control characteristic:

**RPS1**
2-wire control of **one** ballast or group of drive unit(s) where the sink current flowing is insufficient to operate RPS2.

**RPS2**
2-wire control of up to **2-20** looped ballasts or other 0-10V drive units

**RPS3**
3-wire potentiometer control of one or more Multiload VoltMaster Intelligent Transformer(s) for low voltage lighting or other drive units with non-standard control inputs (use VoltMaster terminals C1, C2, C3).

## Options

The Multiload rotary control modules are also produced for use with the following plate systems:

**1 MK GridPlus** – size: one MK GridPlus module, depth 26mm.
RPS1-MKGP, RPS2-MKGP, RPS3-MKGP

**2 Wandsworth Series 2 or 3** grid system.
RPS1-WAND, RPS2-WAND, RPS3-WAND

**3 Forbes and Lomax plates.**

Please specify Plate System and Plate Finish when ordering.

## Specification

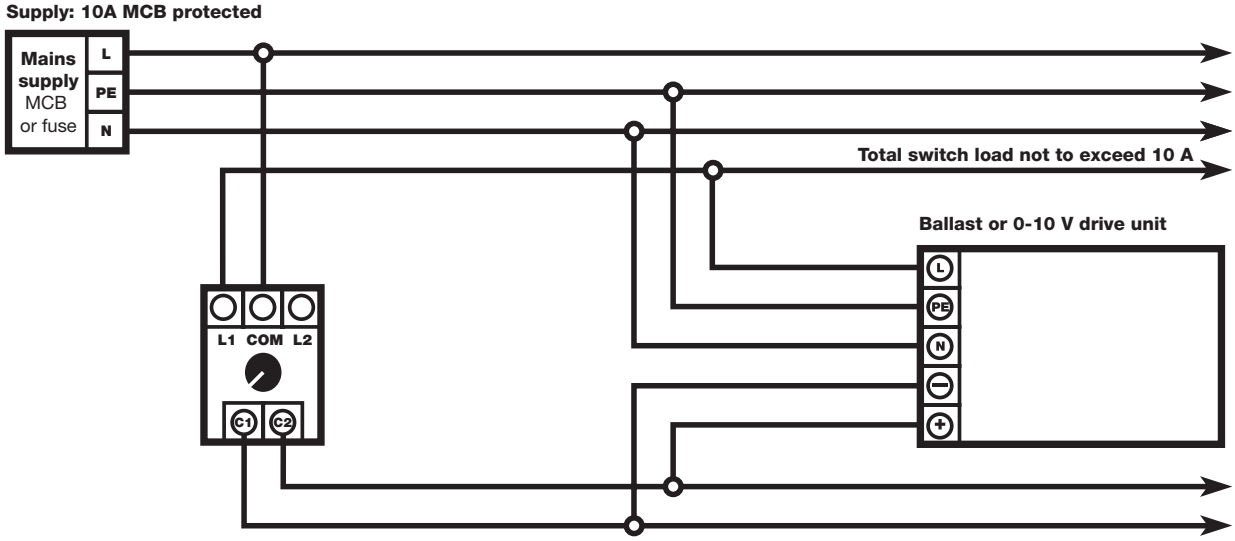
**Mains Voltage:** AC 230V +/-10% (protect by 10A MCB)

**Mains Output**: Switched mains output – 3-wire terminal for changeover switching

**Signal Output**: 0-10V DC (sink current capability only)

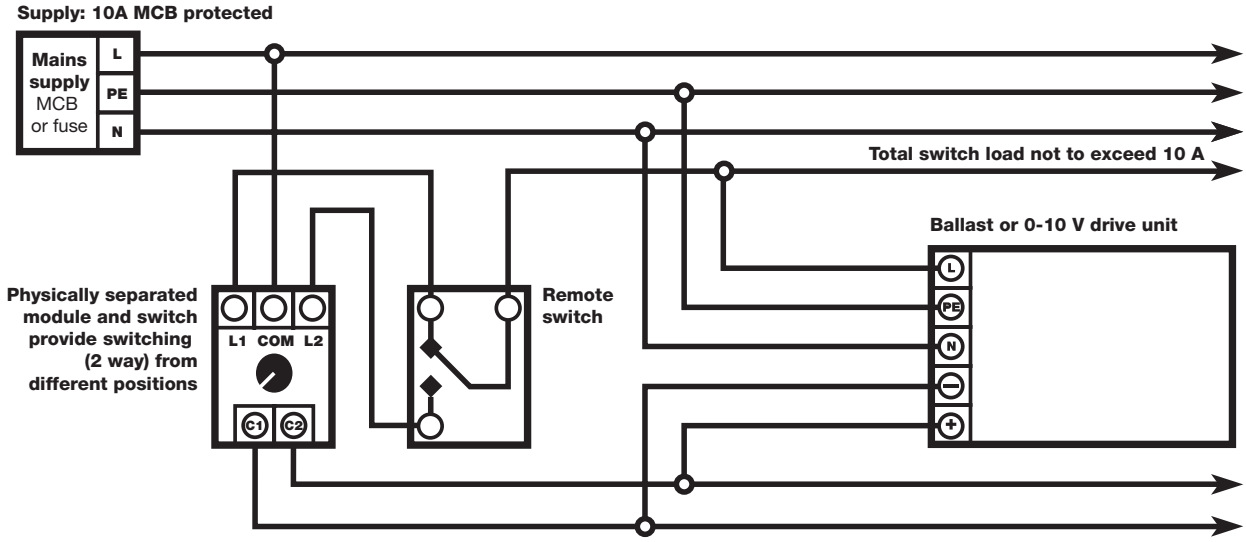
## **Connections:** One-way switching

**If higher current mains switching is required, use switched output to activate a suitably rated contactor**




## **Connections:** Two-way switching (using changeover switch)

**Two-way switching expands to multi-way switching by connection of intermediate switches on remote plates**




## **Connections:** Individual switching

**Ballasts or drive units on same 0-10V signal can be individually mains switched (without affecting brightness)**