

# Integral P1

The Integral P1 is a high-performance PWM lighting controller with a wide 12-48VDC input range and up to 380W output. P1 supports four independent channels for precise LED control of single colour, RGB, RGBW and TW, ensuring smooth, flicker-free dimming. Designed for seamless Casambi app integration, it enables intuitive wireless control, automation, and scene customization for various lighting applications. The P1 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 P1 is designed to efficiently manage extended LED strip installations. Supporting single-color, RGB, RGBW, and tunable white lighting, providing versatile and precise control for a variety of applications. High frequencies of 18kHz provide flicker free performance.



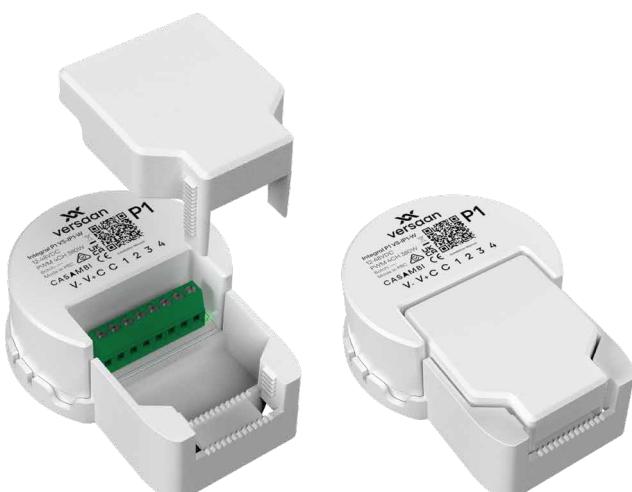
### Compact

Boasting a small form factor the P1 fits into switch boxes allowing easy connection to traditional push buttons switches.



### Versatile

The Integral Surface Kit allows any Integral product to be surface mounted while also providing strain relief with the built-in snap cable clamp. Two M3 screws are secured below the Integral during installation providing a streamlined aesthetic.



### Identify

The built-in LED indicator makes identifying the P1 effortless. Useful when pre-commissioning Casambi networks before product is sent to site or when more than one Integral product is installed in the same switchbox.



### 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.





# Integral P1

## Specifications

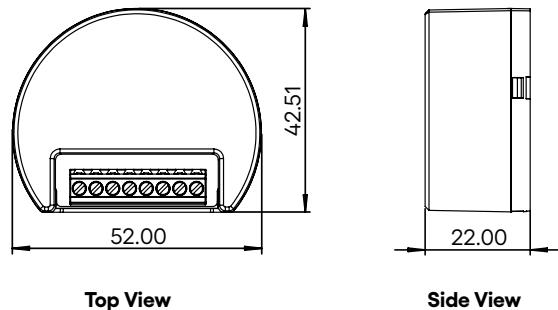
### Order Codes

Product SKU	Description
VS-IP1-W	Integral P1 - White
VS-ISM-W	Integral Surface Kit - White

### Technical Specification

<b>Dimensions (VS-IP1-W)</b>	52x42.51x22mm
<b>Dimensions (VS-ISM-W)</b>	74.75x55.10x24.69mm
<b>Control</b>	Casambi (inc Long Range)
<b>Wireless Range</b>	98m/LR 180m (OA LOS)
<b>Supply</b>	12-48VDC
<b>Output</b>	4CH PWM 12-48VDC
<b>12VDC Max Load</b>	15A/CH (16A All CH's)
<b>24VDC Max Load</b>	12.5A/CH (16A All CH's)
<b>48VDC Max Load</b>	8.2A/CH (8.2A All CH's)
<b>Type</b>	Single Colour, RGB,RGBW, TW
<b>Frequency</b>	18kHz
<b>Ambient Temperature</b>	0 to 50C TA
<b>Max Case Temperature</b>	60C TC
<b>Wiring</b>	Loop in/loop out
<b>Terminal Capacity</b>	1.5 mm <sup>2</sup>
<b>Mounting Screws</b>	2x M3 Flat Head
<b>Screw Centres</b>	25mm
<b>Material</b>	Flame Retardant ABS+PC
<b>Ingress Protection</b>	IP20
<b>Transceiver Frequency</b>	2.4GHz ISM Band
<b>Warranty</b>	5 Years

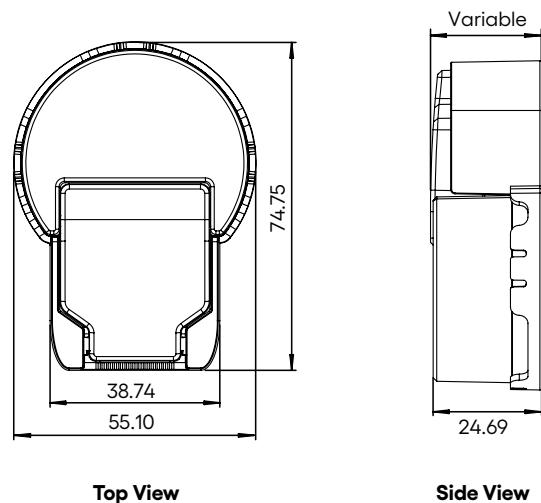
### Dimensions - VS-IP1-W (mm)



Top View

Side View

### Dimensions - VS-ISM-W (with P1 Installed)



Top View

Side View