



# Rotary Push-control Wall Dimmer RPC series

0-10V dimming and switching rotary module  
to fit into plates and grid systems

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## Product order codes

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### **RPC1**

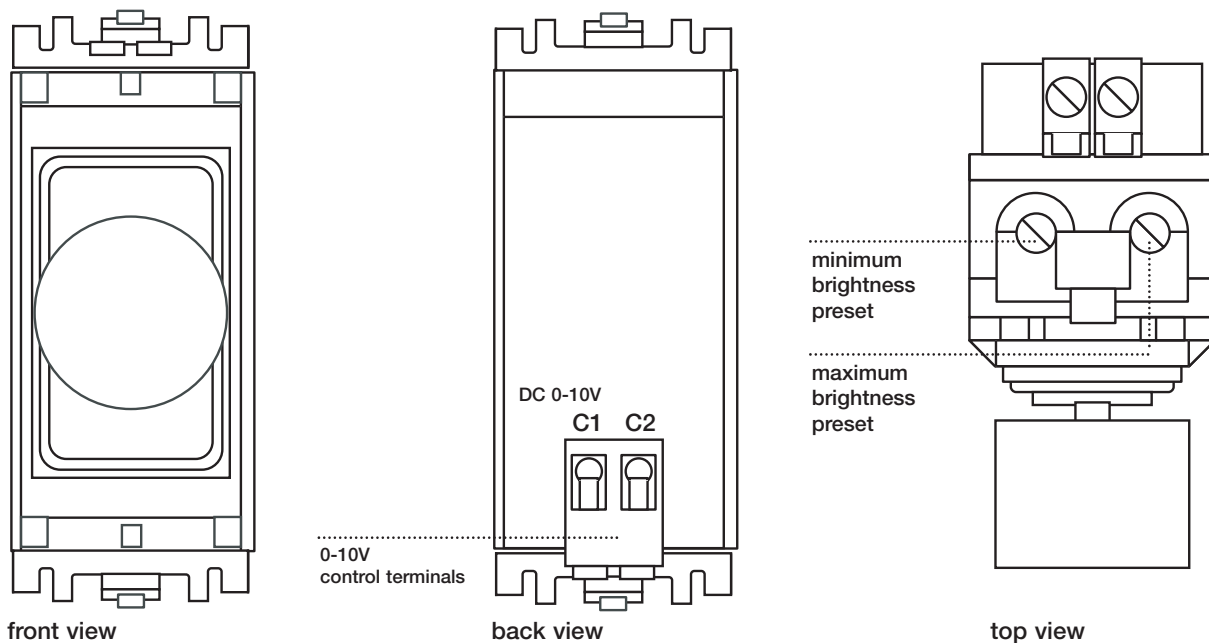
2-wire control of a single drive unit  
or a Multiload dimming and switching  
product

### **RPC2**

2-wire control of between 2-20 drives  
or Multiload dimming and switching  
products



## Technical specification and installation



Modules can be supplied to fit wall plates and grid systems from UK wall-plate manufacturers. Contact Multiload on +44 (0)20 7794 9152 to ensure compatibility with specified plate type and finish. Shown above is module supplied for fitting into MKGridPlus.

### Functions

Rotary Push-control Wall Dimmers RPC provide 2-wire control, dimming and switching, of control gear accepting 0-10V and 1-10V signals.

This control gear includes Multiload products such as:

- **Lighting Contactors LC series**  
mains switching and boosted 0-10V and 1-10V dimming
- **Trailing-edge Dimmer ADT400**  
with internal relay for mains switching
- **Leading-edge Dimmer AD2500**  
with internal relay for mains switching
- **LED drivers** dimmable to zero such as LEDrose LDR100
- **Other manufacturers** control gear accepting 0-10V or 1-10V signals that source 100mA at 10V at the signal input with RPC

### Technical specification

#### RPC1 for a single drive only

#### RPC2 for 2 to 20 drives

This module can be wired to a number of LED drivers or fluorescent ballasts or other 0-10V and 1-10V controlled drive units. The control signal is stabilised so that adding or removing a drive unit will not materially affect the brightness.

**Signal output:** 0-10V DC (sink current capability only, allowing use with standard drives, such as LED drivers and fluorescent ballasts)

#### Dimensions:

MK module L:50mm W:25mm D:30mm  
Knob Diam: 20mm H:13mm  
Fixing: Bush M10  
Shaft:6mm

### Installation and set up procedure

Installation should be carried out by suitably qualified personnel in accordance with good electrical practice and the appropriate national wiring regulations.

**Switch off mains electrical supply before commencing installation.**

The device may be used for interior installations in dry locations with suitable surface plates fitted.

#### Terminals C1 (-ve 0V) C2 (+ve 0-10V)

Low voltage 2-wire 0-10V analogue control by rotation of the control knob.

#### Setting minimum and maximum brightness

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.

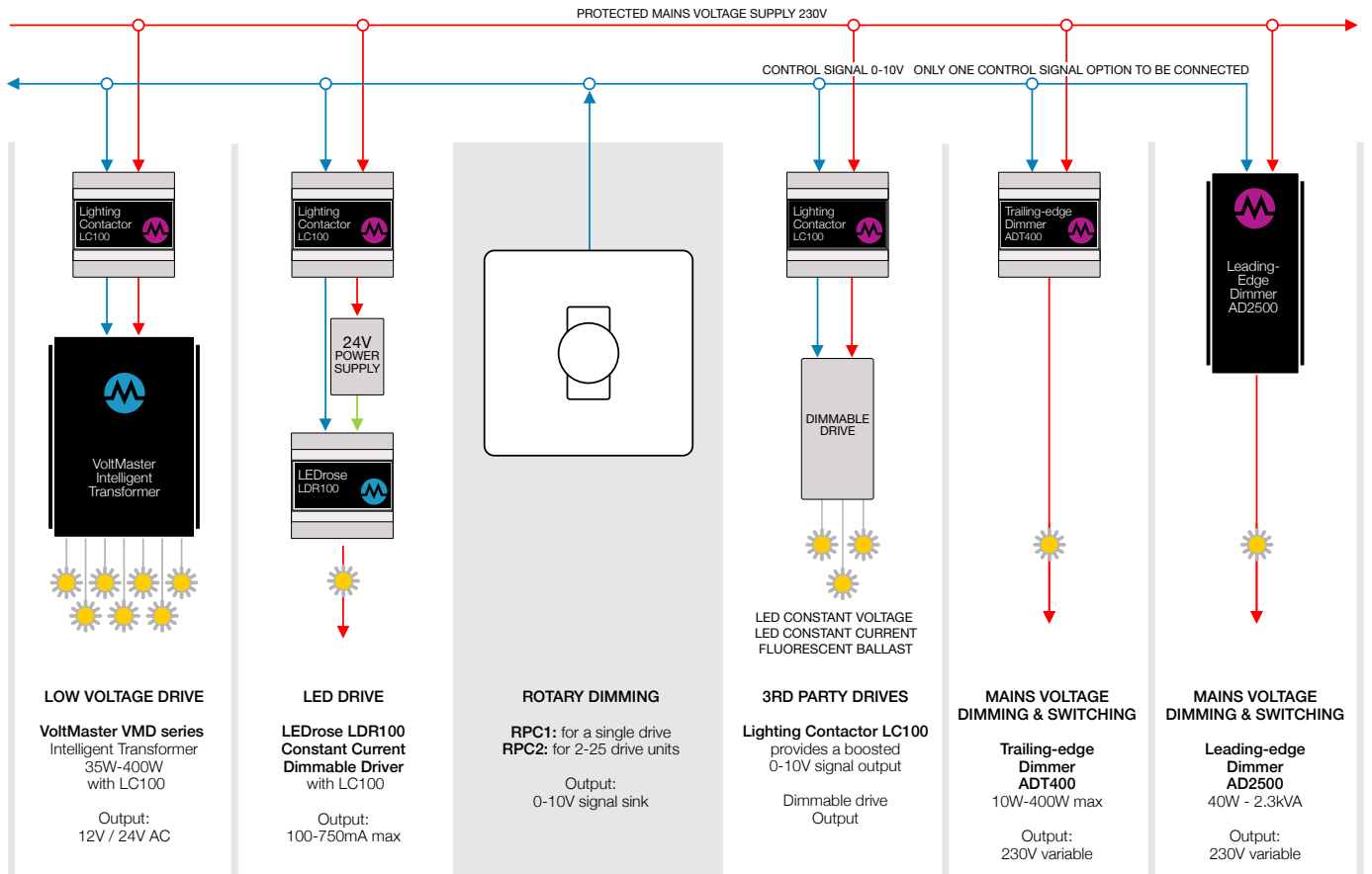
### Environmental specification

**Temperature range:** -10°C – +50°C

**Maximum humidity:** Less than 95% non-condensing

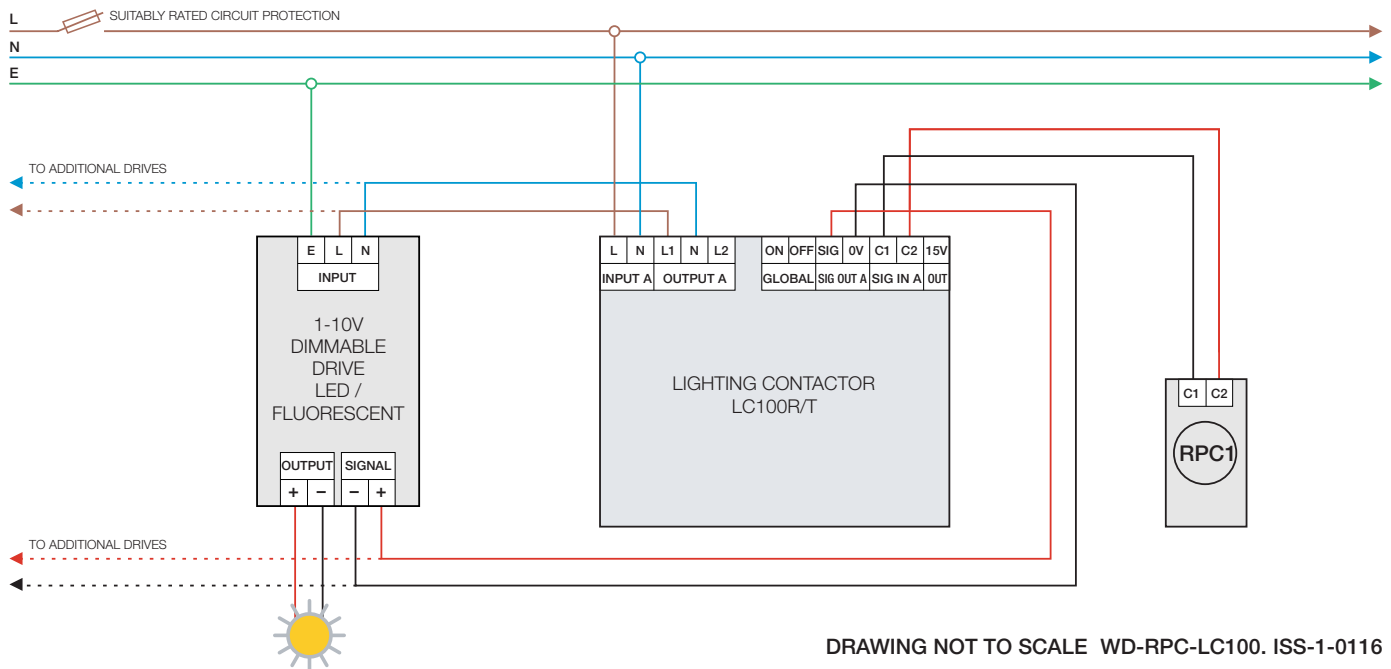


# Rotary Push-control Wall Dimmer RPC related product options



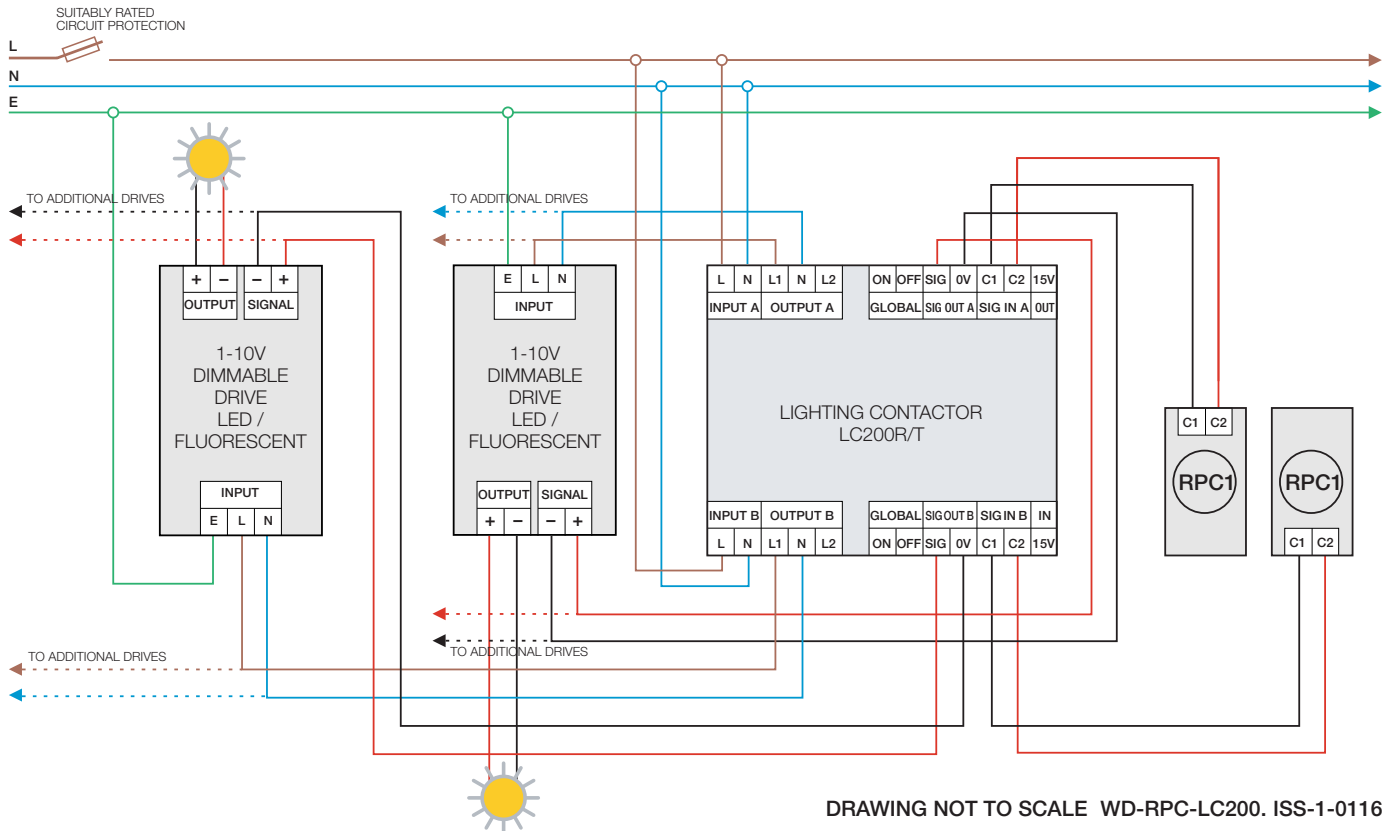
## RPC1 wired to Lighting Contactor LC100R/T

Both dimming and mains switching activated from Rotary Push-control Wall Dimmer using only 2-core signal cable

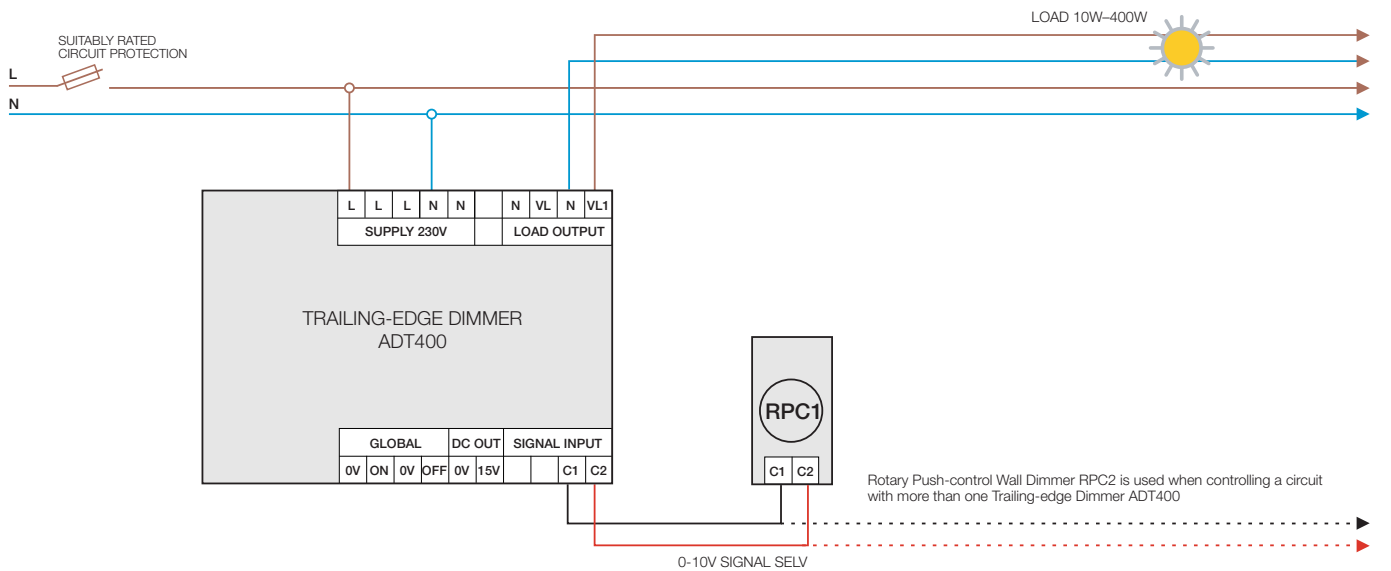




## Two RPC1s wired to Lighting Contactor LC200R/T

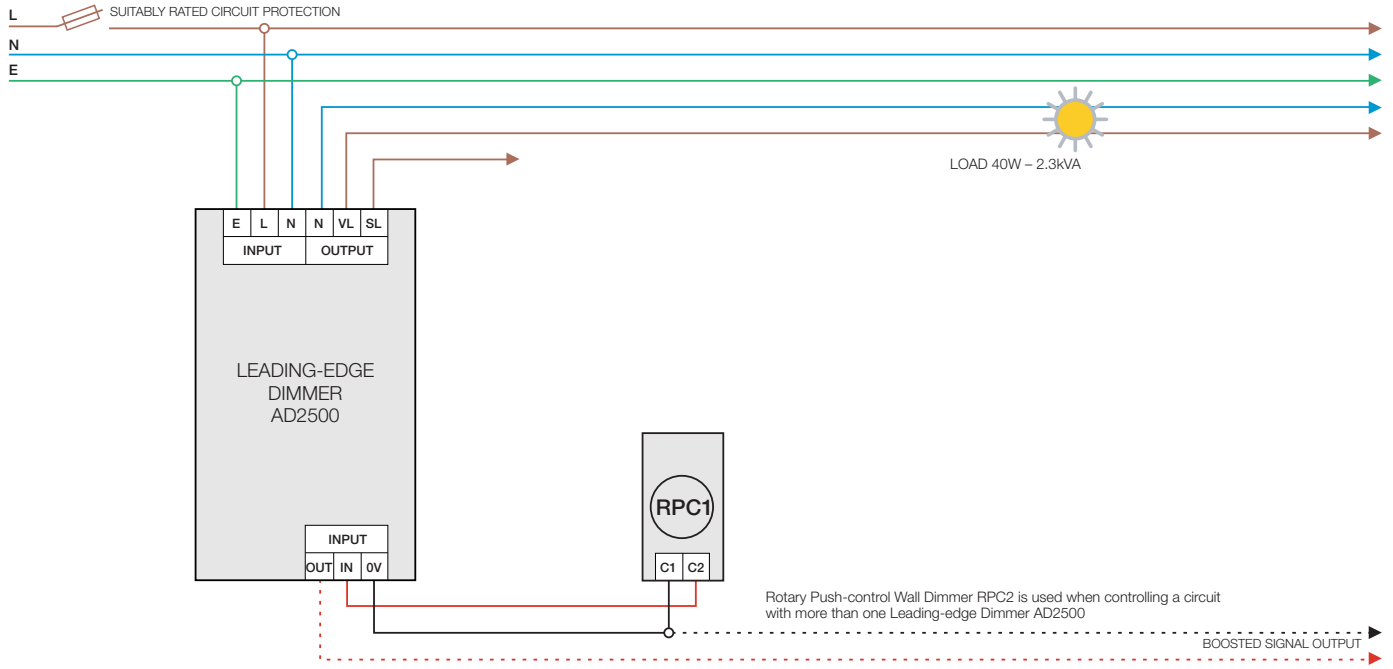


## RPC wired to Trailing-edge Dimmer ADT400



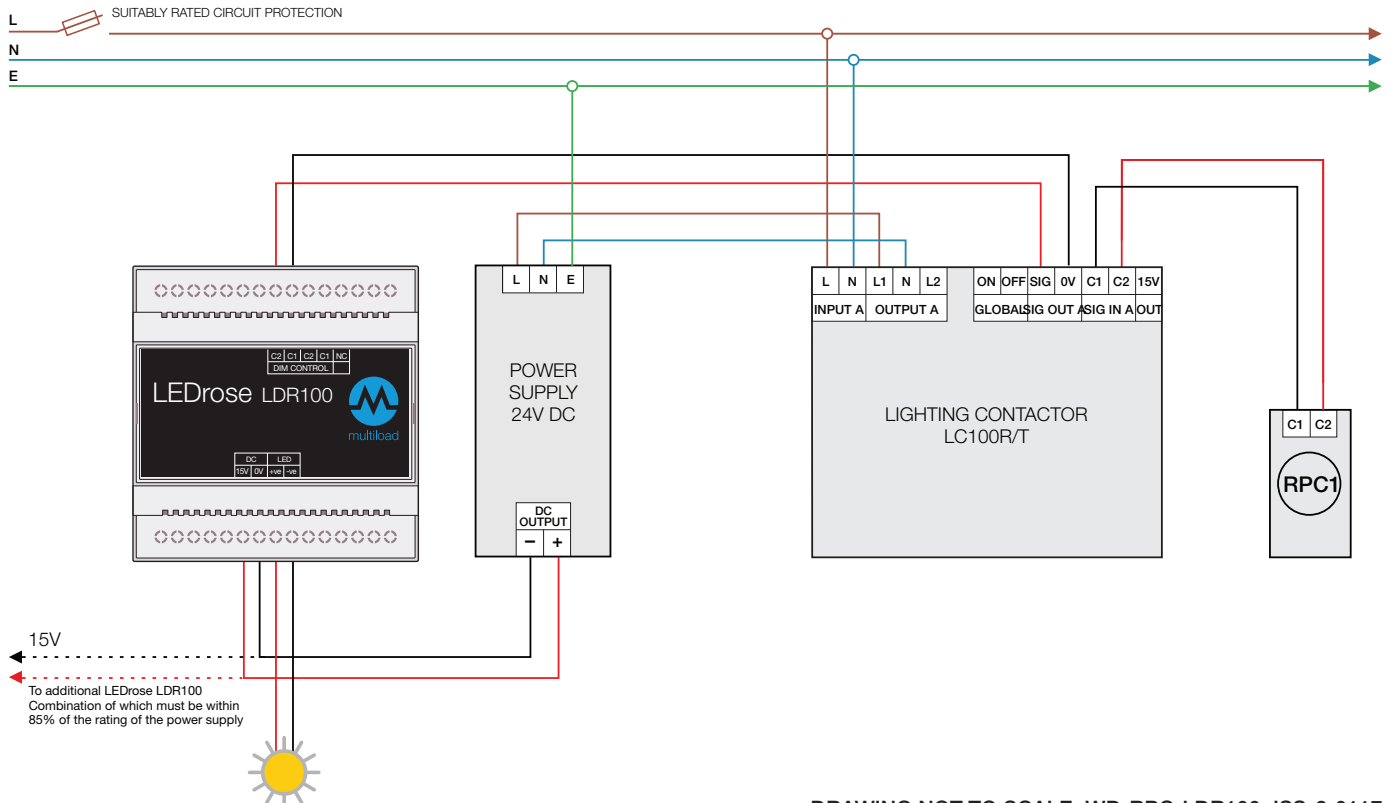


# RPC wired to Leading-edge Dimmer AD2500



DRAWING NOT TO SCALE WD-RPC-AD2500. ISS-1-0116

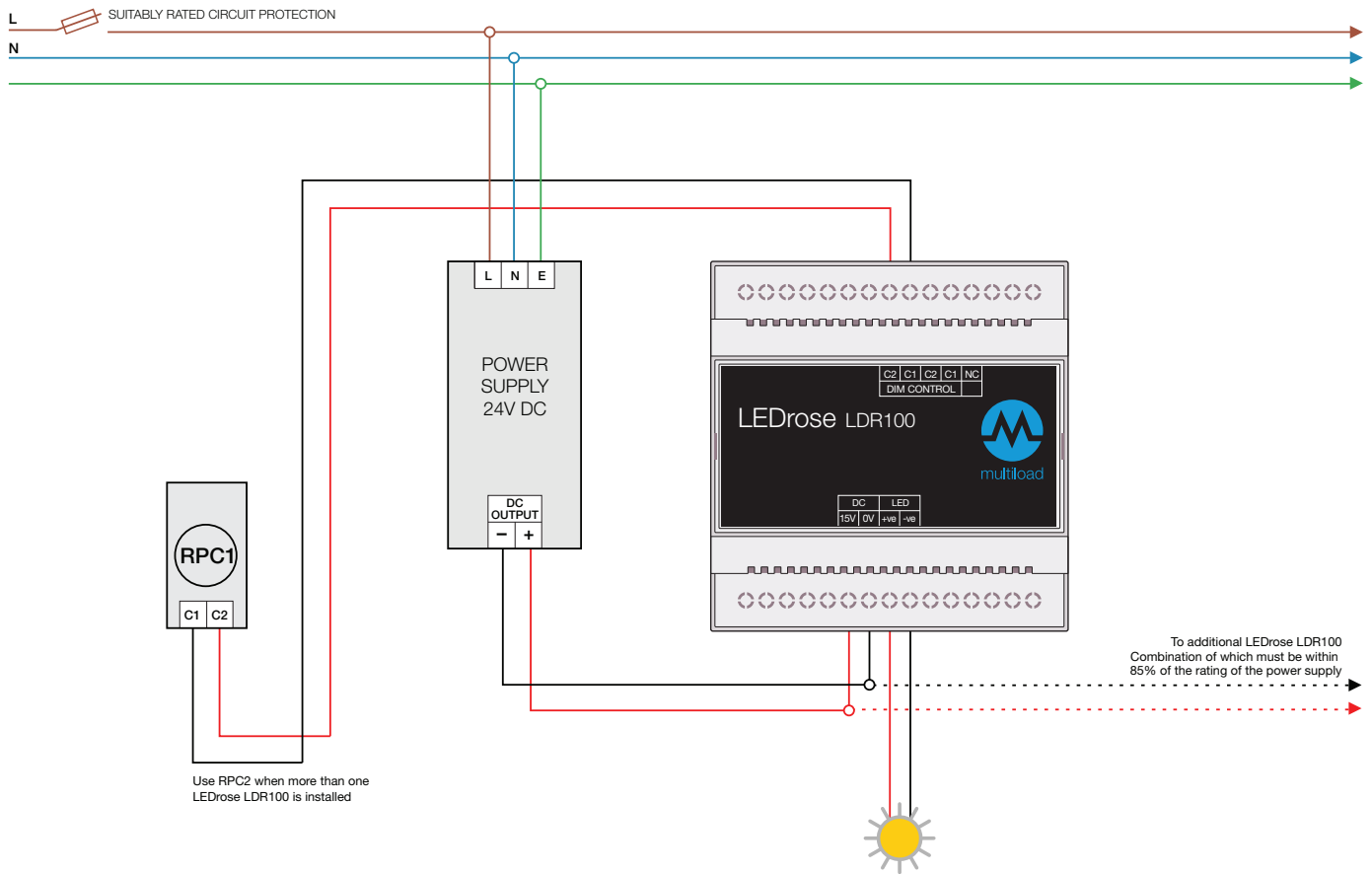
# RPC wired to LEDrose LDR100 with mains switching



DRAWING NOT TO SCALE WD-RPC-LDR100. ISS-2-0117



# RPC wired to LEDrose LDR100 without mains switching



Use RPC2 when more than one LEDrose LDR100 is installed

DRAWING NOT TO SCALE WD-RPC-LDR100. ISS-2-0117