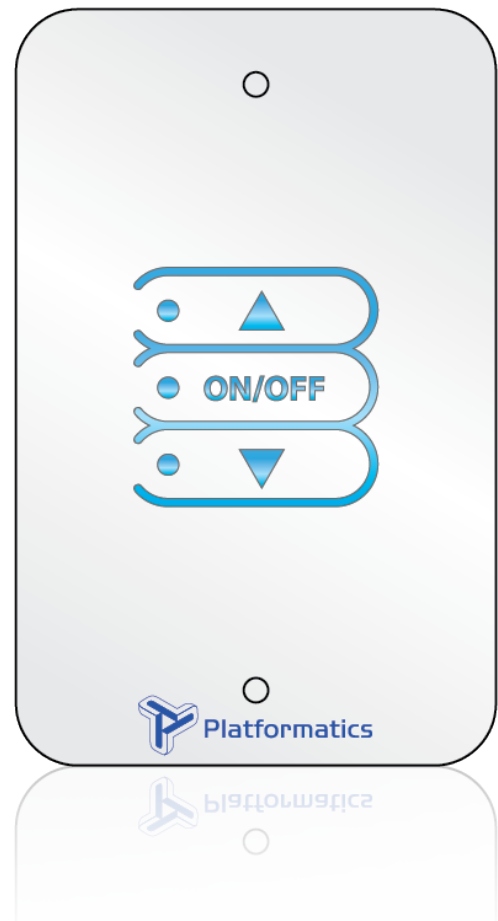


Nodes, Wall Switches, & Peripherals Data Sheet

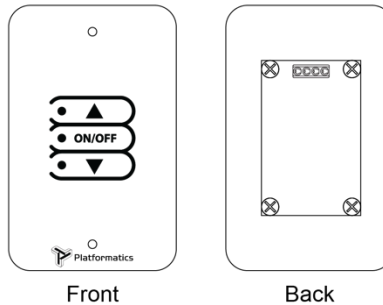
The Platformatics solution of Power over Ethernet (PoE) LED lights enables users to move lights quickly, safely, and easily. Adjustments to the light temperature and intensity are easy to manage individually or by zone. The PAC can easily automate failure detection. Our PoE enabled lights support numerous lighting control functions, as well as many advanced applications. Advanced applications include: lighting scenes, color scenes, playlists, real-time building monitoring and energy reporting. The Platformatics Area Controller is the gateway to intelligent and beautiful buildings.

Wall Switch Back-Light Color

Each wall switch has an RGB configurable backlight. This feature enables customers to set a color to indicate how the switch behaves in a space. “Blue” might indicate that the room is a shared conference room while “Red” may indicate that a reservation is required. Platformatics makes it easy to use color to indicate local meaning.

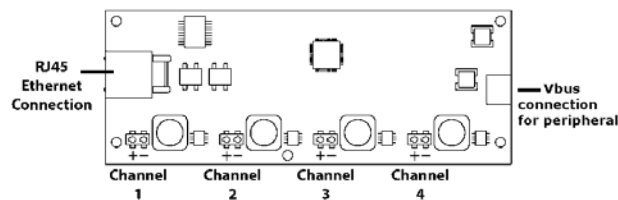


Wall Switch



Wall Switch Features	Description and Benefit
Single Gang Wall Switch	The single gang touch button wall switch can act as a simple on/off switch or as a dimmer in press and hold mode. The wall switch has a fully programmable RGB backlight. The backlight makes it easy to see in the dark and to match your corporate logo color.
Peripheral Communication Bus	2-twisted pairs 18-22 AWG solid core wire

Nodes



Light Node Features	Description and Benefits
White Light Node	The White Light Node provides simple white light troffers and luminaires with advanced control and power management. These nodes are ideal for use with 2x2 and 2x4 troffers as well as with a 4 pack of down lights. Nodes attach directly to the troffer. They provide secure auto commissioning, granular dimming, and advanced power monitoring.
Tunable White Light Node	This node has all the features of the White Light Node while also supporting multiple white light temperatures. This node is ideal for 2x2 fixtures built for circadian rhythm playlists.



RGB+W Light Node	The RGB+W Light Node supports full panel RGB+W Lights. This node provides up to 50 Watts for high output color control. Each node can work on a flat panel or power a RGB+W downlights, strip lighting, wall sconces or other accent topologies.
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Lighting Node Features At-A-Glance

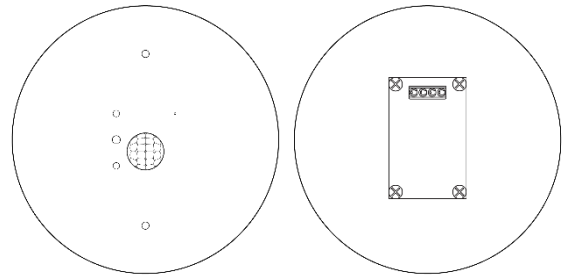
Multiple LED Lights	From simple white light illumination to full color, Platformatics has a node for the job.
Device Discovery	Nodes support automatic device discovery. Using the Platformatics Area Controller, lights and peripherals are automatically discovered and identified. Automatic device discovery makes system turn-up, reconfiguration, and ongoing operation easy.
Granular Dimming	Set dimming levels from 0-100%. Systems support dimming in 1/10 of 1% power intervals. Dimming rates are also configurable from 1 second to several minutes. This feature enables administrators to set min/max dim levels.
Flexible Sensor Configuration	Set the sensitivity and default operations of all control devices from wall switches to dimmers and sensors, including light level and vacancy.
Supports Multiple LED Lights	The Platformatics Area Controller software enables configuration and control of any attached light from basic white to color tunable and full RGB.
RGB Color Control	RGB color control is configured through a webpage on the area controller.
Wall Switch Port	Attach wall switches and sensor hubs to any light node.
Boot Loader	Nodes ship with an onboard boot loader to make future firmware upgrades easy. No ladders are required.

<i>Light Nodes</i>	<i>Attributes and Specifications</i>
Ethernet Interface	10/100BASE-T Auto Negotiate MDI RJ-45
Ethernet Interface Power Speciation	IEEE 802.3af or 802.3at PoE, PoE+, or UPoE (Power over Ethernet) PSE (Power Sourcing Equipment)
Maximum Input Voltage	60 Volts
Maximum Power Draw	60 Watts
Maximum Output Voltage	5V DC
Maximum Output Current	Channel and Model Dependent 100-2000mAmps DC 1 to 4 Channels Nominal Maximum Output Current as Supplied.

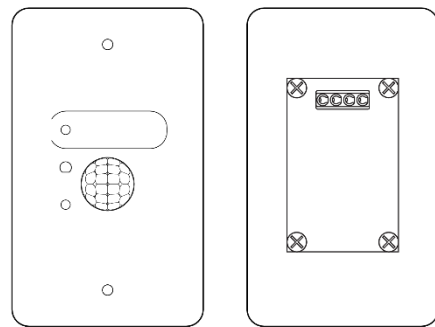
Peripheral Communication Bus	2-twisted pairs 18-24 AWG Stranded or Solid wire 1 Pair - 1 Mbps differential data pair - CAN 2.0 (ISO 11898-2) 1 Pair - +12 VDC @ 500mAmps Maximum
Maximum Aggregate Power Output	50 Watts (Including all 4 LED Channels and Peripheral Keypads & Sensors)

Intelligent Lighting Sensor Hub

The Platformatics Intelligent Lighting Sensor Hub combines temperature, light level, and passive infrared motion sensing into a single device. The sensor comes in two configurations: Wall switch and ceiling mount. Each wall switch sensor comes with an LED to allow for device discovery.

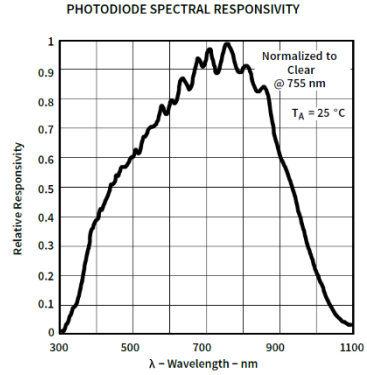


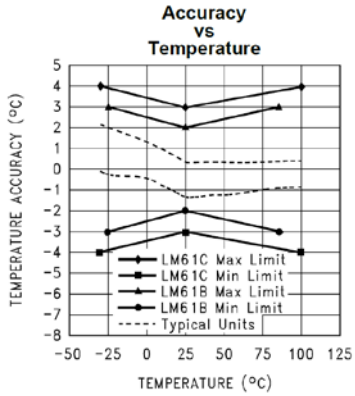
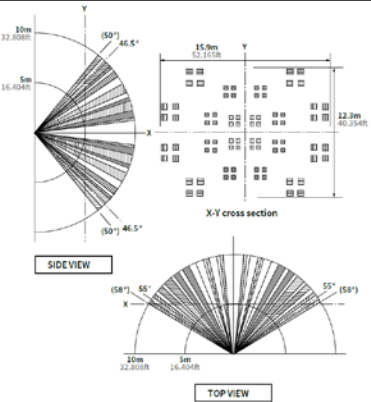
Ceiling Mounted Sensor HUB



Wall Mounted Sensor HUB

Intelligent Lighting Sensor Hub Features At-A-Glance

<i>Sensor Hub Features</i>	<i>Description and Benefit</i>
Light Level Sensor	<p>The light level sensor enables customers to maintain constant light level while maximizing savings. The sensor detects changes in sunlight to enable lights to automatically reduce power consumption.</p> 

<p>Temperature</p>	<p>The onboard temperature sensor accurately measures between -13⁰F – 185⁰F (and -25⁰C – 85⁰C). This sensor ensures building operators and tenants are able to maintain a constant view of building operating conditions.</p>	
<p>PIR Motion Sensor (Passive Infrared)</p>	<p>The PIR sensor detects movement up to 33 ft/ 10M. The horizontal x vertical range is 1000 x 930. The diffusion cover supports 80 zones. These features combine to create a highly reliable motion/vacancy sensor.</p>	
<p>Node Connection</p>	<p>The sensor hub conveniently connects to any Platformatics node. This enables users to add sensors easily and anytime anywhere additional insight is required.</p>	
<p>Sensor Hub Auto Detection</p>	<p>Each sensor hub is preloaded with a phone home discovery protocol. This ensures that newly added sensors are discovered by the Platformatics Area Controller. Once visible, the sensor can be simply and quickly configured to work within any zone or light.</p>	

Product IDs

Hardware Name	Product Number	Supported Software Version
Sensor/ceiling switch	POE-S1-W-B-W	V1.1
Sensor/wall switch	POE-S1-C-B-W	V1.1
3 Button Wall Switch	POE-WS1-B-W	V1.0 and up
1-U Channel Node	POE-LN1-1U-E	V1.2 and up
2-U Channel Node	POE-LN1-2U-E	V1.2 and up
4-U Channel Node	POE-LN1-4U-E	V1.2 and up



Hardware Compliance and Environmental Operating Conditions

Safety Compliance	UL 928
ROHS	Compliant
Normal Operating Temperature and Altitude (Density Altitude)	-5°C to +45°C, up to 5000 feet (1500m) -5°C to +40°C, up to 10,000 feet (3000m) Min ambient temperature for cold start is 0°C
Relative Humidity	10% to 95%, noncondensing
Storage Environment	Temperature: -40°C to 70°C Altitude: 15,000 ft

Our Mission

We create beautiful environments through intelligent applications.

For additional information, visit www.platformatics.com.