QALIUM

LIGHTING CONTROL THAT FINALLY MAKES SENSE



CONTROL MORE
SPEND LESS

PRODUCT CATALOGUE
2027

www.qalium.com

CONTENTS

WHY QALIUM EXISTS 03

OUR VALUES 04

CONTROLLERS 05

- CHROMA·5 06
- Solum·L 08
- UMBRA·T 10
- VELA·4 12
- VELA·32 14

SWITCHES 17

- Nexo·4A 18
- Tactum·4 20
- Tactum·8 22

GATEWAYS 24

- Porta G 25

SENSORS 27

- Iris-F 28



WHY QALIUM EXISTS

Qalium develops lighting control systems that balance technical precision with creative freedom, enabling designers to shape light as part of the architectural experience. Rather than focusing solely on specifications, it emphasizes how light behaves in space, adapting, responding, and enhancing atmosphere.

Its solutions are designed to integrate seamlessly into projects, supporting both performance and design intent across residential, hospitality, and architectural applications. The goal is not just control, but the creation of environments where light responds intelligently to people and context.

Precision, shaped by light

OUR VALUES



PRECISION

Every product and project is executed with meticulous attention to detail and engineering excellence.

INNOVATION

We continuously push boundaries in lighting technology, integrating the latest advances in LED and control systems.

QUALITY

From raw materials to final installation, we uphold the highest standards of quality and reliability.


CONTROLLERS

CHROMA·5

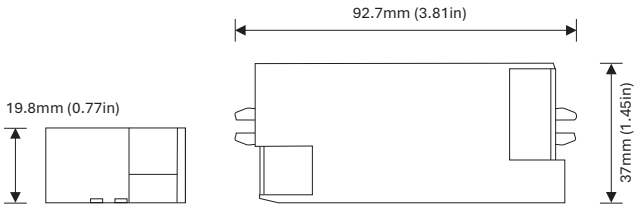
Five Channel PWM Controller Module
11 output configurations

Functional Description

CHROMA·5 is a 5-channel constant voltage dimming module. It provides excellent color adjustment performance and is based on manual input or automated control to adjust LED light color and brightness. Max load is up to 180W total @24Vdc.

The device is a part of the QALIUM lighting controls system, including controllers, sensors, switches, modules, drivers and gateway. It can be easily commissioned, configured and controlled from any mobile device and can be connected to the control cloud for data analytics and configuration management.





Design Notes

- Supports 11 output configurations: 1-5 channels, 1-2 CCT, RGB, RGBW, RGBCW and RGB+TW for different applications
- Flexibility to choose channel configuration on the go
- BLE 5.0 based non-flooding intelligent communication
- Overload protection
- Zero downtime Over-the-Air (OTA) firmware updates

Specification

Electrical		
Input Voltage		12 - 48Vdc
Input Current		< 8A
Power Loss		< 3W
Output Voltage		12 - 48Vdc
Output Current		< 5A
Max Loading Rating	@12Vdc	90W total (up to 60W/ch)
	@24Vdc	180W total (up to 120W/ch)
	@48Vdc	300W total (up to 200W/ch)

Bluetooth	
Frequency Range	2402-2483MHz
RF Transmit Power	8dBm
RF Receiving Power	-85dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

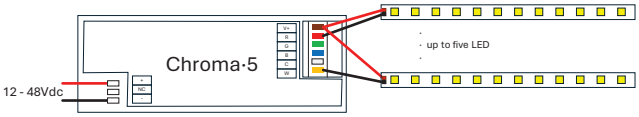
Physical	
Dimension	92.7×37×19.8mm (3.81×1.45×0.77 inch)
Operating Temperature	-20 to 50°C (-4 to 122°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)
Relative Humidity	5 - 85%



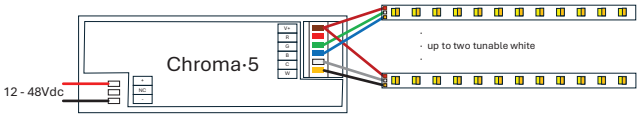
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Wring Diagram

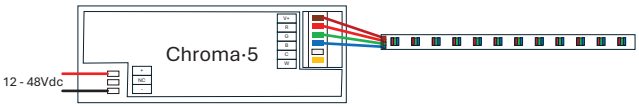
For up to 5 dimming channels



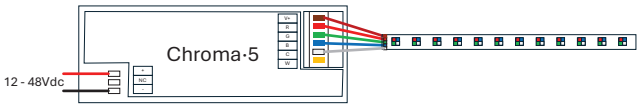
For tunable white control



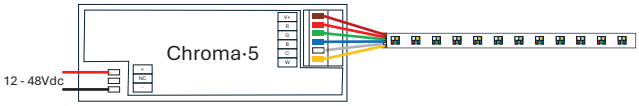
For RGB control



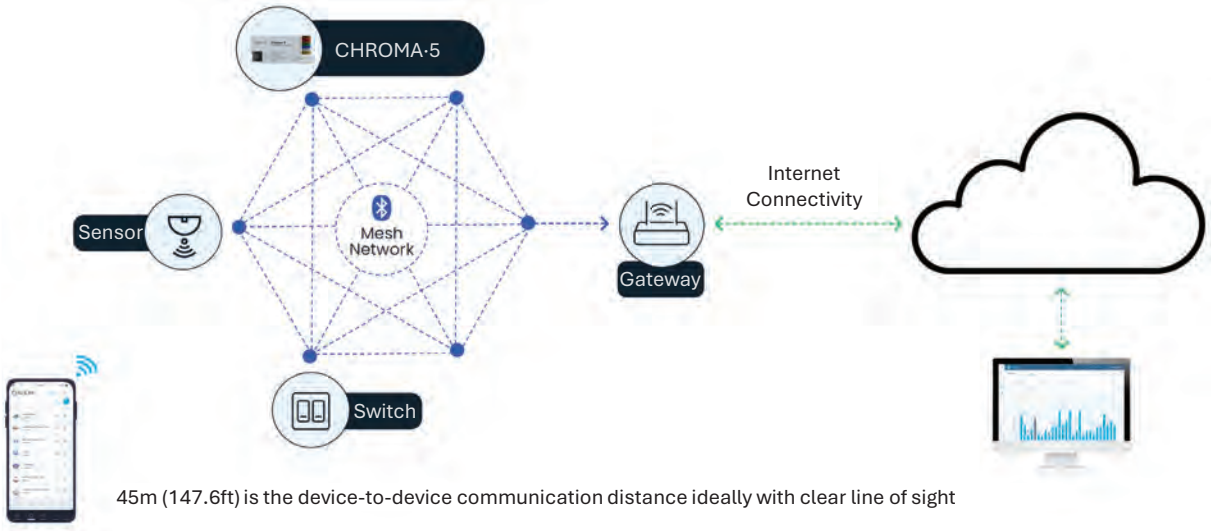
For RGBW control



For RGBCW or RGB+TW



- Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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Solum·L

2-channel AC powered 0-10V dimming controller with built-in relay



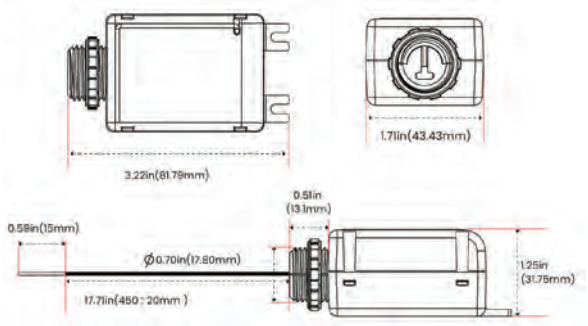
Functional Description

Solum·L, the dual-channel dimming and tunable AC lighting controller is a part of the QALIUM lighting controls system. The device is easy to mount in an electrical junction box or compatible fixtures. The device has dual channel 0-10V independent output to control intensity and correlated color temperature(CCT) and it has a 0-3 VDC input channel and 12VDC aux output to integrate with third-party sensors.

The device with a 3A relay for load control saves time designing an intelligent lighting network that is in tune with your circadian rhythm. It can be quickly commissioned, configured, and controlled from any mobile device and can be connected to controls cloud for data analytics and configuration management.

Design Notes

- Dual channel 0-10V independent output to control intensity and corelated color temperature (CCT)
- 3A relay for turning on/off dimming drivers
- 0-3VDC input channel to integrate with third party sensors
- Auxiliary 12V/200mA output to power sensors
- Zero downtime Over-the-Air (OTA) firmware updates
- Standard ½ inch chase nipple allows easy mounting to a junction box or compatible fixture



Specification

Electrical	
Input Voltage	120-277Vac, 50/60Hz
Input Current	Max 3.10A
Max Load Current	3A @120Vac 1.29A @277Vac
Max Output Wattage	360W @120/277Vac
Inrush Current	20A
Surge Protection	1kV

Output	
Number of Channels	2
Voltage Range	0-10Vdc ±0.2V
Source Current per Channel	10mA
Dimming Range	0-100%, 1000 steps
Dimming Curve	Linear (default) / logarithmic
Aux. Output Voltage	12Vdc
Aux. Output Current	max 200mA

Bluetooth	
Frequency Range	2402-2480MHz
Max Output Power	8dBm
Receive Sensitivity	-92dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

Sensor Input	
Voltage Range	0-3Vdc
Current	1mA

Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω Nominal
VSWR / Gain (Peak)	2:1Max / 3dBi



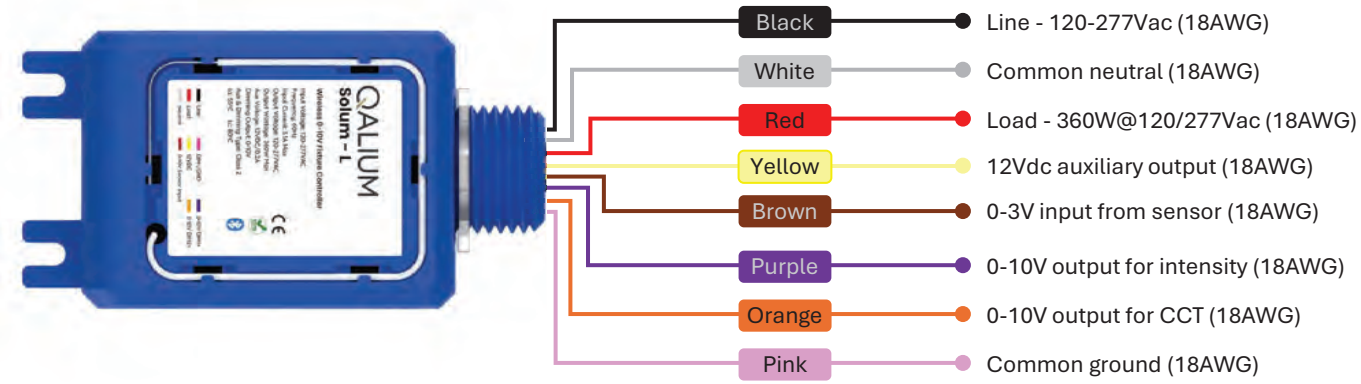
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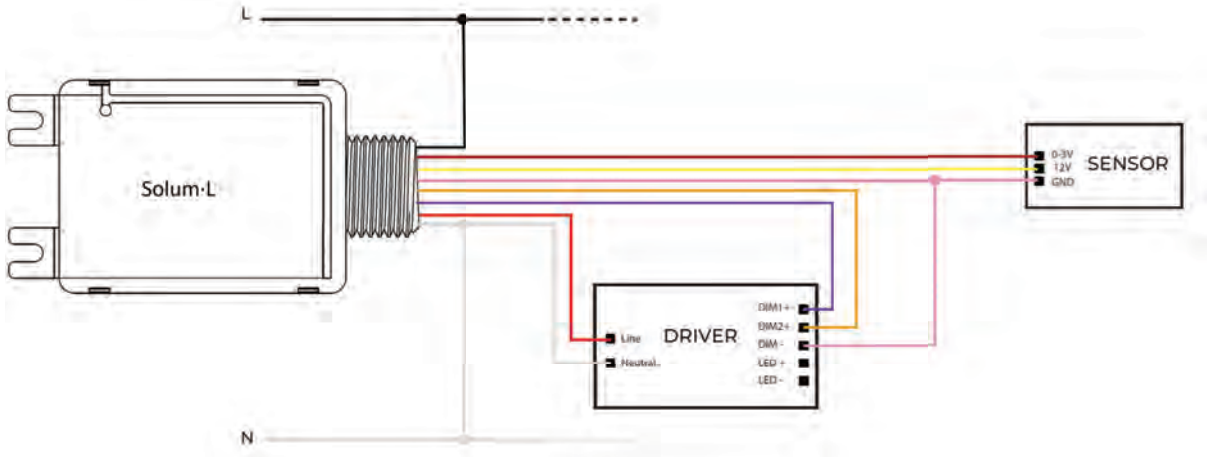
Specification

Environment	
Operating Temperature	-30 to 55°C (-22 to 122°F)
Case Temperature	80°C (176°F)
Relative Humidity	5-95% non-condensing
Max device-device Distance	45m (147.6ft) vary depends on environment

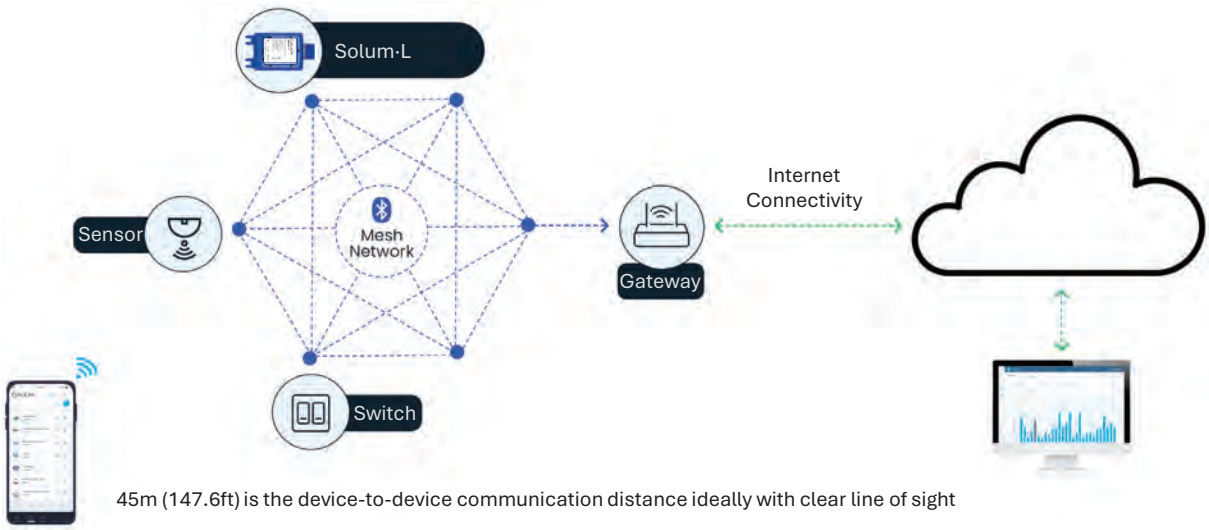
Physical	
Dimension and Weight	81.79×43.43×31.75mm, 93g (3.22×1.71×1.25 inch, 3.28oz)
Case Material	PC
Flammability Rating	UL 94 V-0

Wiring Diagram





- Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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UMBRA·T

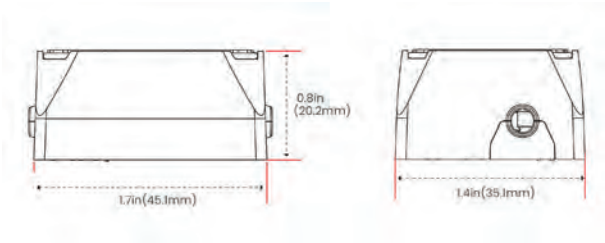
Bluetooth Trailing Edge Dimmer
Control up to max 250W



Functional Description

UMBRA·T is a BLE5.2 controllable, trailing edge dimmer. It operates on 90-277VAC input voltage range and can work with single LED loads of up to 250W and has output to connect a switch. It also comes with an optional push button switch input to control the dimming and ON/OFF of the connected load.

The device is a part of the QALIUM lighting controls system, including controllers, sensors, switches, modules, drivers and gateway. It can be easily commissioned, configured and controlled from any mobile device and can be connected to the control cloud for data analytics and configuration management.



Design Notes

- BLE5.2 based non-flooding intelligent communication
- 1 channel output, up to 250W @277Vac
- Supports resistive and capacitive loads
- Optional push button switch input to control the dimming and ON/OFF of the connected load
- Compact form factor for easy installation
- Zero downtime Over-the-Air (OTA) firmware updates

Specification

Electrical	
Input Voltage	90-277Vac, 50/60Hz
Inrush Current	75A
Surge Protection	4kV, L-N Bi wave
Dimming Operation Mode	Trailing edge
Max Output Power	250W @277Vac; 125W@90Vac
Min Power Requirement	None (active power)

Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω nominal
VSWR	1.92:1 max
Return Loss	-10dB max
Gain (peak)	1.5dBi
Cable Loss	0.3dBi max
Polarization	Linear

Bluetooth	
Frequency Range	2402-2483MHz
Max Output Power	8dBm
Receive Sensitivity	-95dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

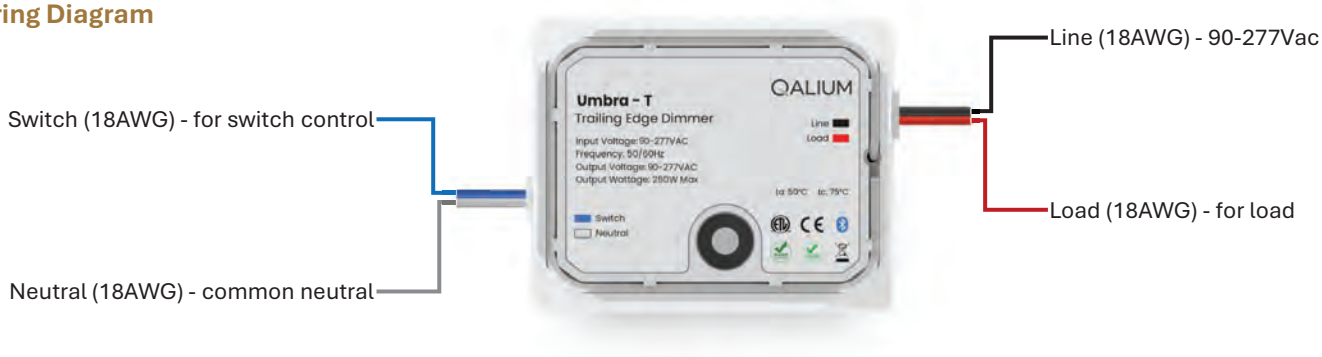
Environment	
Operating Temperature	-20 to 50°C (-4 to 122°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)
Relative Humidity	85%

Physical	
Dimension	45.1×35.1×20.2mm (1.7×1.4×0.8 inch)
Weight	120g (4.23oz)
Case Material	ABS Plastic
Flammability Rating	UL 94 V-0

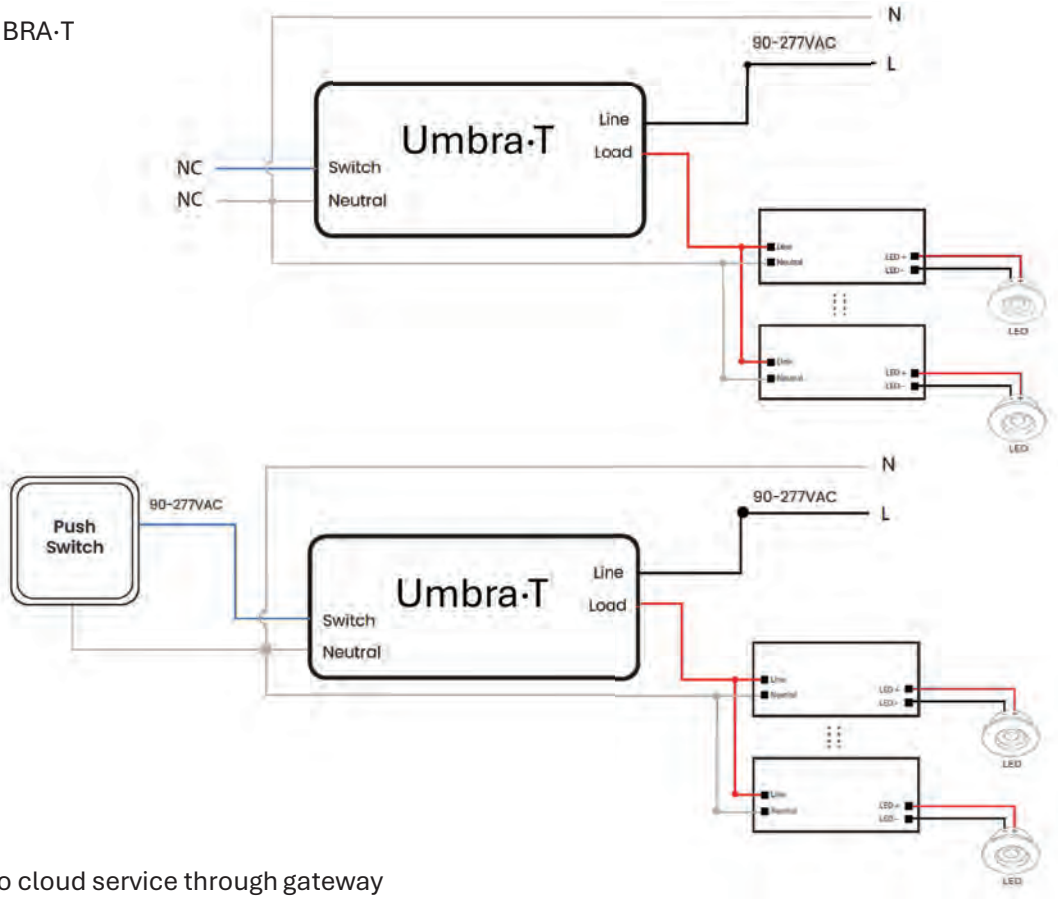


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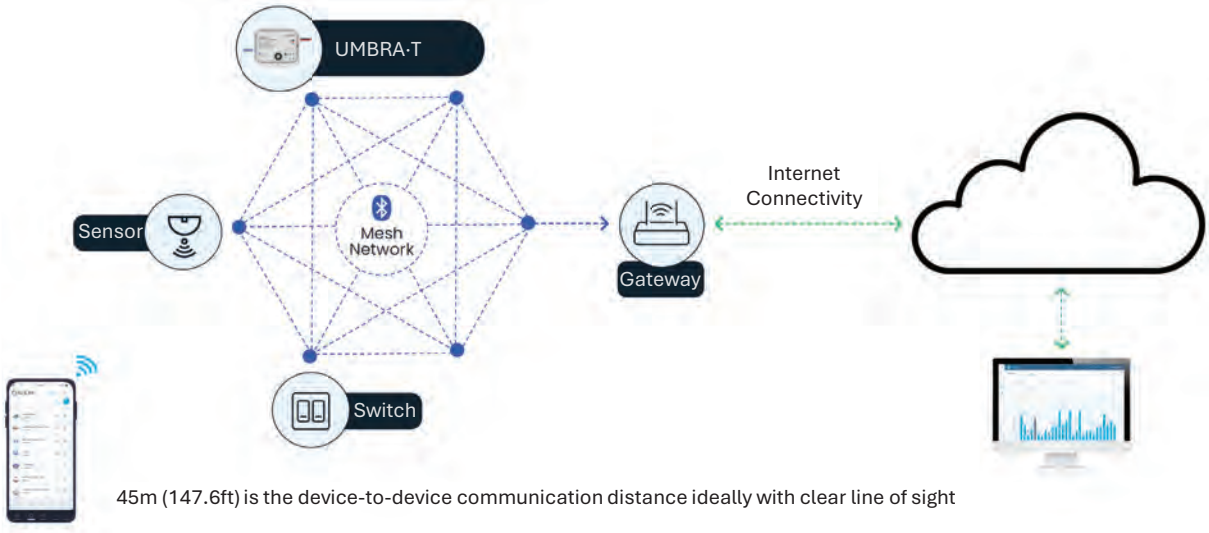
Wring Diagram



◆ Wiring UMBRA·T



◆ Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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VELA·4

Wireless DALI Controller
Control up to four DALI devices



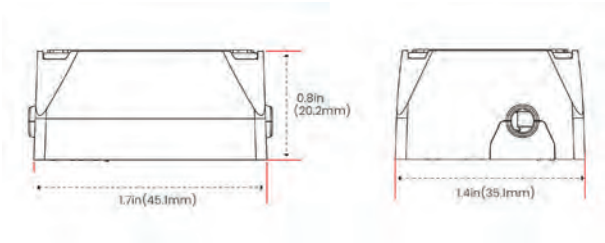
Functional Description

VELA·4 is a DALI controller and operates on 90-277VAC input voltage range. It can be connected to 4 DALI LED drivers. This device also has a 12VDC auxiliary output to power the sensors.

The device is a part of the QALIUM Lighting Controls system, including controllers, sensors, switches, modules, drivers and gateways. It can be easily commissioned, configured and controlled from any mobile device and can be connected to the cloud for data analytics and configuration management.

Design Notes

- Supports ON/OFF, dimming and tuning control of DALI drivers
- Compact form factor for easy integration
- BLE 5.2 based non-flooding intelligent communication
- 12VDC Class-2 auxiliary output to power sensor devices
- Zero downtime Over-the-Air firmware updates



Specification

Electrical	
Input Voltage	90-277Vac, 50/60Hz
Inrush Current	4A
Surge Protection	4kV
Standby Current	7.71mA

DALI	
Voltage and Current	11-13Vdc, 8mA
Supported Protocols	DALI2
Dimming Range	0-100%
Dimming Curve	linear/logarithmic (default)

Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω nominal
VSWR	1.92:1 max
Return Loss	-10dB max
Gain (peak)	1.5dBi
Cable Loss	0.3dBi max
Polarization	Linear

Bluetooth	
Frequency Range	2402-2483MHz
Max Output Power	8dBm
Receive Sensitivity	-95dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

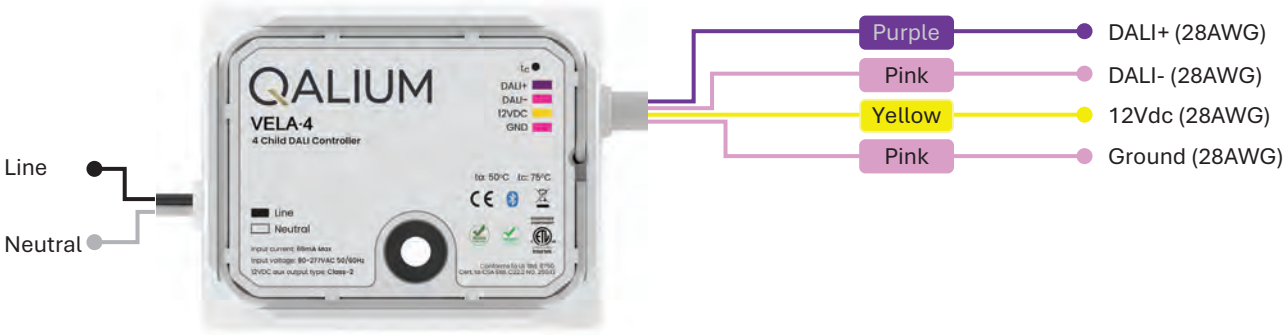
Auxiliary Output	
Voltage	12Vdc
Current	100mA

Environment and Physical	
Operating Temperature	-20 to 50°C (-4 to 122°F)
Relative Humidity	85%
Dimension	45.1×35.1×20.2mm (1.7×1.4×0.8 inch)
Weight	30.0g (1.06oz)
Case Material	Polycarbonate
Flammability Rating	UL 94 V-0

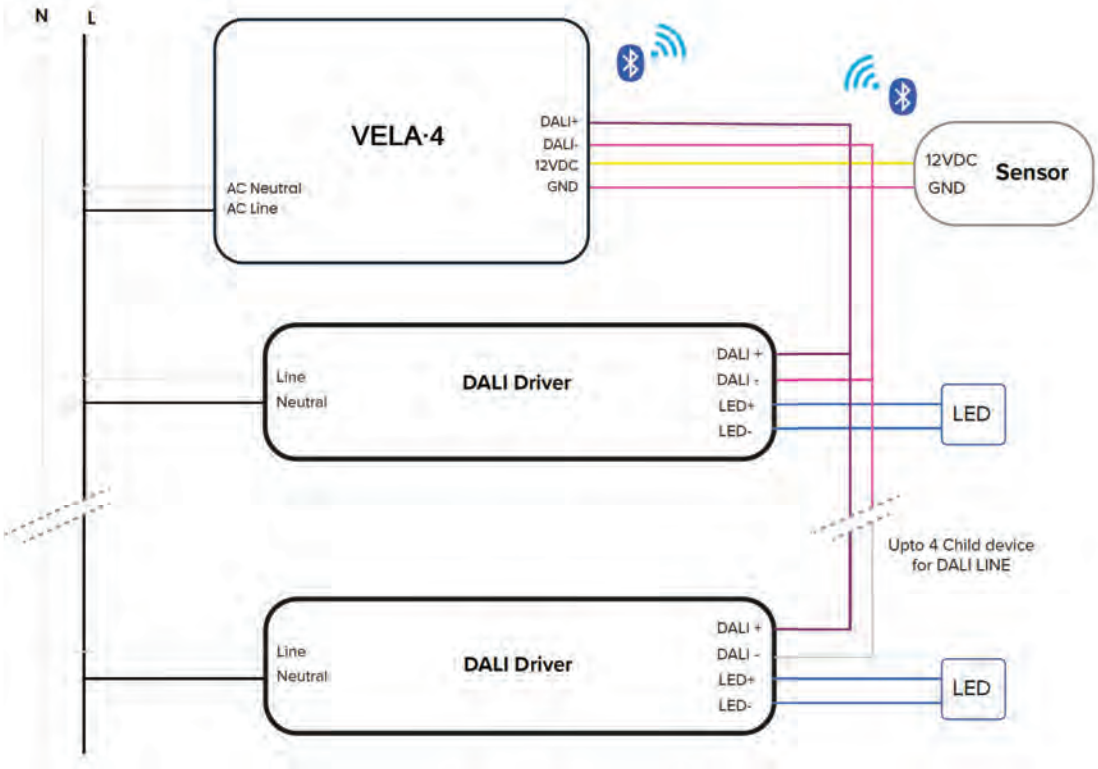


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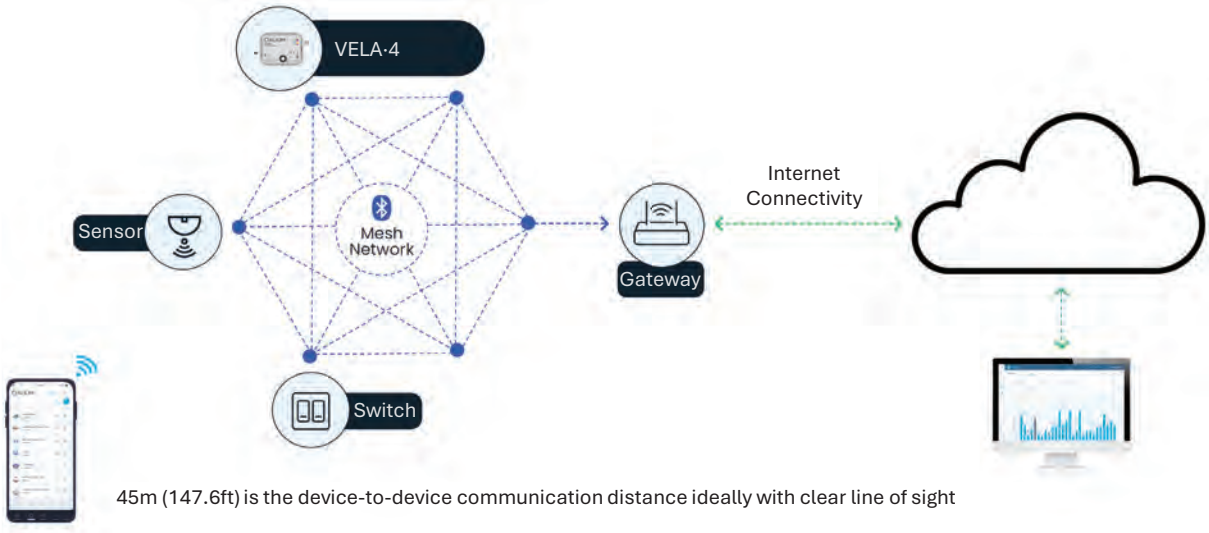
Wring Diagram



◆ Wiring VELA·4



◆ Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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VELA·32

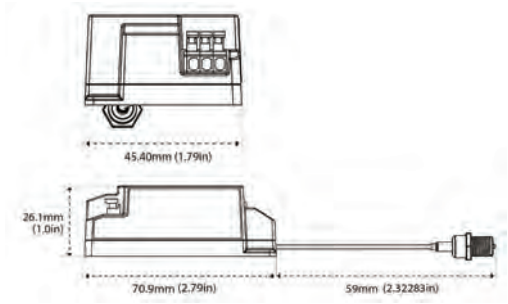
Wireless DALI Controller
Control up to max 32 DALI devices



Functional Description

VELA·32 is a highly flexible and cost-effective wireless DALI controller. It is a part of the QALIUM lighting controls system, including controllers, sensors, switches, modules, drivers, gateways. It can be connected to the controls cloud for data analytics and configuration management. The lighting network's configuration, commissioning, and controlling can be super-quick from any mobile device.

The device can be connected to a maximum of 32 DALI LED drivers and can be controlled as DALI or 0-10V. It operates on a 100-277 VAC input voltage range and can also be configured in 0-10V mode to control one or two 0-10V controllable LED drivers, or a tunable white LED driver with two 0-10V control interfaces. This device comes with a 3.3VDC input channel that can be used to communicate with an external sensor. It has a customizable communication interface for control and status and has an Input for an external AC relay.



Design Notes

- DALI supporting up to 32 child devices
- Optional analog 2 channel (0-10V) independent output to control intensity and CCT
- Zero downtime Over-the-Air (OTA) firmware updates

Specification

Electrical	
Input Voltage	120-277Vac, 50/60Hz
Input Current	10-30mA @max RF transmitting
Relay Load Output	0.8A @230Vac
Relay Leakage Current	5-15mA @rated input voltage
Inrush Current	20A
Surge Protection	1kV

Sensor Input	
Voltage Range	0-3Vdc
Current	1mA

Auxiliary Output	
Aux. Output Voltage	3.3Vdc
Aux. Output Current	30mA

DALI Output	
Voltage Range	12-20Vdc, typical 16Vdc
Current	max 160mA
Supported Protocols	DALI 2.0
Dimming Range	0-100%
Dimming Curve	Linear (default) / logarithmic

0-10V Output	
Number of Channels	2
Voltage Range	0-10Vdc ±0.2V
Source Current per Channel	10mA
Dimming Range	0-100%, 1000 steps
Dimming Curve	Linear (default) / logarithmic



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Specification

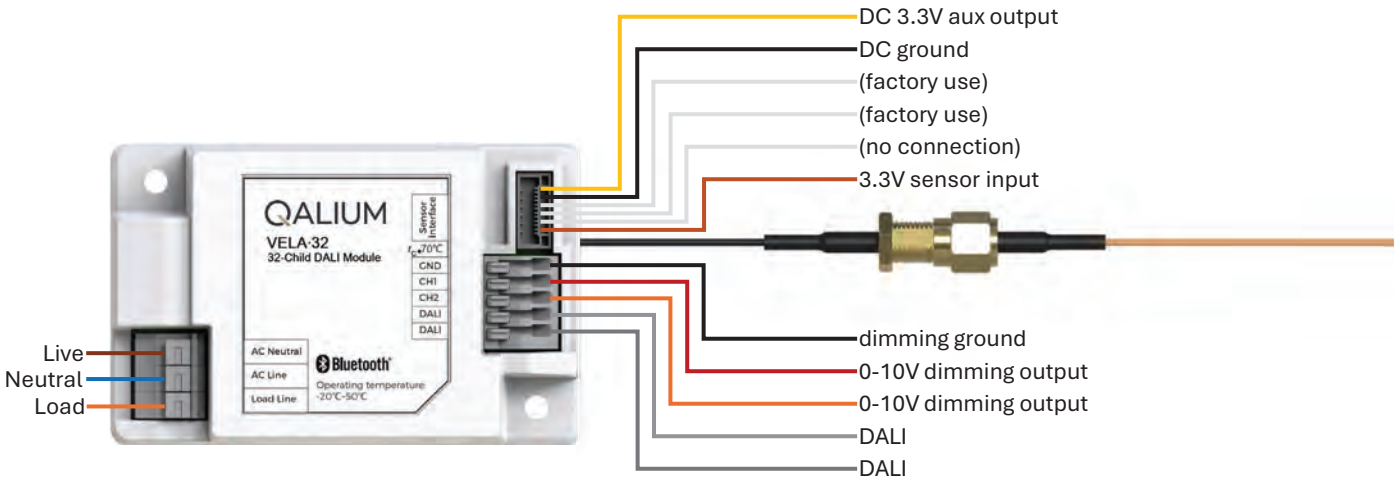
Bluetooth	
Frequency Range	2402-2480MHz
Max Output Power	8dBm
Receive Sensitivity	-92dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

Physical	
Dimension	70.9×45.4×26.1mm (2.7×1.78×1.02 inch)
Weight	50g (1.76oz)
Case Material	PC
Flammability Rating	UL 94 V-0

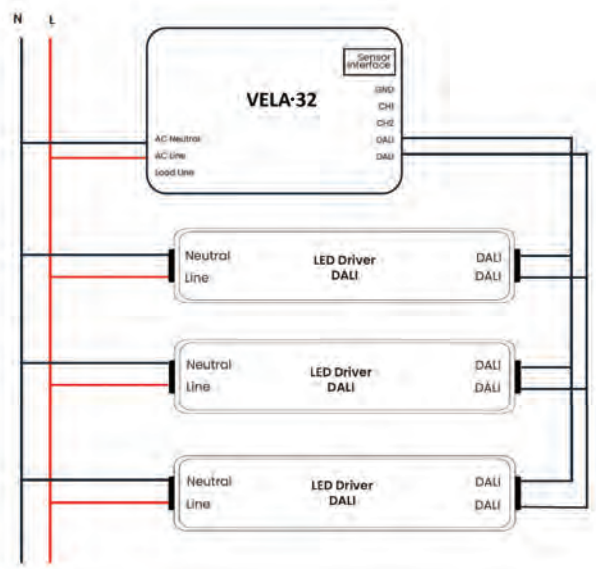
Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω nominal
VSWR	1.92:1 max
Return Loss	-10dB max
Gain (peak)	2dBi
Cable Loss	0.3dBi max
Polarization	Linear vertical

Environment	
Operating Temperature	-20 to 50°C (-4 to 122°F)
Case Temperature	70°C (158°F)
Relative Humidity	20-85% non-condensing

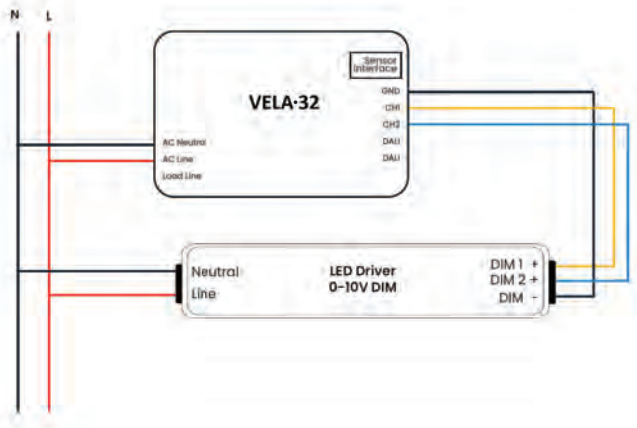
Wiring Diagram



◆ Wiring VELA·32 to DALI drivers



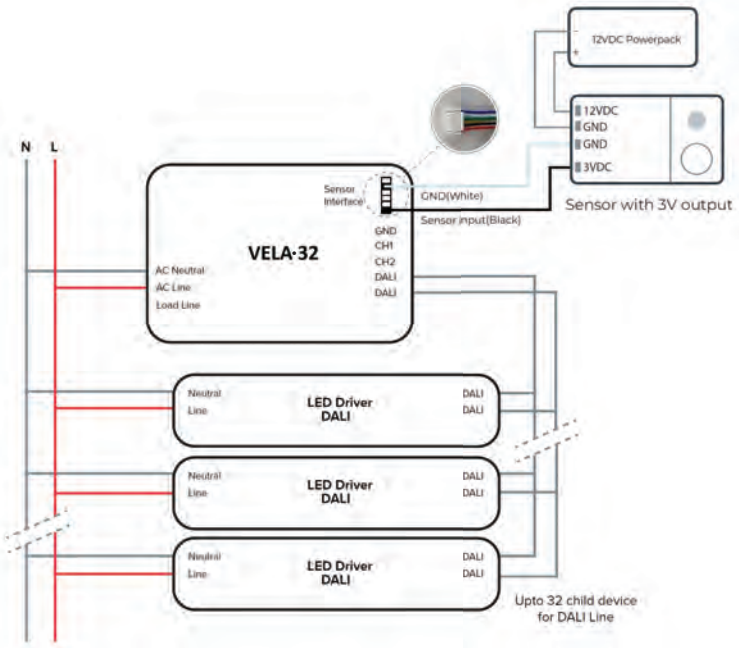
◆ Wiring VELA·32 to 0-10V dimmable driver



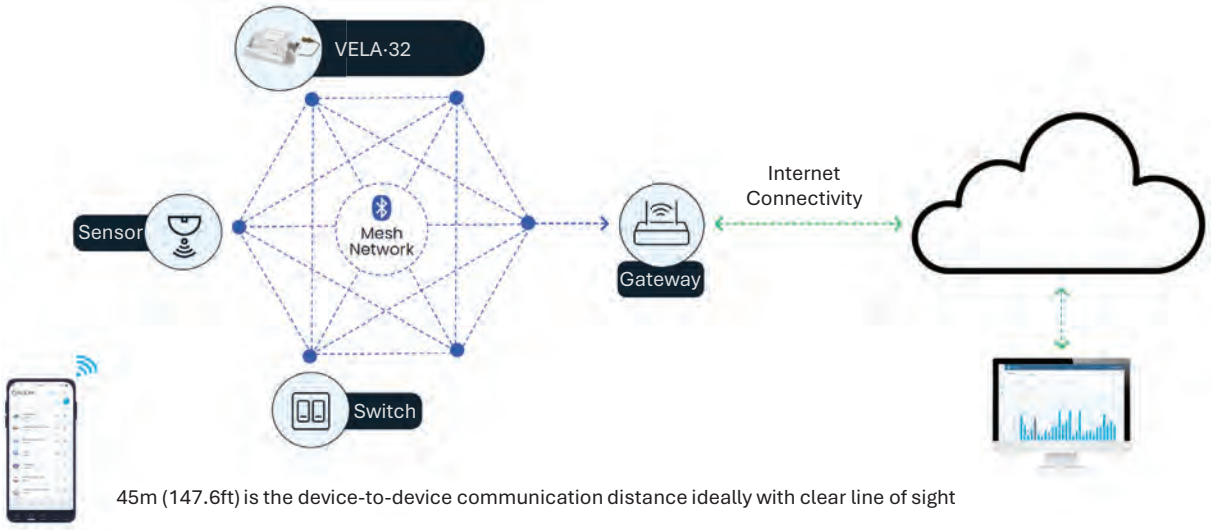
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Wring Diagram

- Wiring VELA·32 with an external sensor with 0-3V output using Molex connector



- Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight



SWITCHES

Nexo·4A

Bluetooth Wireless Switch Interface Device
Link 4 push button/toggle switches & a dimmer

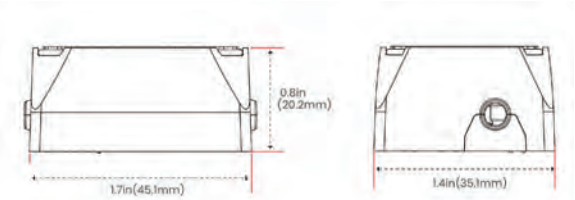


Functional Description

Nexo·4A is a switch interface which can be connected to 4-toggle switches or push-button switches and a dimmer switch, to control intensity and CCT of luminaires. This compact device has a built-in Bluetooth Module which enables it to communicate with the lighting network wirelessly. It is a part of the QALIUM lighting controls system, comprising controllers, sensors, switches, modules, drivers and gateways.

The device can be configured, commissioned, and controlled from any mobile device super-quick and can connect to the cloud for data analytics and configuration management.

Design Notes



- Connect any 4-toggle switch or push-button switch and a dimmer
- Control ON/OFF and intensity of luminaires
- Compact form factor for easy and clean integration within a junction box
- Compatible with dry contact relays
- Custom configuration of switches through mobile app

Specification

Electrical	
Input Voltage	90-277Vac, 50/60Hz
Inrush Current	4A
Surge Protection	4kV, L-L Bi wave
Standby Current	9mA

Switch Input	
Number of Channels	4 (push-button or toggle)
Voltage Range	0-3.3Vdc

Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω Nominal
VSWR	1.92:1 max
Return Loss	-10dB max
Gain (peak)	1.5dBi
Cable Loss	0.3dBi max
Polarization	Linear

Bluetooth	
Frequency Range	2402-2483MHz
Max Output Power	8dBm
Receive Sensitivity	-95dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

0-10V Input	
Number of Channels	1
Voltage Range	0-10Vdc
Dimming Range	0-100%

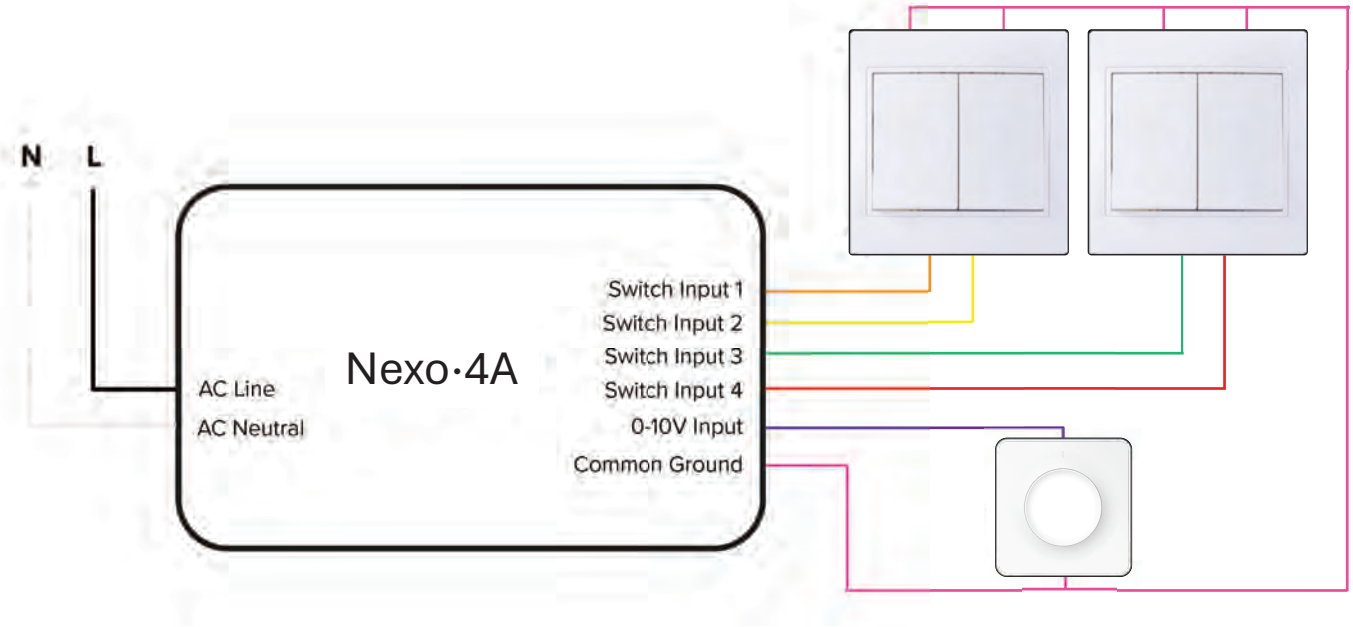
Environment and Physical	
Operating Temperature	-20 to 50°C (-4 to 122°F)
Relative Humidity	20 - 85%
Dimension	45.1×35.1×20.2mm (1.7×1.4×0.8 inch)
Weight	30.0g (1.06oz)
Case Material	Polycarbonate
Flammability Rating	UL 94 V-0

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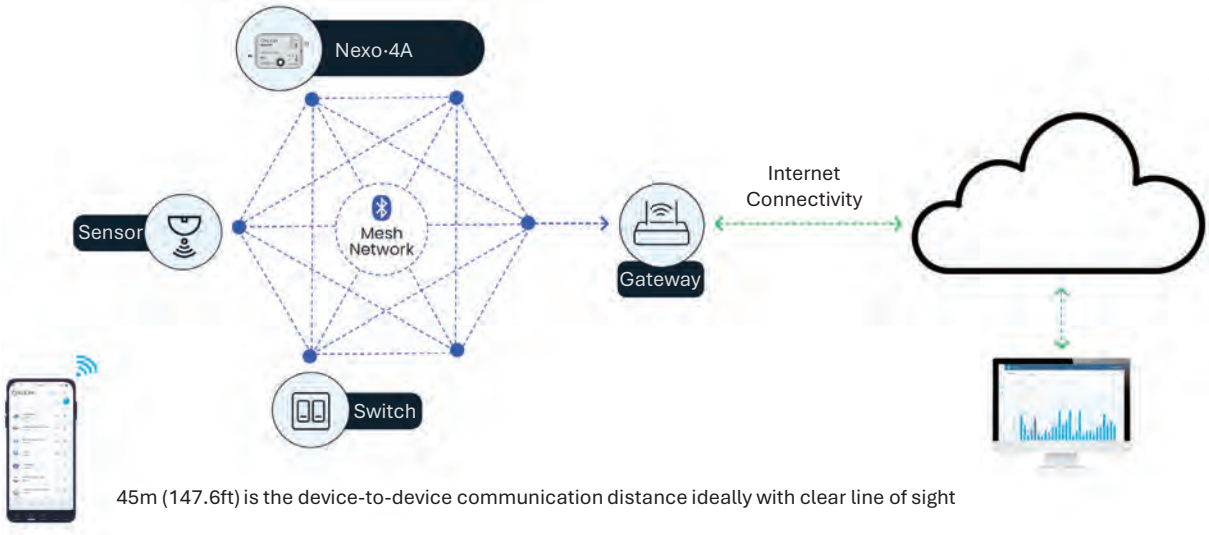
Wiring Diagram



- Wiring Nexo·4A with four push button/toggle switches and dimmer



- Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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Tactum·4

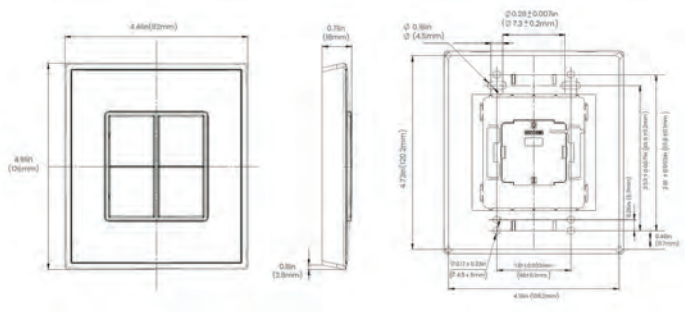
Wireless Self-powered 4 Button Switch



Functional Description

Tactum·4 is a self-powered universal energy harvesting wireless 4 button switch in the European 55x55 form factor. The device, a part of QALIUM Controls ecosystem can be configured, commissioned, and controlled from any mobile device super-quick and can connect to the QALIUM Controls cloud for data analytics.

The ecosystem comprises of controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. This maintenance-free BLE switch can be configured in custom mode instead of its default behavior.



Design Notes

- Integrated kinetic energy harvesting
- Control ON/OFF, dimming and tuning in the default mode
- Provision for custom configuration of rocker points using QALIUM Controls lighting application

Specification

Electrical	
Power	Electro-dynamic energy generator, maintenance free

Physical	
Dimension	112×126×18mm (4.4×4.9×0.7 inch)
Weight	150g (5.3oz)

Bluetooth	
Frequency Range	2402-2480MHz
Max Output Power	8dBm
Receive Power	-92dBm

Environment	
Ambient Temperature	-25 to 65°C (-13 to 149°F)
Storage Temperature	-25 to 65°C (-13 to 149°F)
Relative Humidity	0-95% non-condensing

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Operating Modes

Default Mode

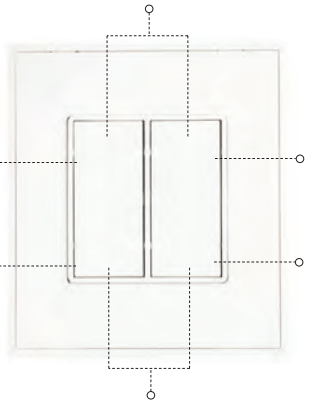
Press both buttons together for decreasing CCT

Increase Intensity

Decrease Intensity

ON

OFF

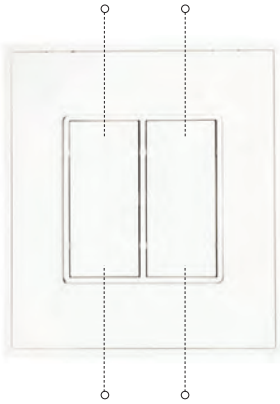


Press both buttons together for increasing CCT

Custom Mode (example)

Particular Luminaire “ON”

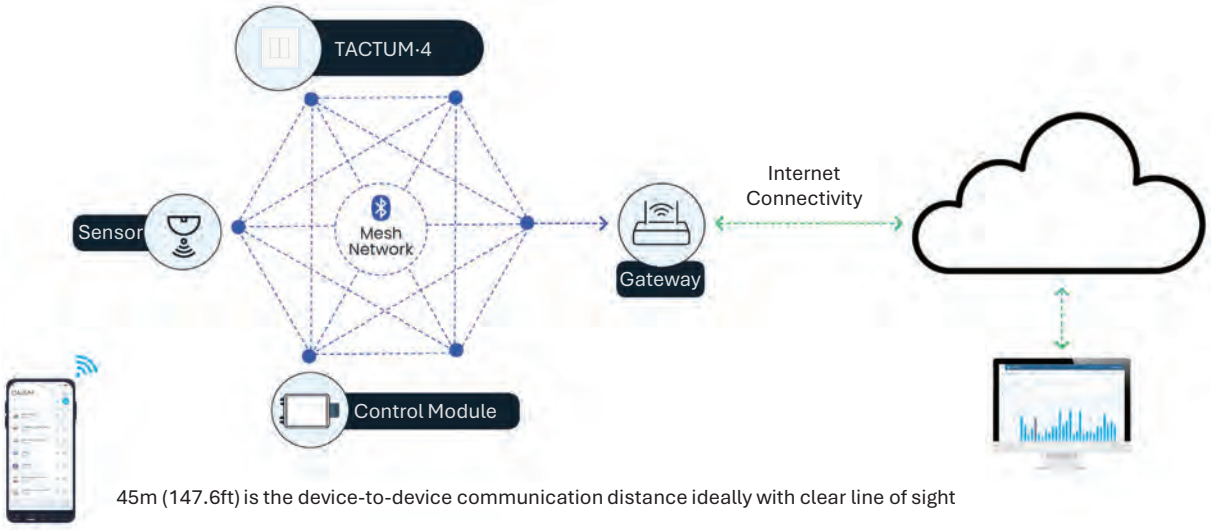
“PLAY” animation



Group “Intensity UP”

“Call” Scene

- Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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Tactum·8

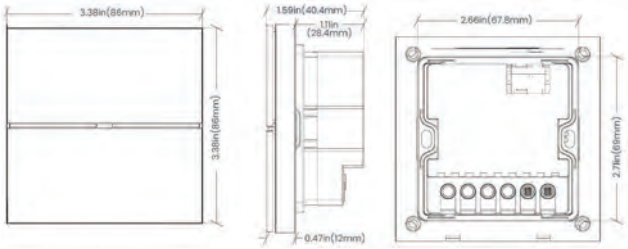
8-Button Panel
Smart Bluetooth Connection



Functional Description

Tactum·8 is an AC powered 8 button switch. It has a built-in Bluetooth module that enables it to communicate with other devices in the mesh network. It can be custom configured using QALIUM Controls mobile app to control the brightness, color temperature of the light source and invoke scene through buttons. Tactum·8 is one the switches in QALIUM lighting controls system comprises controllers, sensors, switches, modules, drivers and gateways.

Tactum·8 is designed to seamlessly integrate into any intelligent space, these smart switches offer unmatched convenience, flexibility, and aesthetic appeal. Available color options Available - Mica Black, Champagne Gold, Ferrari Red, Snowflake Silver and Champagne Silver.



Design Notes

- 8 button any point configuration function
- Simple and classic sophisticated look
- Distributed network communication based on BLE 5.2
- Zero downtime Over-the-Air firmware update
- Match the number of intelligent products to form a more perfect intelligent network web, mobile or tablet app control

Specification

Electrical	
Input Voltage	100-240Vac, 50/60Hz
Standby Power Consumption	<2W

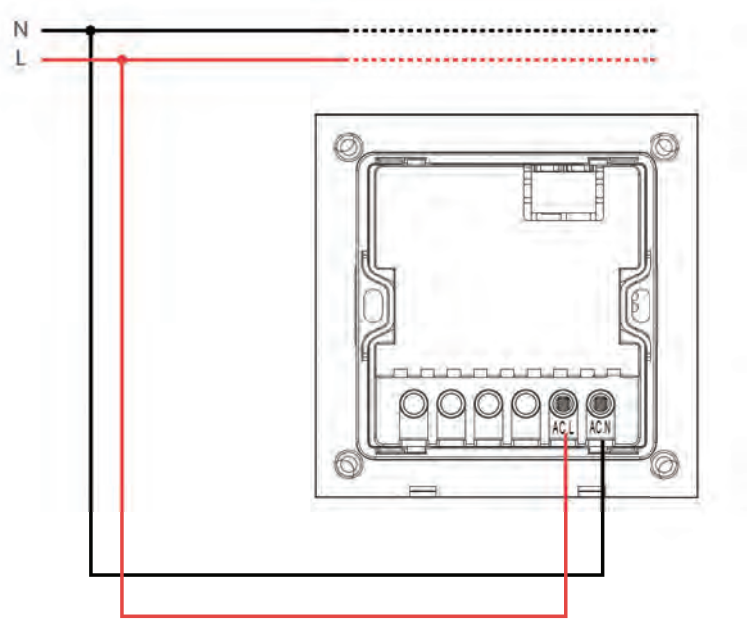
Bluetooth	
Frequency Range	2402-2480MHz
Max Output Power	8dBm
Receive Power	-92dBm

Physical	
Dimension	70.9×45.4×26.1mm (2.7×1.78×1.02 inch)
Weight	50g (1.76oz)

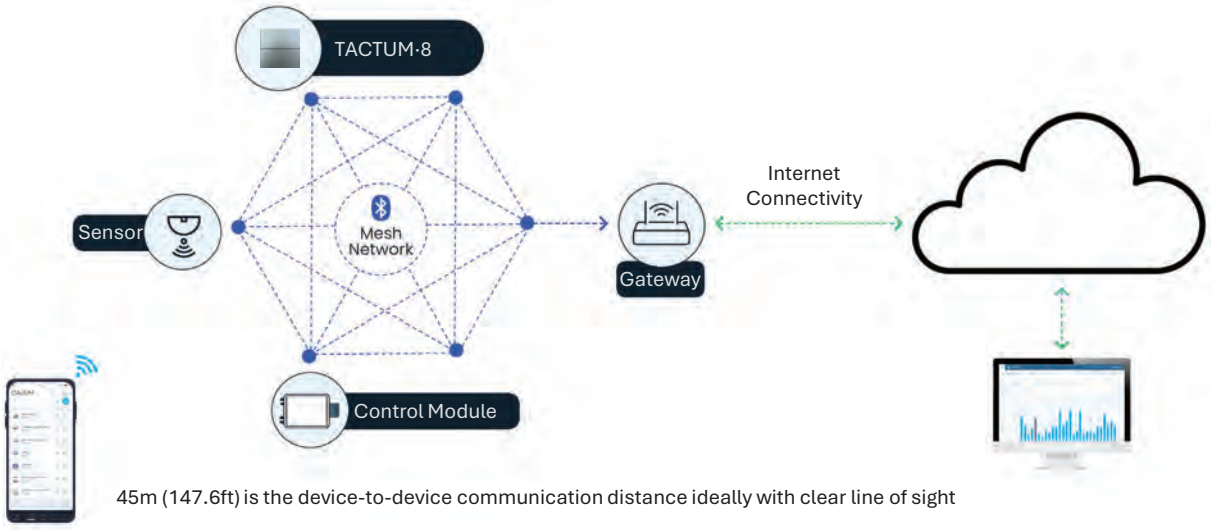
Environment	
Operating Temperature	-20 to 50°C (-4 to 122°F)
Case Temperature	70°C (158°F)
Relative Humidity	20-85% non-condensing

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Wring Diagram



◆ Connect to cloud service through gateway



45m (147.6ft) is the device-to-device communication distance ideally with clear line of sight

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GATEWAYS

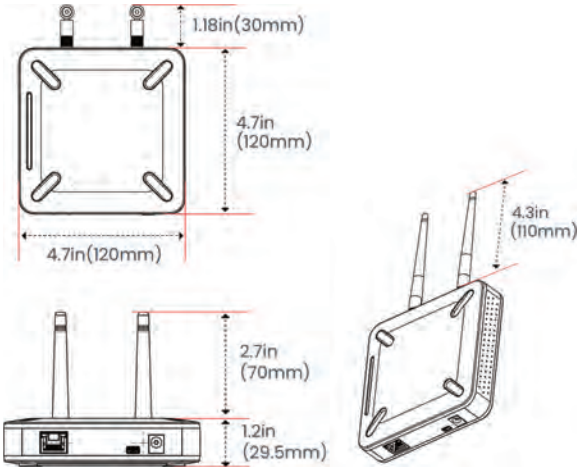
Porta G

Wi-Fi - Bluetooth Gateway with Real Time Clock, Ethernet and Astronomical Clock



Functional Description

Porta - G is an enterprise gateway that seamlessly connects to the cloud using WiFi or Ethernet and includes the Astronomical time clock feature for automatic lighting schedule adjustments based on the natural daylight cycle. It has a built-in real time clock that keeps the network date and time up to date even after a power outage or without cloud connectivity, ensuring uninterrupted scheduling. It helps in remote control, configuration, and monitoring of the Qalium controls ecosystem.



Design Notes

- WiFi/BLE 5.2 Gateway providing ubiquitous connectivity to BLE devices
- Real-Time Clock keeps track of the current time without cloud connectivity or after a power outage
- Support 802.11b/g/n modes
- Automatic switching for daylight saving time
- Daily astronomical calculation of the sunrise/sunset times based on the location
- Quick and easy configurations of the astronomical schedules from Qalium controls mobile application
- Offset for sunrise and sunset times can be adjusted up to ± 120 min. These time differentials are set separately for sunrise and sunset
- CR2032 coin-cell battery powered RTC with 10 years life
- LED indications for power, BLE, Wi-Fi and Error status
- Support Zero downtime Over-the-Air firmware updates for mesh devices

Specifications

Electrical	
Input Voltage	5V (mini-USB / DC adaptor)
Input Current	2A

Ethernet	
Number of Ports	1
Data Transmission Rate	10/100 Mbps

Wi-Fi	
Standard	IEEE 802 Part 11b/g/n

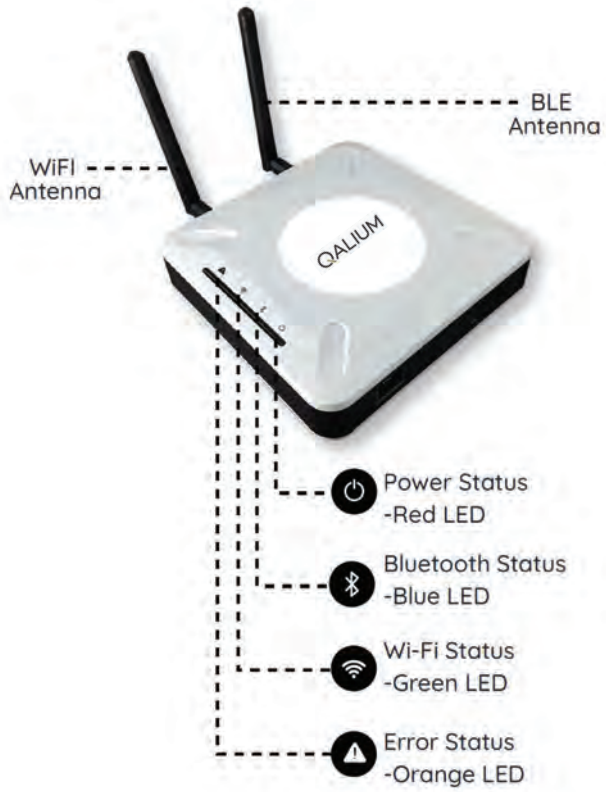
Bluetooth	
Frequency Range	5V (mini-USB / DC adaptor)
Max Output Power	2A
Receive Sensitivity	
Max device-device Distance	45m (147.6ft) vary) depends on environment

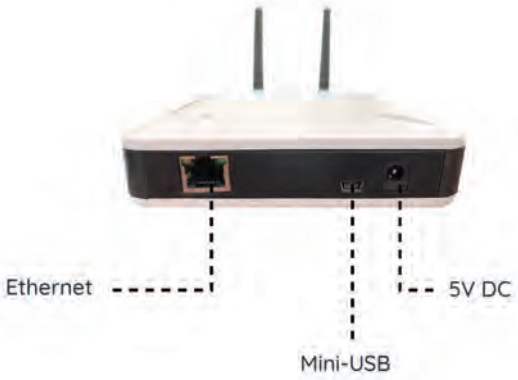
Real Time Clock	
Input Power	CR2032 3Vdc

Environment and Physical	
Operating Temp. and Humidity	-20 to 50°C (-4 to 122°F), 85%
Dimension	45.1×35.1×20.2mm

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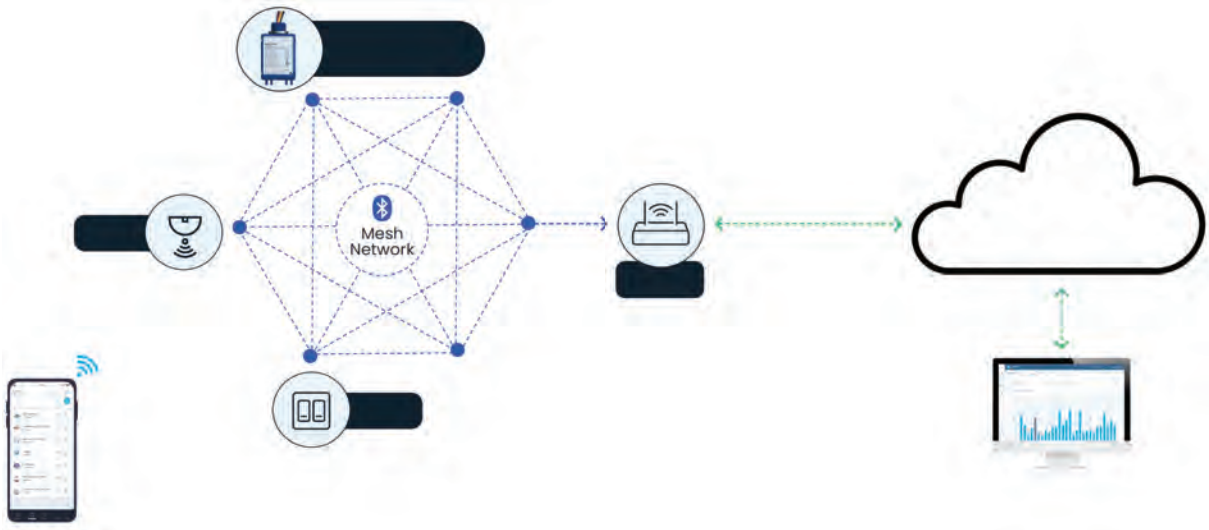
Porta G



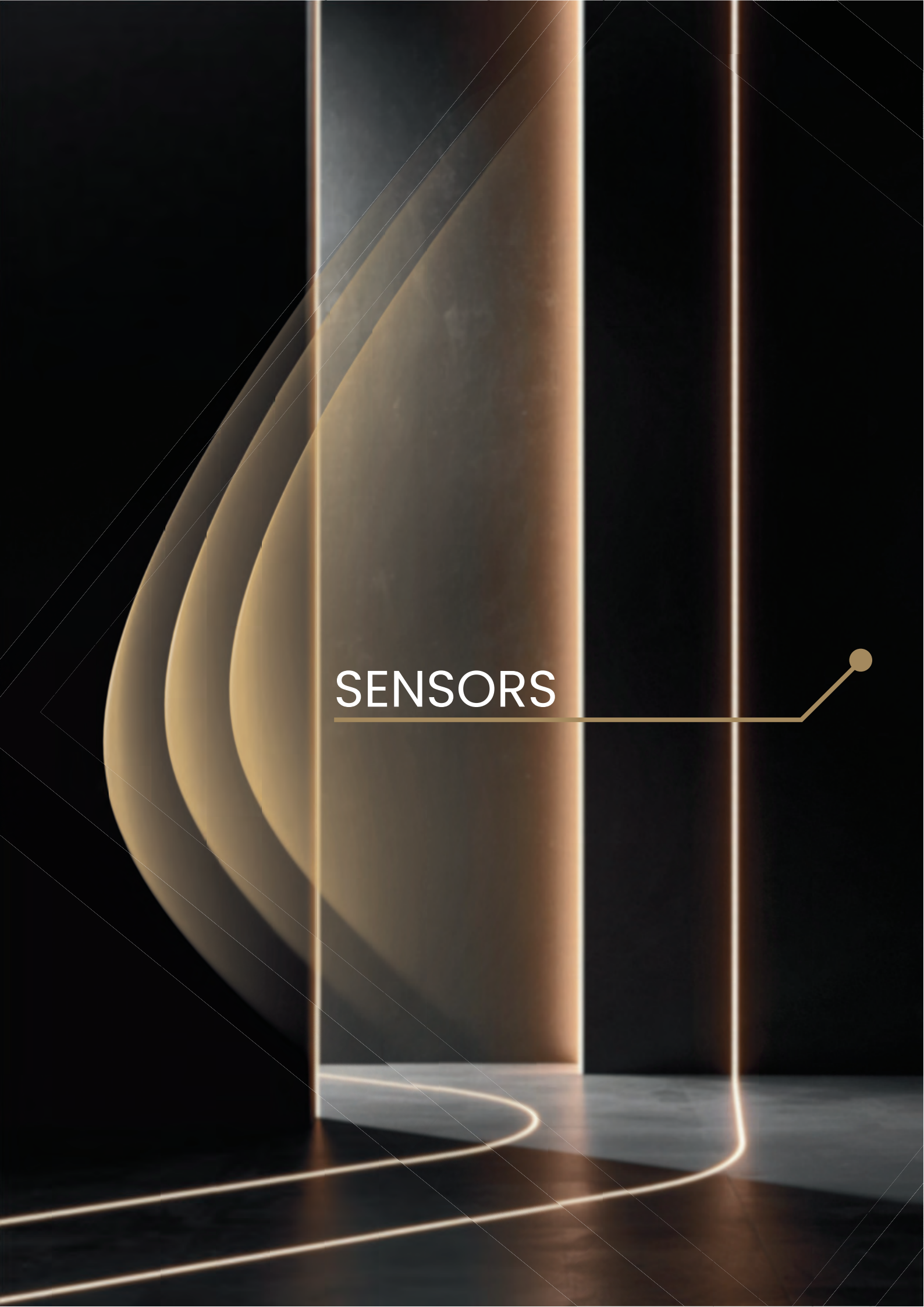


Antenna Information	
Frequency Range	2.4GHz-2.5GHz
Impedance	50Ω nominal
VSWR	1.92:1 max
Return Loss	-10dB max
Gain (peak)	1.5dBi
Cable Loss	0.3dBi max
Polarization	Linear

- Connect to cloud service through gateway



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SENSORS

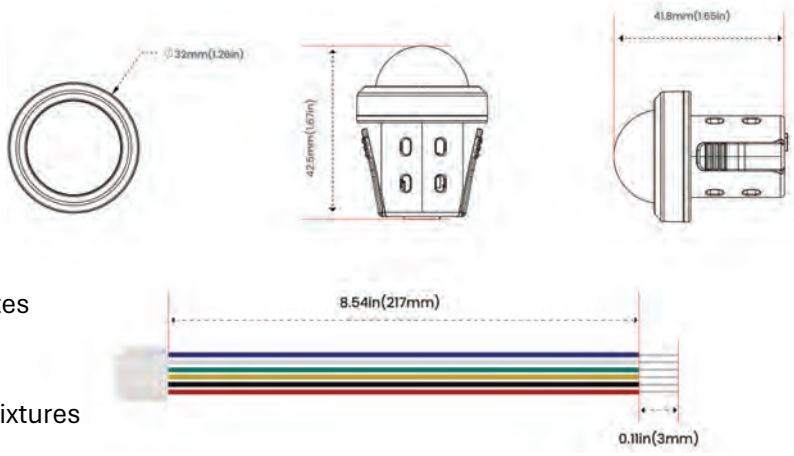
Iris-F

DC Powered Fixture Mount Dual Channel Dimming Motion & Light Sensor

Functional Description



Iris-F is a compact, DC-powered fixture-mount dual-channel dimming motion and light sensor designed for intelligent lighting control. The device combines low-bay PIR motion detection and ambient light sensing with two independent 0-10V output channels for intensity and correlated color temperature (CCT) control.
Designed for direct integration into lighting fixtures, Iris-F provides wireless BLE 5.2 communication. Its compact form factor allows it to be integrated into recessed, linear, troffer and pendant fixtures, including installation within the lens or extrusion.
Iris-F can be commissioned, configured and controlled through the Qalium-based control ecosystem and supports wireless communication with other connected control devices.



Design Notes

- Low-bay PIR motion and ambient light sensing
- Dual-channel 0-10V Class 2 dimming output for intensity and CCT control
- Compact fixture-mount form factor
- BLE 5.2 based wireless communication
- Zero-downtime Over-the-Air (OTA) firmware updates
- Motion detection range up to 10m (32.8ft)
- Designed for installation inside lighting fixtures
- Suitable for recessed, linear, troffer and pendant fixtures

Specification

Electrical	
Input Voltage	12-24VDC
Input Current	30mA
Rated Input Current	25mA @ 24VDC

Bluetooth	
Frequency Range	2402-2480MHz
Max Output Power	8dBm
Receive Sensitivity	-95dBm
Max device-device Distance	45m (147.6ft) vary depends on environment

Output	
Number of Channels	2
Voltage Range	0-10Vdc ±0.2V
Source Current per Channel	15mA
Aux. Output Current	max 200mA
Dimming Range	0-100%, 1000 steps
Dimming Curve	Linear (default) / logarithmic

Environment	
Operating Temperature	0-3Vdc
Storage Temperature	1mA
Case Temperature	47.6°C (117.6°F)
Relative Humidity	85%

Physical	
Dimension and Weight	32 × 42.5mm (1.26 × 1.67in) 14g (0.49oz)
Flammability Rating	UL 94 V-0

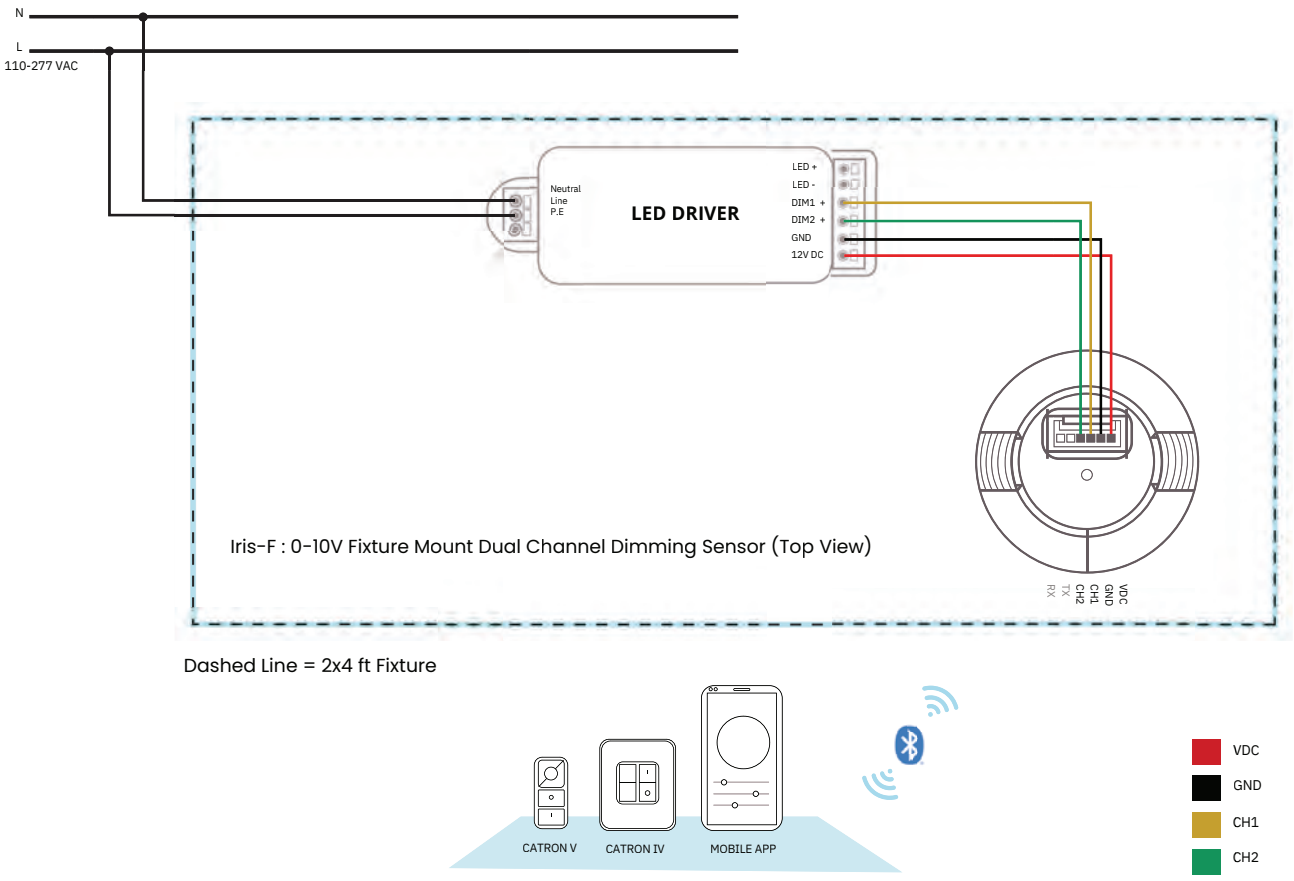
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Wiring Diagram



Pin	Symbol	Color	Description
1	VDC	Red	12-24VDC for sensor power
2	Ground	Black	GND
3	CH1+ 0-10V	Yellow	Intensity
4	CH2+ 0-10V	Green	CCT
5	Tx	White	Internal Use
6	Rx	Blue	Internal Use

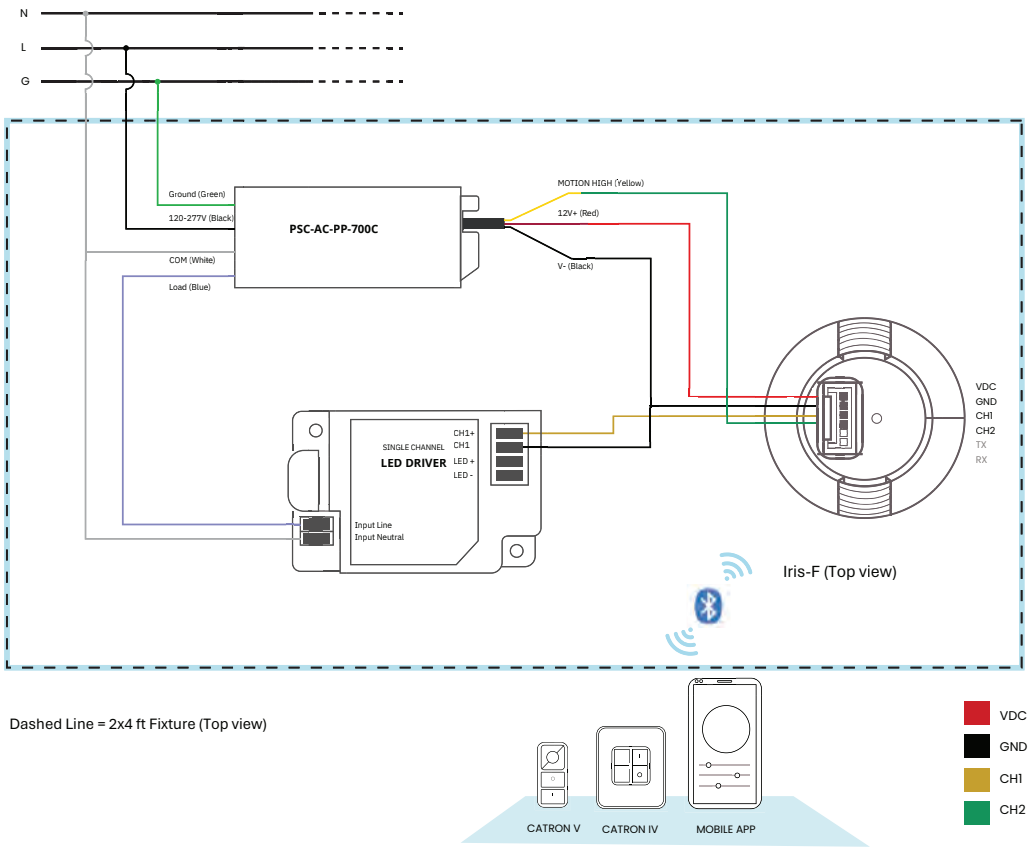
Powering the Iris-F via 12VDC auxiliary output from a driver



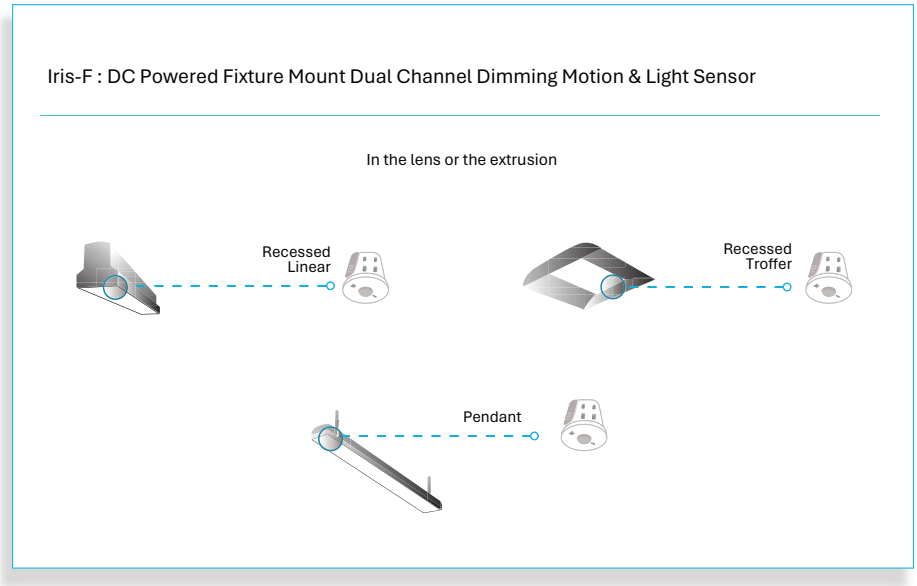
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Powering the Iris-F via powerpack

Set the output mode of the Iris-F as 'Single Channel' in the mobile application.



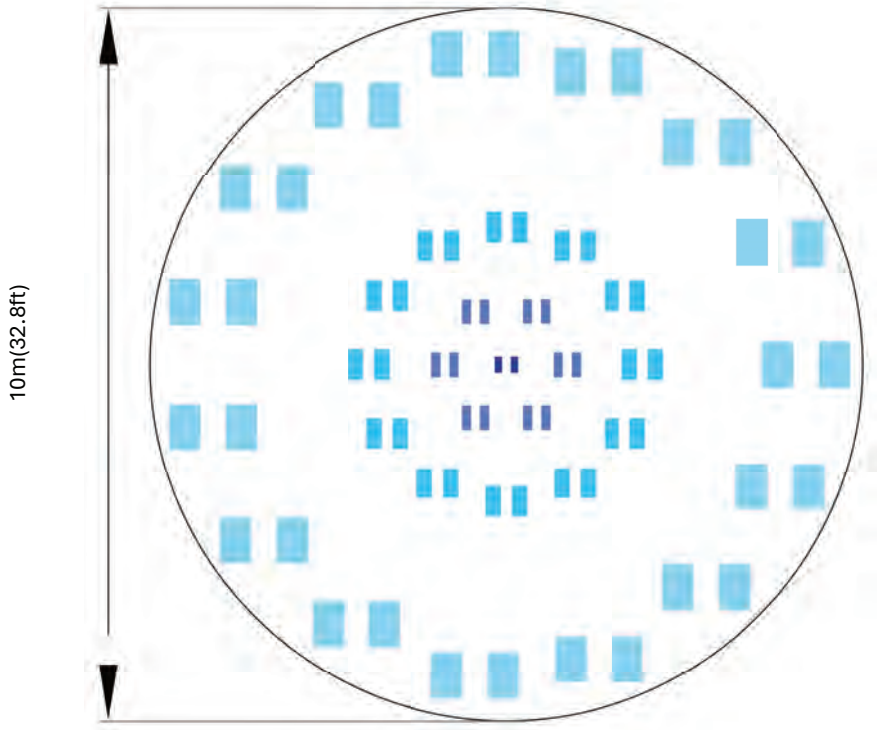
Powering the Iris-F via powerpack



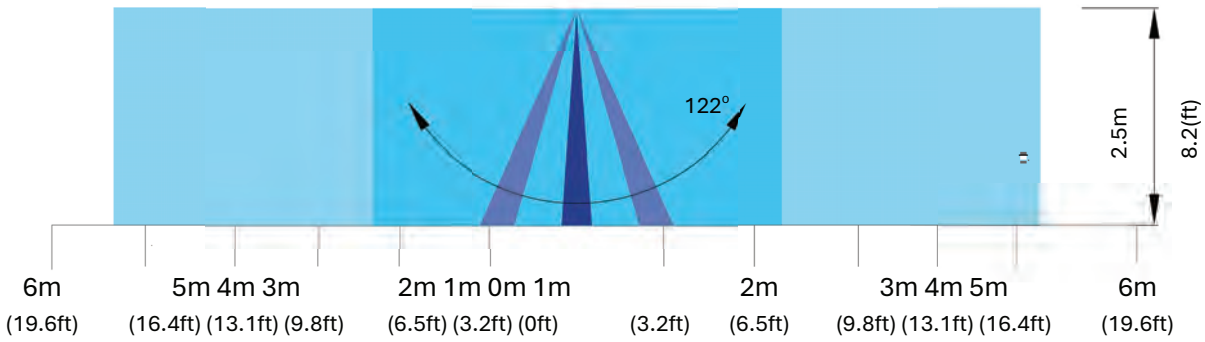
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PIR sensor characteristics

Top View

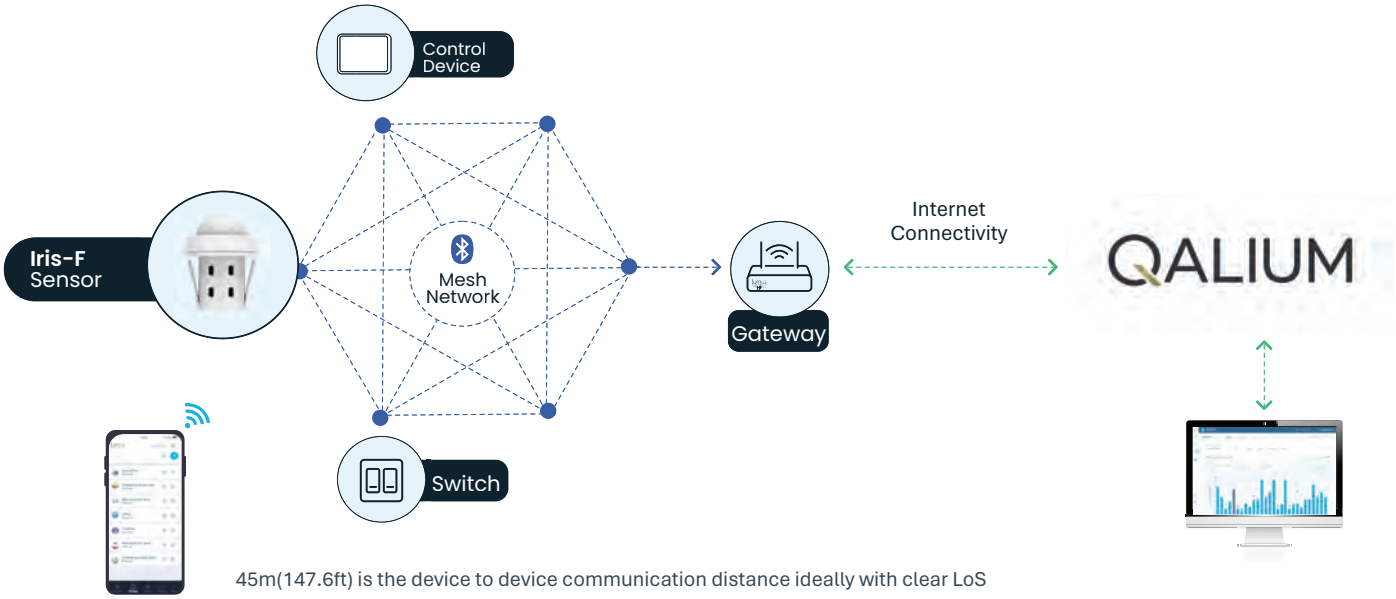


Side View



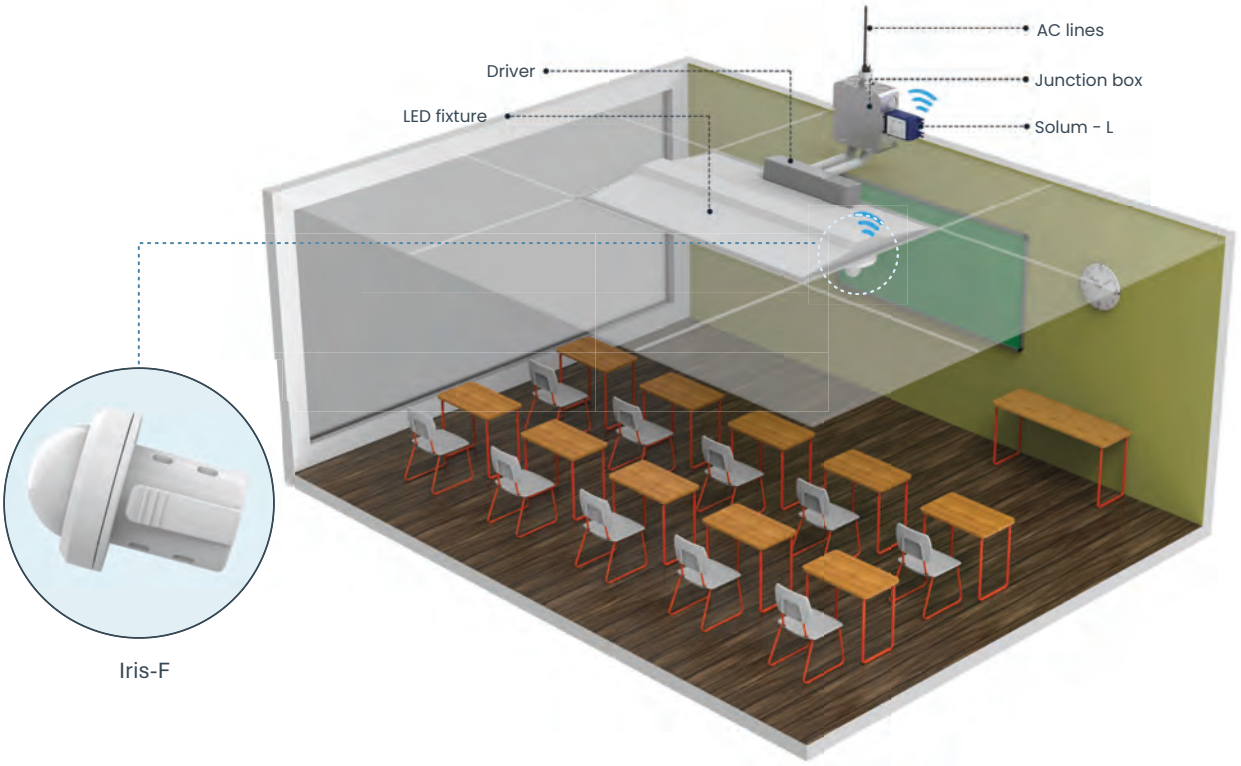
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Smart Ecosystem



45m(147.6ft) is the device to device communication distance ideally with clear LoS

Application



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