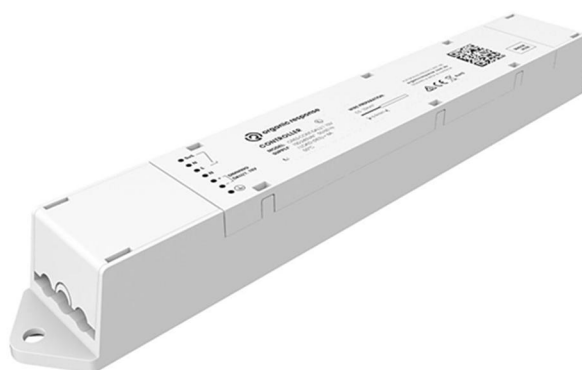


# TECHNICAL DATA SHEET

## CONTROLLER P2UL

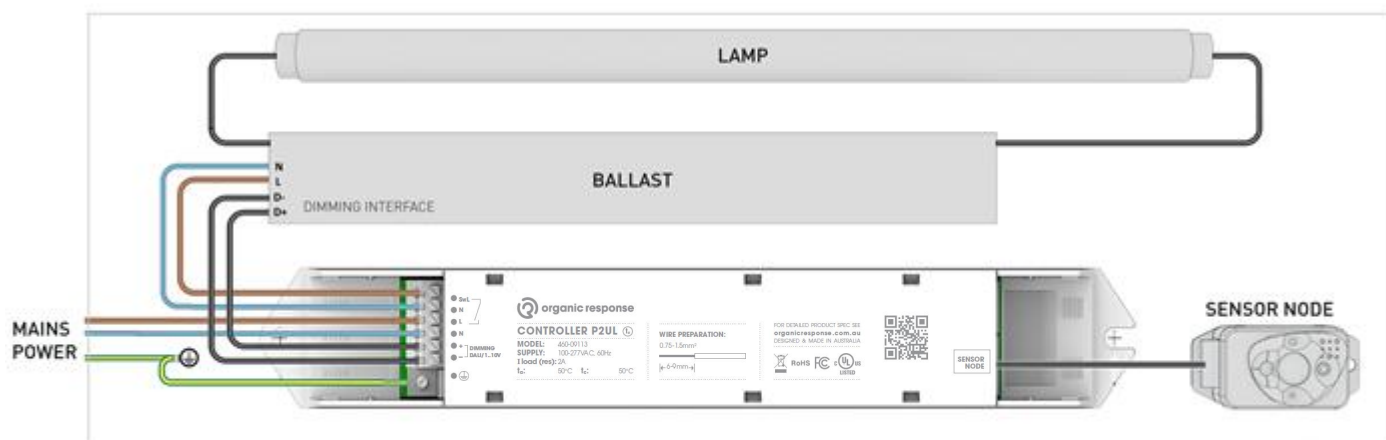
V6, 24/11/16

When paired with the Organic Response Sensor Node 2, the Controller P2UL provides switched and dim control of an associated luminaire. The Controller P2UL receives an analogue signal from its paired Sensor Node that represents the desired light level, the controller then communicates this to the luminaire dimming device. The Controller P2UL also provides electrically isolated, 5 VDC power to the Sensor Node from the incoming mains supply.



**Figure 1: The Organic Response Controller P2UL**

### WIRING EXAMPLE



**Figure 2: Organic Response Controller P2UL wiring example**

TECHNICAL DATA	PART #: 460 – 09113
CONTROLLER DIMENSIONS	H: 29mm x L: 264mm x W: 36mm
CONTROLLER WEIGHT	155g
CONTROLLER POWER SUPPLY	100-277VAC, 60Hz
CONTROLLER AMBIENT TEMPERATURE (ta)	0°C ... 50°C
CONTROLLER CASE TEMPERATURE (tc)	0°C ... 50°C
CONTROLLER CURRENT CONSUMPTION	8mA
CONTROLLER STANDBY POWER	220mW when relay is off and drops to 180mW when the relay has been off for more than 30 seconds
EXTERNAL DIMMING INTERFACE	Auto-sense between Dali & 1-10V
SENSOR NODE CONNECTOR	RJ45
AUX PORT CONNECTOR	RJ12
DEGREE OF PROTECTION	IP20 (when installed in a luminaire or with plastic end caps fitted securely)
PROTECTION AGAINST CONTACT WITH LIVE PARTS	Provided by the plastic casing, when end caps are fitted securely
PROTECTION CLASS	I
LOAD CONTACT	Standard rating: 2A resistive load Subject to list of qualified ballast/lamp combinations, available on request. The current rating is printed on the Controller P2UL plastic casing of all units.
DALI CURRENT OUTPUT	12mA
INTERNAL FUSE	1A slow blow, non-replaceable (not connected in series with the ballast load)
J10 (L, SwL, N, D+, D-) TERMINAL	Wire Type : 0.75-1.5 mm <sup>2</sup> solid or fine stranded, 18-16 AWG Strip Length : 6-9mm Insulation Voltage : 277VAC (min)
J11 (⊕) TERMINAL	Wire Type : 0.75 - 1.5 mm <sup>2</sup> solid or stranded, 18-16 AWG Strip Length : 6-9mm Insulation Voltage : 277VAC (min) Tighten Torque : 7 lb-in
BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE RATING	20A Breaker (Typical)
POLLUTION DEGREE	2
EMC COMPLIANCE	CFR47 FCC Part 15 Subpart B CFR47 FCC Part 15 Subpart C (when a Backpack is in-use)
ELECTRICAL SAFETY COMPLIANCE	UL 60730-1 and CSA E60730-1 UL Listed (XACN) and Canadian Listed (XACN7), File E475855, Vol. 2 UL Component (XACN2) and Canadian Component (XACN8), File E475855
FIELD SERVICEABLE PARTS	None
COMMODITY CODE	8537 10 99 99

**Notes:**

- When used for detached installation, the controller should be installed inside an enclosure material in order to adhere to UL Standards.
- When a Backpack is in-use, the FCC statement below applies:

## **FCC Part 15 statement**

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

*FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.*

*This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.*

## **FCC Part 15B statement**

*This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:*

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

## **MPE or SAR statement**

### **Radiation Exposure Statement:**

*This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.*

*Subject to change without notice. Please contact Organic Response for further details.*