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# Integral P2

The Integral P2 is a high-performance PWM lighting controller with a wide 12-48VDC input range and up to 380W output. P2 supports five independent channels for precise LED control of single colour, TW, RGB, RGBW and RGBTW, ensuring smooth flicker-free dimming. Designed with built in strain relief and seamless Casambi app integration, it enables intuitive wireless control, automation, and scene customization for various lighting applications. The P2 is part of the Integral range of controllers offering miniaturised design and expansive control of DALI,Phase-dim, Relay and PWM luminaires.

## Features

### Control

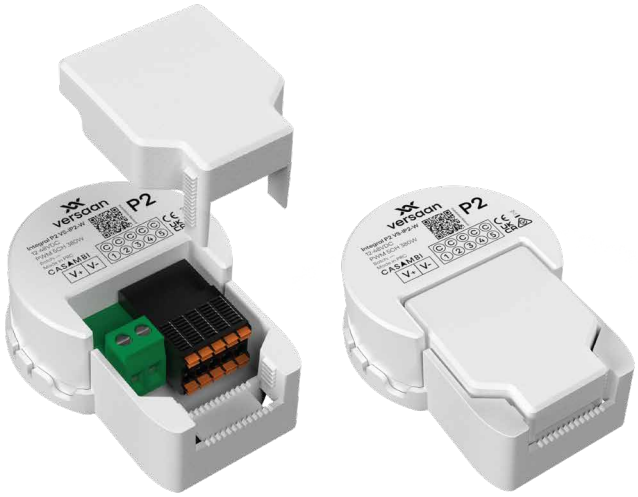
With a wide 12-48VDC input range and up to 380W output, the P2 is designed to efficiently manage extended LED strip installations. Supporting single-color, tunable white, RGB, RGBW and RGBTW lighting, providing versatile and precise control for a variety of applications. High frequencies of 16kHz provide advanced flicker free performance.

### Flexible

Pluggable terminal blocks increase installation speed with the new push output terminal now being toolless. The P2 also provides matching Common (C) outputs per channel to make single colour and multi channel tuneable white wiring faster.

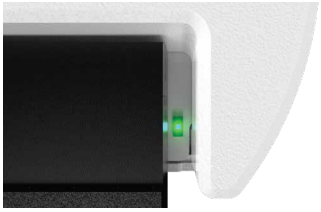
### Versatile

The P2 now comes standard with the Integral Surface Kit providing easy installation and strain relief with the built-in snap cable clamp. Two M3 screws are secured below the P2 during installation providing a streamlined aesthetic.




### Identify

The built-in LED indicator makes identifying the P2 effortless. Useful when pre-commissioning Casambi networks before product is sent to site or when many Integral products are installed in the same location.



### Explore

Explore the Integral range, a comprehensive control solution featuring DALI, Phase-dim, Relay, PWM, and Push Button control all seamlessly integrated into a single enclosure architecture. Designed to provide complete control of luminaires with support for multiple dimming and control types in residential and commercial projects.

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# Integral P2

## Specifications

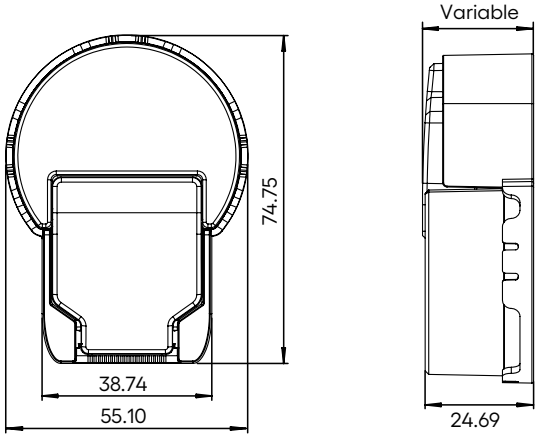
### Order Codes

| Product SKU | Description |
|---|---|
| VS-IP2-W | Integral P1 - White |

### Technical Specification

| | |
|---|---|
| **Dimensions (VS-IP2-W)** | 74.75x55.10x24.69mm |
| **Control** | Casambi (inc Long Range) |
| **Wireless Range** | 86m/LR 160m (OA LOS) |
| **Supply** | 12-48VDC |
| **Output** | 5CH PWM 12-48VDC |
| **12VDC Max Load** | 15A/CH (16A All CH's) |
| **24VDC Max Load** | 12.5A/CH (16A All CH's) |
| **48VDC Max Load** | 8.2A/CH (8.2A All CH's) |
| **Type** | Single Colour, TW, RGB,RGBW, RGBTW |
| **Frequency** | 16kHz |
| **Ambient Temperature** | -20 to 55C TA |
| **Max Case Temperature** | 60C TC |
| **Wiring** | Screw/Push Terminal |
| **Terminal Capacity** | 2.5mm$^2$ In/1.5 mm$^2$ Out |
| **Mounting Screws** | 2x M3 Flat Head |
| **Screw Centres** | 25mm |
| **Material** | Flame Retardant ABS+PC |
| **Ingress Protection** | IP20 |
| **Transceiver Frequency** | 2.4GHz ISM Band |
| **Warranty** | 5 Years |

### Dimensions - VS-IP2-W




**Top View** **Side View**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