

## LOW VOLTAGE CEILING GRID SYSTEM

2018

IN PARTNERSHIP WITH **Armstrong**  
CEILING SOLUTIONS

# AUDACY®

WIRELESS LIGHTING CONTROL

YOUR WORLD IN A BETTER LIGHT





Lighting sets the scene, heightens the mood, reinforces an attitude. It highlights the big, it brings the small to life. And when it's the perfect complement to the moment, it's seamless. It's intuitive. It's Audacy® — advanced wireless lighting control that changes your space. It's packed with smart technology and can be controlled from anywhere with just a tap. That's how we give you the power to see your space, **YOUR WORLD IN A BETTER LIGHT.**





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#### SMART & VERSATILE

The Audacy and Armstrong® Ceilings DC FlexZone™ Ceiling Grid System has been installed at top businesses around the country, from banks and hospitals to architecture firms and schools.





## INTRODUCING THE REVOLUTIONARY PARTNERSHIP BETWEEN AUDACY + ARMSTRONG CEILINGS

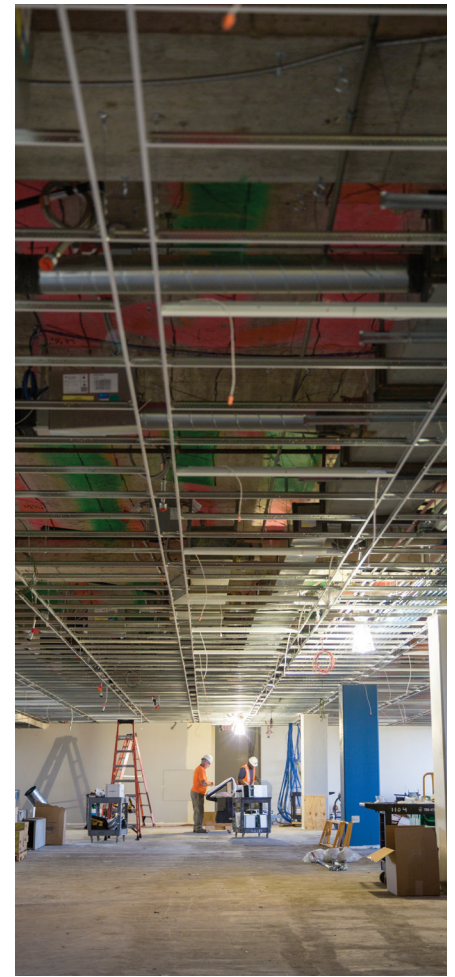
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### THE LOW VOLTAGE CEILING GRID SYSTEM

Audacy has teamed up with Armstrong Ceilings, bringing wireless lighting control together with high-performance, low voltage suspension ceilings that make it simple to change and update your lighting layouts.

The ceiling grid is powered, so you connect a power supply just once — not every time you need to add lighting — and lit panels that can easily switch positions.






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The Audacy + Armstrong Ceilings DC FlexZone Ceiling Grid System has been installed in top companies and office spaces across the country, from investment banks to research labs (shown here).

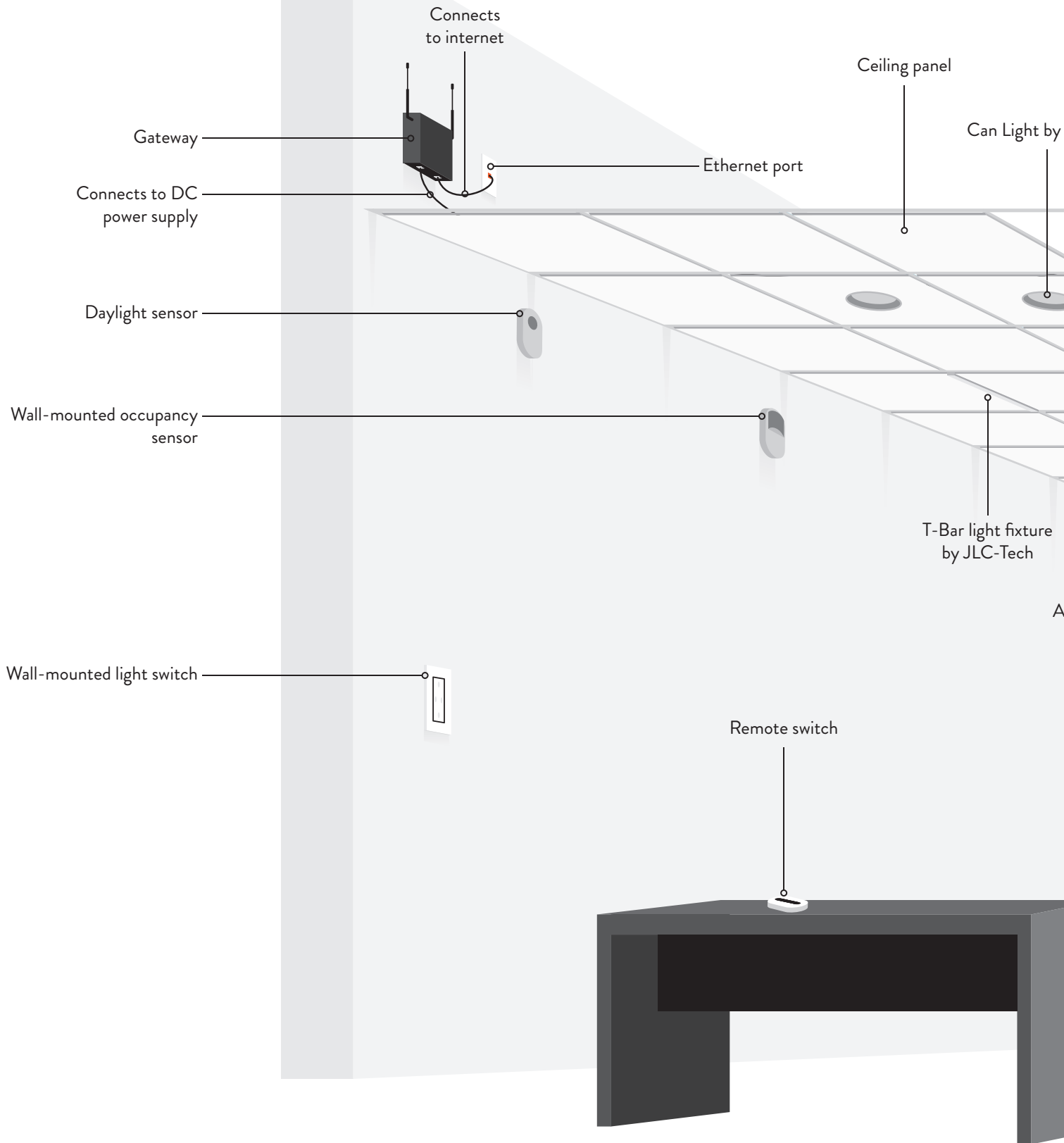
Our Audacy-branded custom light fixtures as well as our partnerships with JLC-Tech, Selux, Pathway and more give you the ability to completely tailor the look of your lighting. It's a flexible system you can retrofit, install or adjust in a fraction of the time, saving you energy and money.

Whether it's commercial or industrial, education or retail,

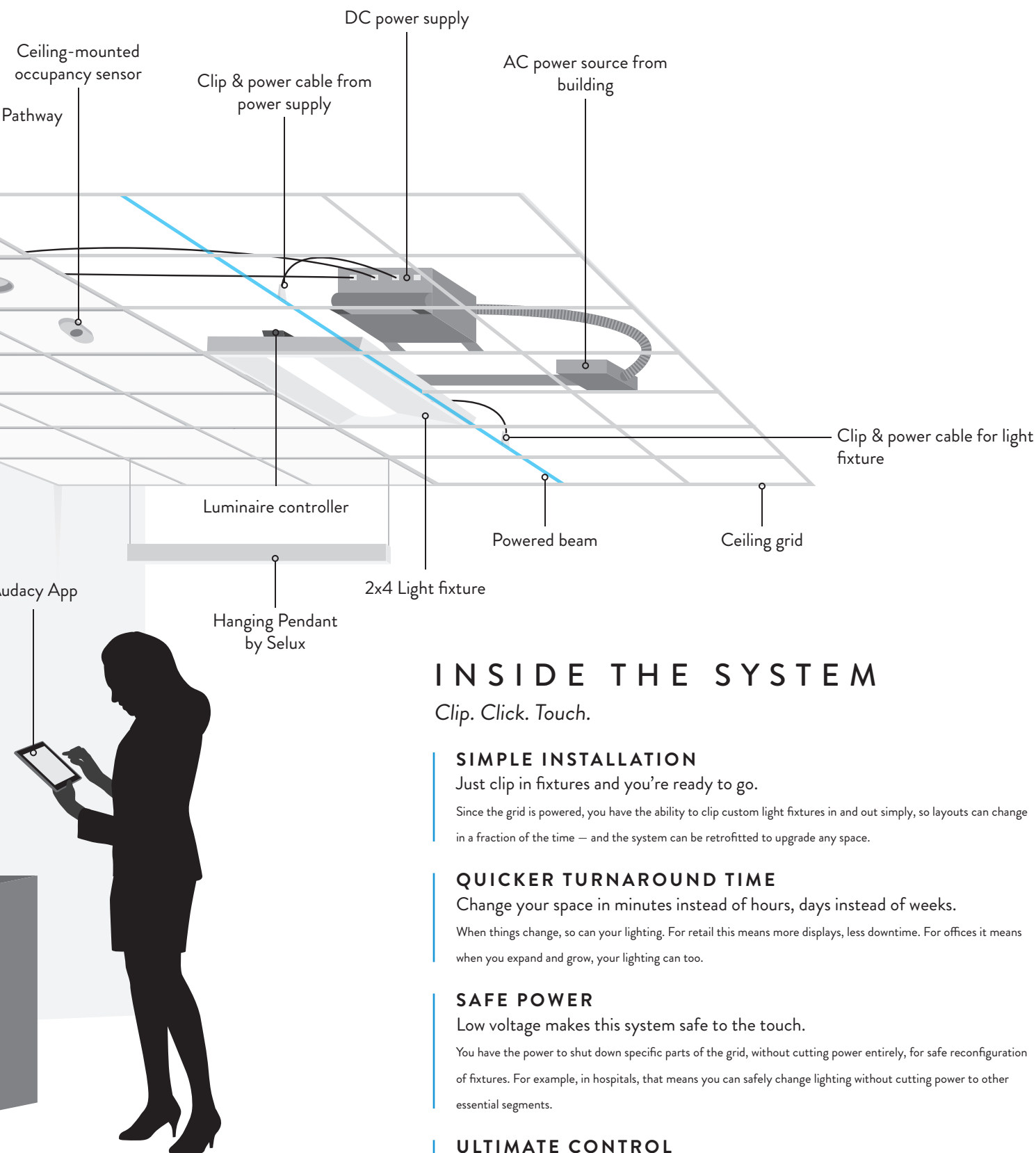
healthcare or entertainment, this system has the ability to upgrade your space. It's the smart system that takes schedules, ambient light and occupancy into account to provide ideal lighting levels for every occasion, using safe, cost-efficient low voltage power.

Together, we are committed to advancing lighting technology and setting the standard for quality solutions.









## INSIDE THE SYSTEM

*Clip. Click. Touch.*

### SIMPLE INSTALLATION

Just clip in fixtures and you're ready to go.

Since the grid is powered, you have the ability to clip custom light fixtures in and out simply, so layouts can change in a fraction of the time — and the system can be retrofitted to upgrade any space.

### QUICKER TURNAROUND TIME

Change your space in minutes instead of hours, days instead of weeks.

When things change, so can your lighting. For retail this means more displays, less downtime. For offices it means when you expand and grow, your lighting can too.

### SAFE POWER

Low voltage makes this system safe to the touch.

You have the power to shut down specific parts of the grid, without cutting power entirely, for safe reconfiguration of fixtures. For example, in hospitals, that means you can safely change lighting without cutting power to other essential segments.

### ULTIMATE CONTROL

Control lighting with the intuitive Audacy app, compatible across mobile platforms.

You can also automate lighting scenes so your rooms can shift to respond to your building schedule.





Audacy offers a range of custom light switches, offering different features. In addition to the intuitive app, users can always maintain local control.

## THE AUDACY EFFECT

SEE ALL THE WAYS AUDACY CAN SAVE YOU TIME, ENERGY AND MONEY.

### QUICKER INSTALLATION

#### & CONFIGURATION

AUDACY INSTALLATION CAN TAKE UP TO 85% LESS TIME THAN COMPETITORS.

Faster and easier to install, you save time and costs associated with build-out and renovation.

Requires fewer people and fewer man hours, lowering costs.

Like installation, switching lighting configurations is quick and simple, resulting in minimal downtime.

### MORE EFFICIENT

#### ENERGY USAGE

STREAMLINED FEATURES GIVE YOU 24/7 CONTROL AND SAVE ENERGY COSTS OVER TIME.

Harvest as much daylight as possible by setting minimum or required light levels.

Minimize energy use in empty rooms using the system's motion sensors.

Schedule lights and plug loads based on your designated work hours.

Dim or brighten any room or room group remotely at any time.

### FUTURE-PROOF DESIGN

BATTERY OPERATED DEVICES HAVE UP TO A 25-YEAR MAINTENANCE-FREE LIFE

Every Audacy component is designed for easier system modification over time, ensuring next-generation utility.

Smartphone and tablet compatibility.

Integration with Building Automation Systems ensures future system compatibility.





## EXPERIENCE AUDACY

Audacy is advanced wireless lighting control that changes your space. And they've teamed up with Armstrong Ceilings to give you the most advanced ceiling and lighting solution out there. It's a system designed to be as future-proof as it is innovative, giving you the power to see your world in a better light.

GETTING  
STARTED

EXPLORE THE SYSTEM AT [AUDACYWIRELESS.COM](http://AUDACYWIRELESS.COM)

OR CALL US TODAY FOR A CONSULTATION.

1.800.273.9989



Each Gateway is an electronic communications device that acts as the central processing hub of the Audacity® Wireless Controls system, providing 24/7 back-and-forth communication between your Audacity Interface and onsite lighting environments.

## HOW IT WORKS

The Gateway wirelessly sends lighting commands – as established via your Audacity Interface – to any light fixture equipped with an Audacity Luminaire Controller. In this way, the Gateway communicates with up to **250** system-enabled fixtures to ensure selected lights turn on, turn off or dim where and when you desire.

## KNOW MORE - SPEND LESS

Each Gateway wirelessly receives and prioritizes inputs from onsite sensors, switches and Building Automation Systems. Information such as sensor data, fixture status, user overrides and energy usage is then relayed back to your Audacity Interface where it is available for your periodic review. The Audacity Gateway allows you to easily understand, via the online Interface, evolving light usage patterns. From there it's easy to adjust and maximize your system and your energy efficiency over time.

The Audacity Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

## AUDACITY BY IDEAL®: CUTTING COSTS. CUTTING EDGE.

IDEAL has been a leading manufacturer of quality electrical products for over one hundred years. Crafted at the intersection of simple and innovative, our new Audacity Wireless Controls system.

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# GATEWAY

GW1100



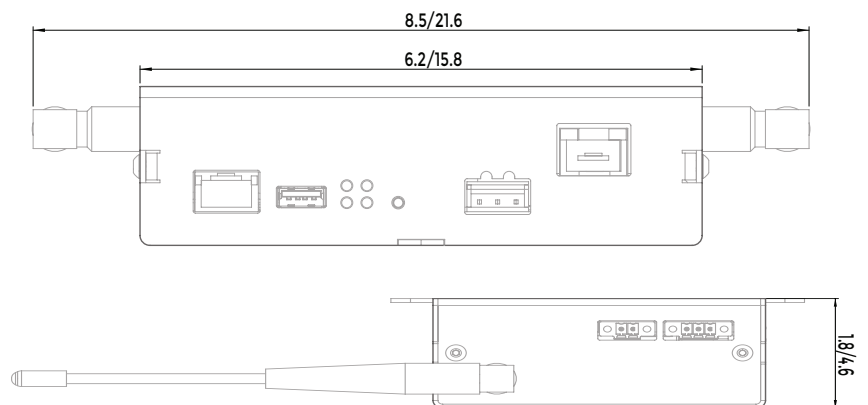
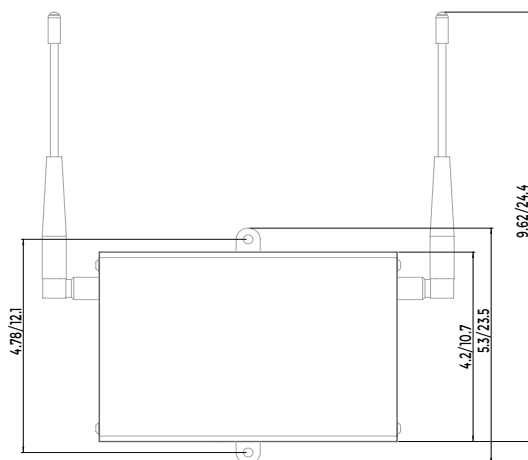
On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Dual External Antennas
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXGW1100B IC: 11250A-GW1100B UL916, Tested to UL 2043 for use in Plenum Spaces
Transmit Power	22 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	300 ft. (90 m) indoors to an Audacy Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Repeater Mode	Enabled via Audacy Interface or Gateway
Input Voltage	24V AC/DC, removable terminal block
Configuration/Network Port	Ethernet
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 122°F (-20°C to 50°C)
Installation Environment	Indoor use only
Mounting	2 mounting holes—vertical (wall-mount) or horizontal
Enclosure	Sheet Metal, UL 2043 plenum rated
Color	Black
Dimensions	8.5" x 5.3" x 1.8", excluding antennas (215.9mm x 134.6mm x 45.7mm)
Weight	16.2 oz (459g)
Warranty	5 year

Catalog Number	59-GW1100-ETHER	59-GW1100-BACIP	59-GW1100-BACMS	59-GW1100-MODTC	59-GW1100-MODRT	59-GW1100-LON	59-GW1100-META
Description	Standalone (i.e., no BAS)	BACNet® IP	BACNet® MSTP	Modbus TCP	Modbus RTU	LonWorks®	Metasys® N2

## MECHANICAL DIMENSIONS (INCHES/CM)



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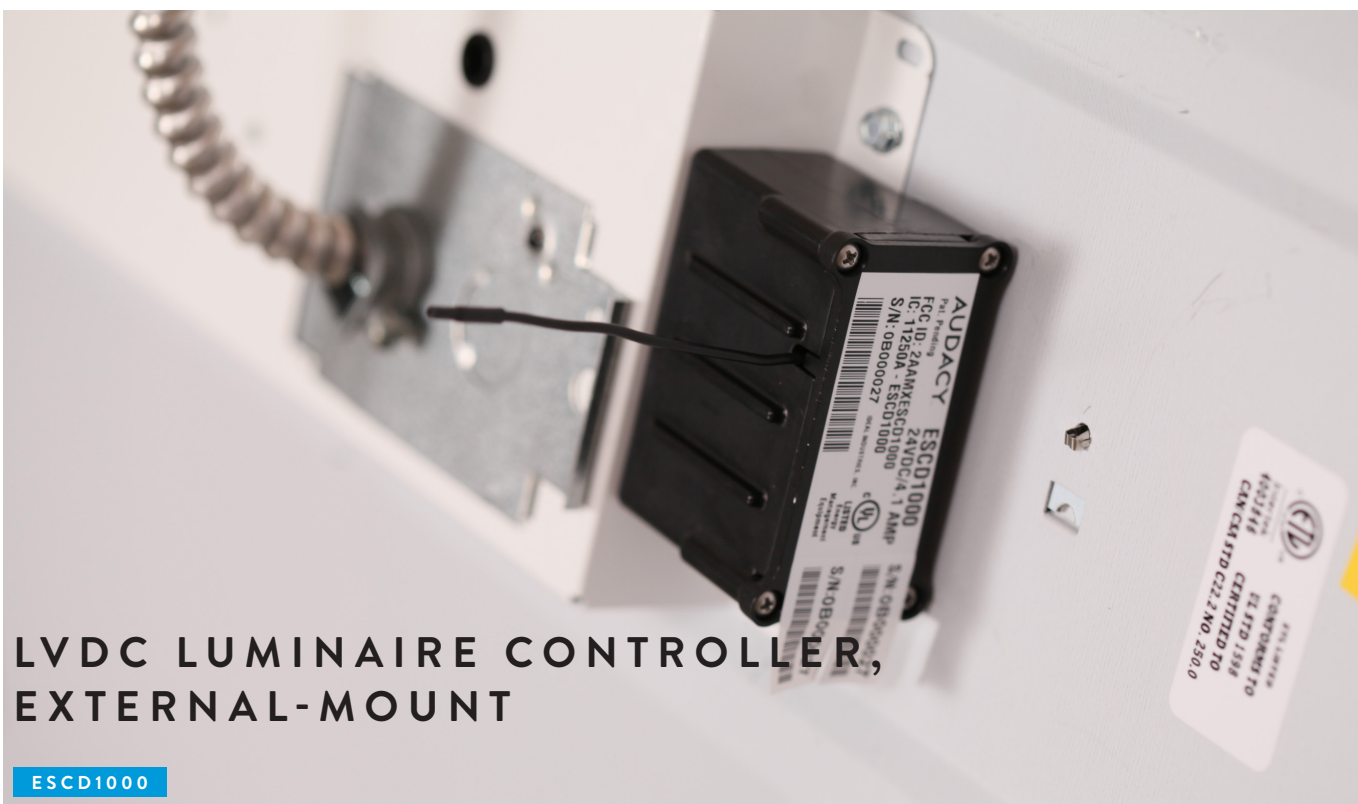
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## LVDC LUMINAIRE CONTROLLER, EXTERNAL-MOUNT

ESCD1000

The Audacy® Low Voltage DC Luminaire Controller is a DC-powered, wireless lighting control device. The ESCD1000 is a module that can turn on, turn off and provide 0-10 V dimming signal to a 24V DC dimming LED driver. The ESCD1000 quickly and easily installs using the knock-out on a fixture and provides the ability to control individual fixtures.

### HOW IT WORKS

Audacy Luminaire Controllers operate in the highly reliable 915 MHz spectrum. Your electrical installer mounts this Luminaire Controller to a junction box through a knockout, and the wiring is completed inside the box. The typical range for Luminaire Controllers is within 300 feet of the Gateway. And with the repeater mode enabled, the range is extended even farther.

### BECAUSE TIME IS MONEY

A typical wired system is vastly more labor intensive and costly to install. The Audacy Luminaire Controllers get your system up and operational faster and can be modified over time with incredible ease.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# LVDC LUMINAIRE CONTROLLER, EXTERNAL-MOUNT

ESCD1000

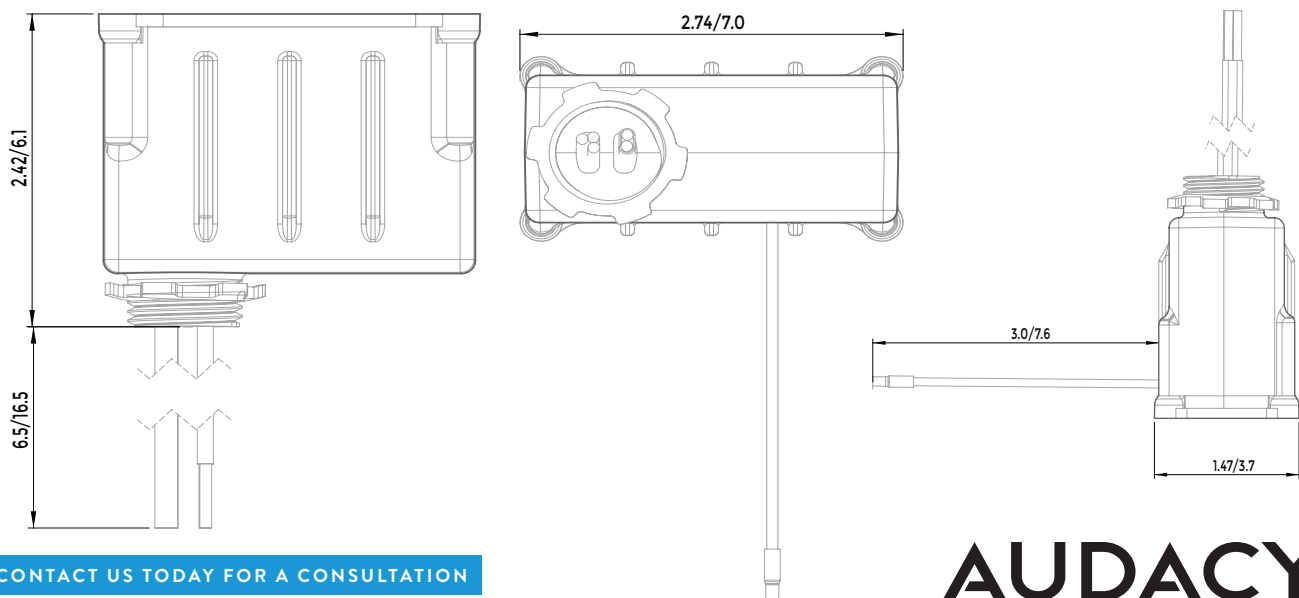


On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Integrated Wire Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada   FCC ID: 2AAMXESCD1000 IC: 11250A-ESCD1000 UL 916 (Energy Management Equipment), UL 2108, UL1598B Rating CSA-C22.2 No. 205-12, Signal Equipment
Transmit Power	18 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	300 ft. (90 m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Input Voltage	24VDC
Rated Current	4.1A
Rated Load Wattage	100W@24VDC
Operating Temperature	50°F to 158°F (10°C to 70°C)
Installation Environment	Indoor use only
Mounting	Directly to junction box or fixture via 1/2" knockout
Dimming Wire Placement	Within nipple for internal connection
Color	Black
Dimensions	2.74" x 2.42" x 4.2", antenna fully extended (69.6mm x 61.5mm x 106.7mm)
Weight	4.6 oz (130.4g)
Warranty	5 year
Catalog Number	59-ESCD1000
Description	Audacy® LVDC Luminaire Controller, External-Mount

## MECHANICAL DIMENSIONS (INCHES/CM)



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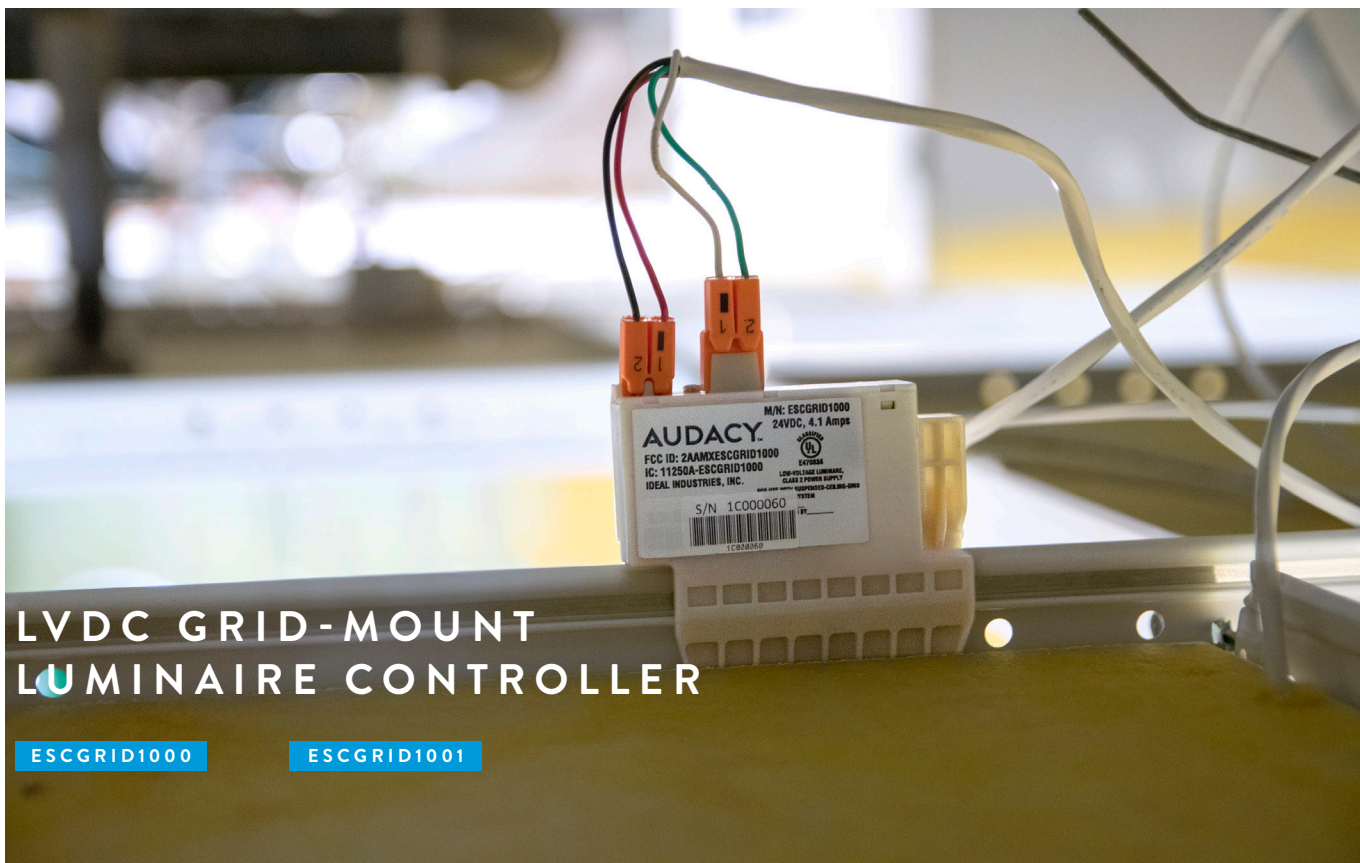
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## LVDC GRID-MOUNT LUMINAIRE CONTROLLER

ESCGRID1000

ESCGRID1001

The Audacy® Low Voltage DC (LVDC) Grid-Mount Luminaire Controllers are 24V DC-powered, wireless lighting control devices. Operating in the highly reliable 915 MHz spectrum, the ESCGRID1000 is a module that can turn on, turn off and provide a PWM dimming signal to a 24V DC constant voltage LED fixture. The ESCGRID1001 is a module that can turn on, turn off and provide a 0-10V dimming signal to a 24V DC constant voltage LED fixture. The controllers provide the ability to control individual fixtures.

### WE TRUST IN OUR PARTNERS

The LVDC Grid-Mount Controller is an essential part of the combined Audacy and Armstrong® Ceilings LVDC solution and connects seamlessly to the crossbeam of an Armstrong Ceilings DC FlexZone™ Energized Ceiling Grid.

### BECAUSE TIME IS MONEY

As with all Audacy Wireless Controls system components, the Audacy LVDC Grid-Mount Controller vastly reduces installation time and costs in Low Voltage DC applications versus a typical wired system alternative.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# LVDC GRID-MOUNT LUMINAIRE CONTROLLER

ESCGRID1000

ESCGRID1001



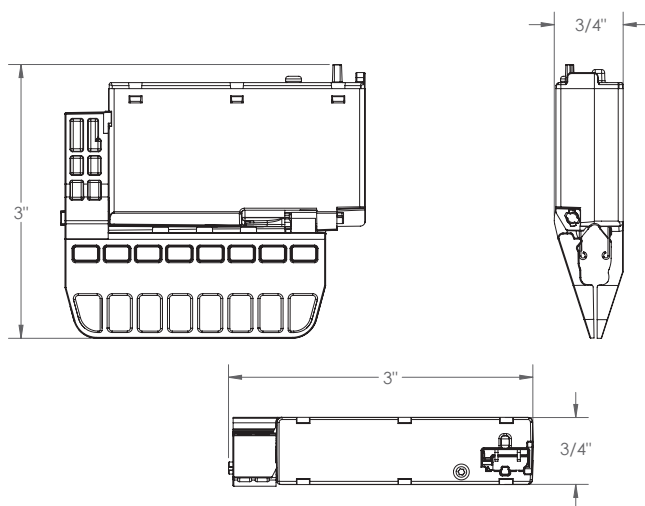
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## SPECIFICATIONS

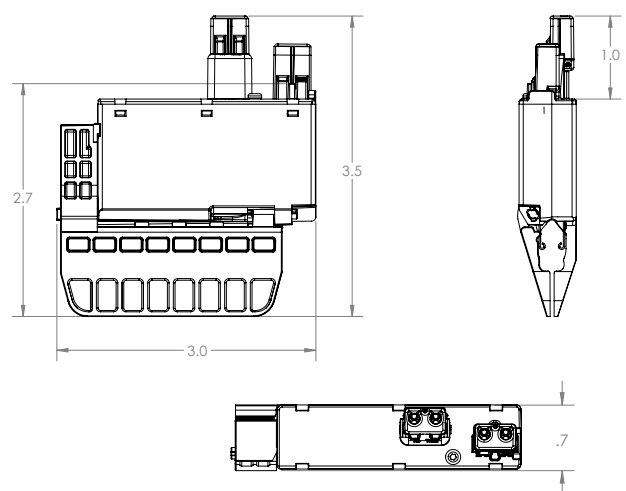
ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Integrated Wire Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXESCGRID1000(1001) IC: 11250A-ESCGRID1000(1001) UL2577, UL2043 (Plenum Rated)
Transmit Power	18 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	300 ft. (90 m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Input Voltage	24VDC
Rated Current	4.1A
Rated Load Wattage	100W@24VDC
Operating Temperature	50°F to 158°F (10°C to 70°C)
Installation Environment	Indoor use only
Mounting	Directly to DC FlexZone™ Grid
Fixture Wire Placement	2 conductors from fixture will connect using IDEAL 182s male connector
Color	Tan
Dimensions	3" x .75" x 3" (76.2mm x 19.05mm x 76.2mm)
Weight	1.6 oz (45.4g)
Warranty	5 year
Catalog Number	59-ESCGRID1000/59-ESCGRID1001
Description	PWM LVDC Grid-Mount Luminaire Controller/0-10V LVDC Grid-Mount Luminaire Controller

## MECHANICAL DIMENSIONS (INCHES)

### ESCGRID1000



### ESCGRID1001



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## CEILING-MOUNT MOTION SENSOR

VSC1300

The Ceiling-Mount Motion Sensor is a battery-powered, passive infrared motion sensor that can be used to detect occupancy and/or vacancy, and turn on, turn off or dim lights based on preferences input into the Audacy system. The VSC1300 requires no wiring and has a 25-year battery life.

### HOW IT WORKS

The Audacy Ceiling-Mount Motion Sensors detect movement via sensitive infrared technology and then relay commands – based on intervals of absence or activity – to system-enabled fixtures. Operating in the highly reliable 915 MHz spectrum, the Ceiling-Mount versions of the Audacy Motion Sensors require no wiring and can be placed virtually anywhere a motion sensor is desired, for convenience or coverage.

### PEOPLE MOVE - LIGHT SHOULD TOO

Your inputs to the Audacy Interface inform the system that determines which groups of light fixtures – equipped with Audacy Luminaire Controllers – can turn off/on, dim or brighten based on employee migration throughout the day.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# CEILING-MOUNT MOTION SENSOR

VSC1300

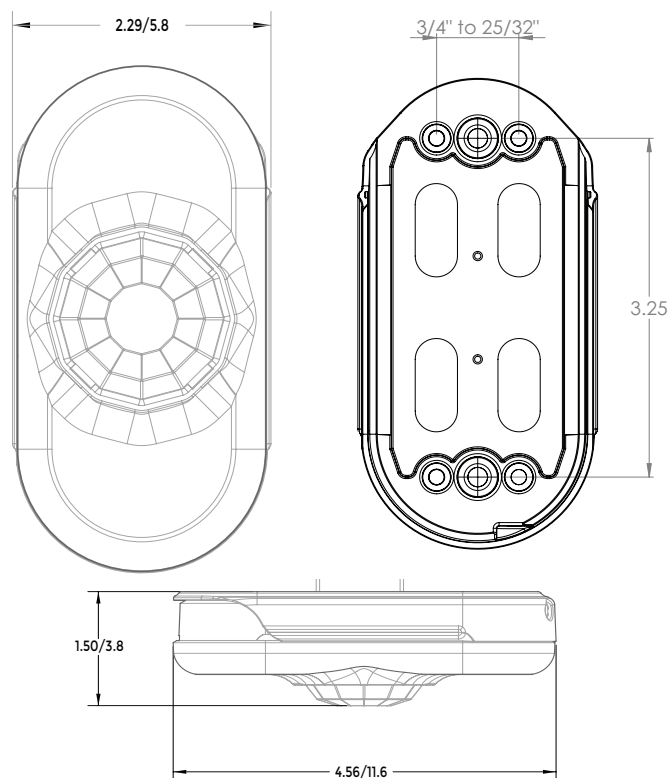


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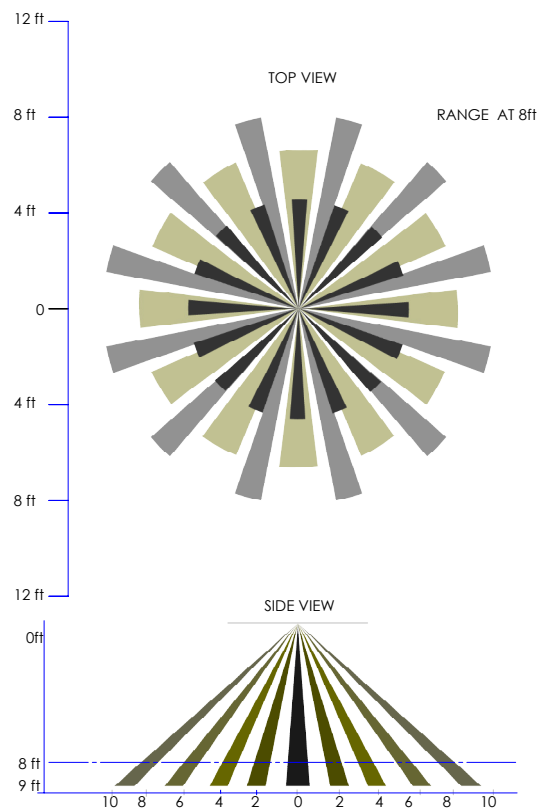
## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXVSC1300 IC: 11250A-VSC1300
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Coverage Area	500 sq ft. (46.5 m <sup>2</sup> )
Power	25+ year battery, non-replaceable
Operating Temperature	10°C to 32°C (50°F to 90°F)
Sensor Technology	Passive Infrared
Installation Environment	Indoor use only
Mounting	2 bracket mounting holes (See mechanical drawing for dimensions)
Color	White
Dimensions	4.56" x 2.29" x 0.95" (115.82mm x 58.17mm x 24.13mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-VSC1300
Description	Audacy® Ceiling-Mount Motion Sensor

## MECHANICAL DIMENSIONS (INCHES/CM)



## COVERAGE PATTERN



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## WIDE-RANGE CEILING-MOUNT MOTION SENSOR

VSC1301

The Wide-Range Ceiling-Mount Motion Sensor is a battery-powered, passive infrared motion sensor that can be used to detect occupancy and/or vacancy, and turn on, turn off or dim lights based on preferences input into the Audacity system. The VSC1301 requires no wiring and has a 25-year battery life.

### HOW IT WORKS

The Audacity Ceiling-Mount Motion Sensors detect movement via sensitive infrared technology and then relay commands – based on intervals of absence or activity – to system-enabled fixtures. Operating in the highly reliable 915 MHz spectrum, the Ceiling-Mount versions of the Audacity Motion Sensors require no wiring and can be placed virtually anywhere a motion sensor is desired, for convenience or coverage.

### PEOPLE MOVE - LIGHT SHOULD TOO

Your inputs to the Audacity Interface inform the system that determines which groups of light fixtures – equipped with Audacity Luminaire Controllers – can turn off/on, dim or brighten based on employee migration throughout the day. Compared to the VSC1300, the VSC1301 has a coverage area of approximately 1500 square feet.

The Audacity Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# WIDE-RANGE CEILING-MOUNT MOTION SENSOR

VSC1301

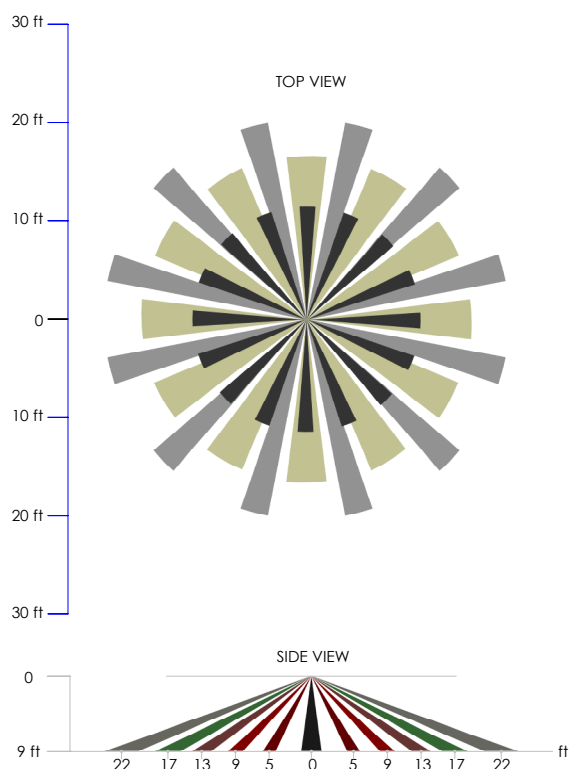


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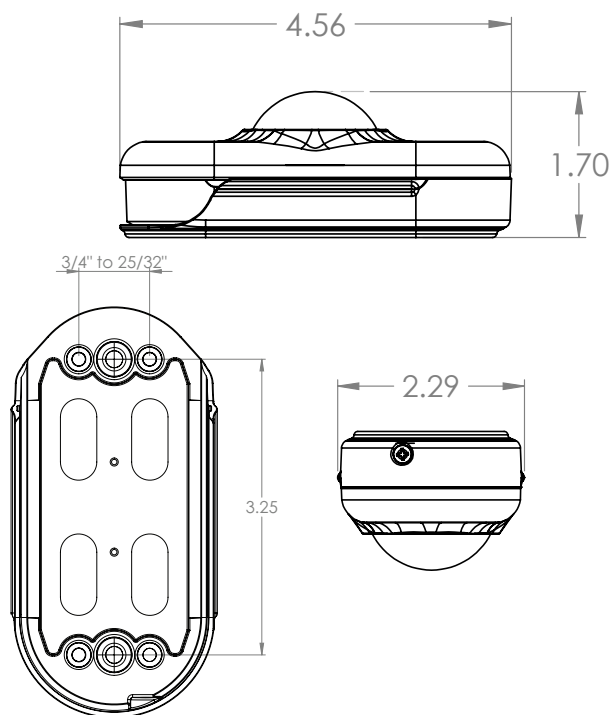
## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXVSC1301 IC: 11250A-VSC1301
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Coverage Area	1500 sq ft. (140m <sup>2</sup> )
Power	25+ year battery, non-replaceable
Operating Temperature	10°C to 32°C (50°F to 90°F)
Sensor Technology	Passive Infrared
Installation Environment	Indoor use only
Mounting	2 bracket mounting holes (See mechanical drawing for dimensions)
Color	White
Dimensions	4.56" x 2.29" x 0.95" (115.82mm x 58.17mm x 24.13mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-VSC1301
Description	Audacy® Wide-Range Ceiling-Mount Motion Sensor

## COVERAGE PATTERN



## MECHANICAL DIMENSIONS (INCHES)



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## WALL-MOUNT MOTION SENSOR

VSW1300

The Wall-Mount Motion Sensor is a battery-powered, passive infrared motion sensor that can be used to detect occupancy and/or vacancy, and turn on, turn off or dim lights based on preferences input into the Audacy system. The VSW1300 requires no wiring and has a 25-year battery life.

### HOW IT WORKS

The Audacy Wall-Mount Motion Sensors detect movement via sensitive infrared technology and then relay commands – based on intervals of absence or activity – to system-enabled fixtures. Operating in the highly reliable 915 MHz spectrum, the Wall-Mount versions of the Audacy Motion Sensors require no wiring and can be placed virtually anywhere a motion sensor is desired, for convenience or coverage.

### PEOPLE MOVE - LIGHT SHOULD TOO

Your inputs to the Audacy Interface inform the system that determines which groups of light fixtures – equipped with Audacy Luminaire Controllers – can turn off/on, dim or brighten based on employee migration throughout the day.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# WALL-MOUNT MOTION SENSOR

VSW1300

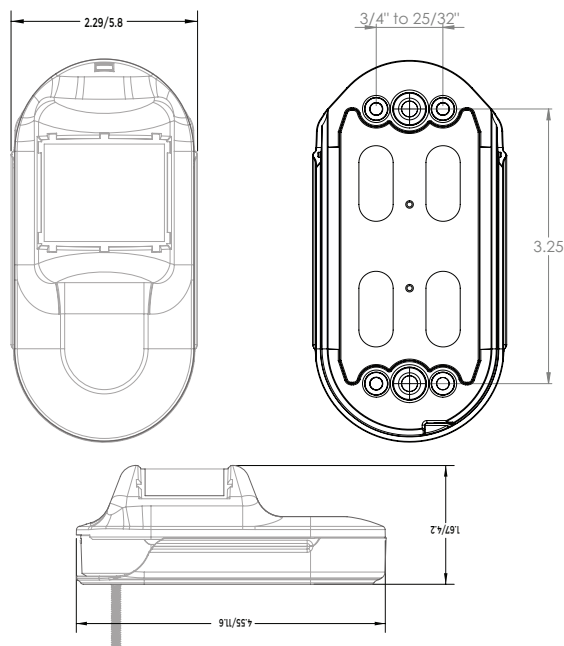


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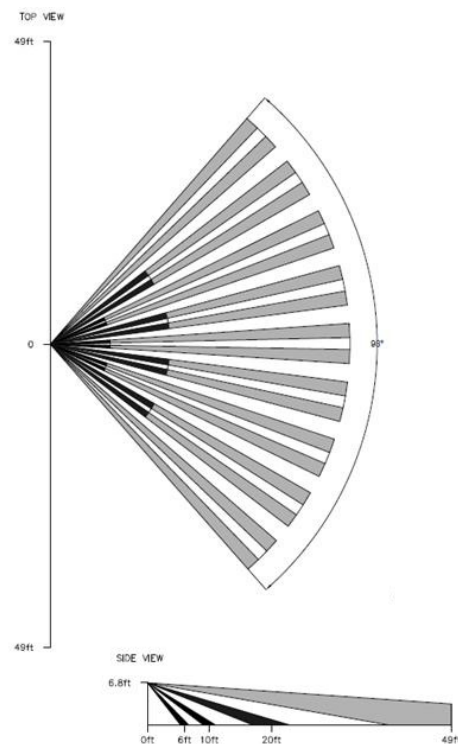
## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXVSW1300 IC: 11250A-VSW1300
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Power	25+ year battery, non-replaceable
Operating Temperature	50°F to 90°F (10°C to 32°C)
Sensor Technology	Passive Infrared
Installation Environment	Indoor use only
Mounting	2 bracket mounting holes (See mechanical drawing for dimensions)
Color	White
Dimensions	4.55" x 2.29" x 1.67" (115.82mm x 58.17mm x 24.42mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-VSW1300
Description	Audacy® Wall-Mount Motion Sensor

## MECHANICAL DIMENSIONS (INCHES/CM)



## COVERAGE PATTERN



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## LIGHT SENSOR

LS1400

The Audacy® Light Sensor is used to detect ambient light in a space, providing daylight harvesting capabilities. Operating in the highly reliable 915 MHz spectrum, the Light Sensor requires no wiring, has a 25-year battery life, and wirelessly sends ambient light measurements to the Gateway for closed-loop daylight harvesting operation.

### HOW IT WORKS

Your inputs to the Audacy Interface determine which groups of light fixtures – equipped with Audacy Luminaire Controllers – dim or brighten based on ambient light throughout the day.

### ADAPTABILITY AT YOUR FINGERTIPS

As with all Audacy Wireless Controls system components, the Audacy Light Sensors vastly reduce installation time and costs versus a typical wired system alternative. You even have the flexibility to place it anywhere you choose, because there are no wires to run.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

### AUDACY BY IDEAL®: CUTTING COSTS. CUTTING EDGE.

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# LIGHT SENSOR

LS1400

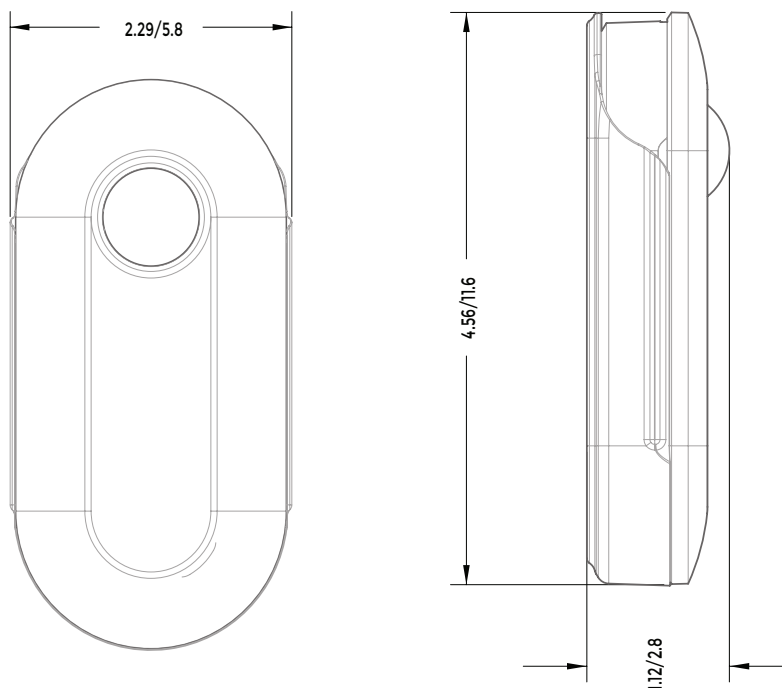


On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXLS1400 IC: 11250A-LS1400
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to Audacy Gateway or Luminaire Controller in typical commercial office building; extended range when repeater mode enabled
Power	25+ year battery, non-replaceable
Operating Temperature	50°F to 90°F (10°C to 32°C)
Light Level	0–2500 lux (0–232 fc)
Installation Environment	Indoor use only
Mounting	2 bracket mounting holes (See mechanical drawing for dimensions)
Color	White
Dimensions	4.56" x 2.29" x 1.12" (115.82mm x 58.17mm x 28.45mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-LS1400
Description	Audacy® Light Sensor

## MECHANICAL DIMENSIONS (INCHES/CM)



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## WALL-MOUNT SWITCH

WMS1200

WMS1201

The Wall-Mount Switch fits into a decorator-style faceplate and can be used to replace an existing switch. The switch requires no wiring, has a 25-year battery life and wirelessly sends commands to control light fixtures equipped with Audacy Luminaire Controllers. The WMS1200 version has On/Off and 0-10V dimming capabilities, while the WMS1201 is just an On/Off switch.

### ADAPTABILITY AT YOUR FINGERTIPS

Used in conjunction with the Audacy Wireless Controls system, the Wall-Mount Switch permits onsite employees to customize their lighting environments by overriding the master inputs of your Audacy Interface. The Wall-Mount Switch turns lights on or off and enables 0-10V dimming.

### BECAUSE TIME IS MONEY

As with all Audacy Wireless Controls system components, the Audacy Wall-Mount Switch vastly reduces installation time and costs versus a typical wired system alternative. And you have the flexibility to place it anywhere you choose because there are no wires to run.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# WALL-MOUNT SWITCH

WMS1200

WMS1201

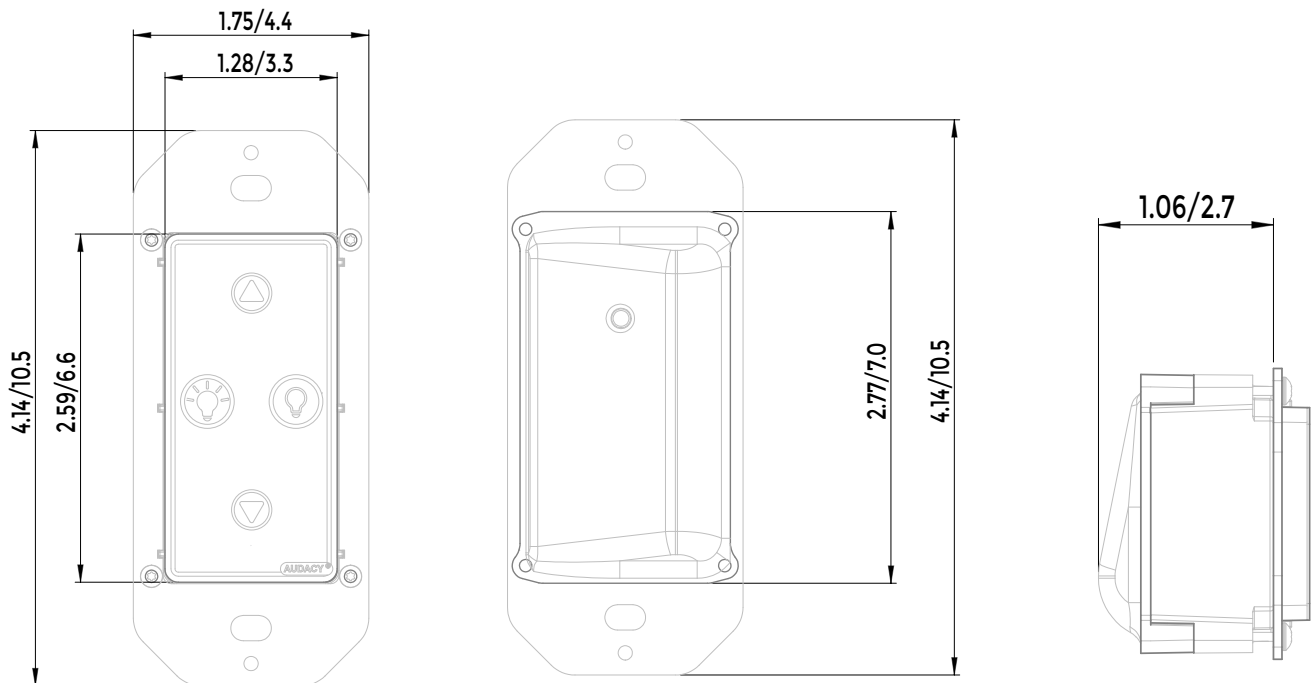


On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXWMS1200 IC: 11250A-WMS1200
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Power	25+ year battery, non-replaceable
Operating Temperature	50°F to 90°F (10°C to 32°C)
Installation Environment	Indoor use only
Mounting	In switch box, decorator-style faceplate
Color	White
Dimensions	4.14" x 1.75" x 0.76" (69.6mm x 61.5mm x 106.7mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-WMS1200/59-WMS1201
Description	Audacy® Wall- Mount Switch/Audacy On-Off Wall-Mount Switch

## MECHANICAL DIMENSIONS (INCHES/CM)



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## SCENE SWITCH

WSS1200

A time and energy-saving alternative to the traditional hard-wired switch, the Audacy® Scene Switch allows you to quickly “set the scene” with pre-calibrated settings for a particular room. Instantly adjust lighting to fit how you’ll use the space with presets such as Presentation Setting for viewing a screen or Work Setting to maximize lighting for reviewing important documents.

### MORE CONTROL - LESS FUSS

The Audacy Scene Switch permits onsite employees to instantly adjust their lighting environment to the purpose at hand with up to 4 physical preset settings and up to 16 Interface settings.

### DOUBLE-EDGED EFFICIENCY

Operating in the highly reliable 915 MHz spectrum, our Scene Switch is wireless and easy to install anywhere in the room, delivering unparalleled flexibility while saving time and money.

The Audacy Scene Switch helps you comply with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# SCENE SWITCH

WSS1200

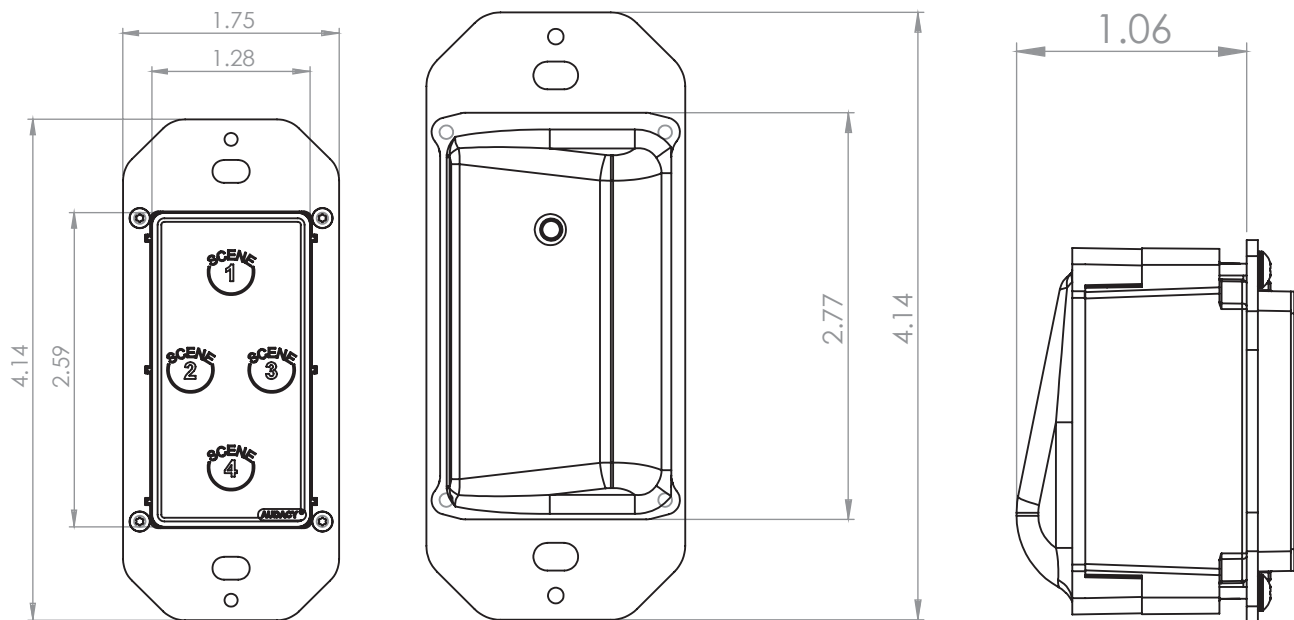


On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Preconfigured Scenes	Up to 4
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXWSS1200 IC: 11250A-WSS1200
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controllers in a typical commercial building; extended range when repeater mode enabled
Power	25+ year battery, non-replaceable
Operating Temperature	50°F to 90°F (10°C to 32°C)
Installation Environment	Indoor use only
Mounting	In switch box, decorator-style faceplate
Color	White
Dimensions	4.14" x 1.75" x 0.76" (69.6mm x 61.5mm x 106.7mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-WSS1200
Description	Audacy® Scene Switch

## MECHANICAL DIMENSIONS (INCHES)



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## REMOTE SWITCH

SS1200

The Remote Switch is a battery-powered, wireless light switch. Operating in the highly reliable 915 MHz spectrum, the SS1200 requires no wiring, has a 25-year battery life, and wirelessly sends commands to control light fixtures equipped with Audacy Luminaire Controllers. Since it is not hard-wired, the SS1200 can be mounted or placed virtually anywhere a switch is desired.

### HOW IT WORKS

The Remote Switch is wireless and simple to install anywhere or use as a handheld switch for remote convenience. The innovative, capacitive touch panel will adjust to your desired setting at the touch of a finger.

### ADAPTABILITY AT YOUR FINGERTIPS

Used in conjunction with the Audacy Wireless Controls system, the Remote Switch permits onsite employees to customize their lighting environments by overriding the master inputs of your Audacy Interface. The Remote Switch turns lights on or off and enables 0-10V dimming.

The Audacy Wireless Controls system can be used to provide compliance with ASHRAE 90.1-2016 and CA Title 24 requirements.

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# REMOTE SWITCH

SS1200

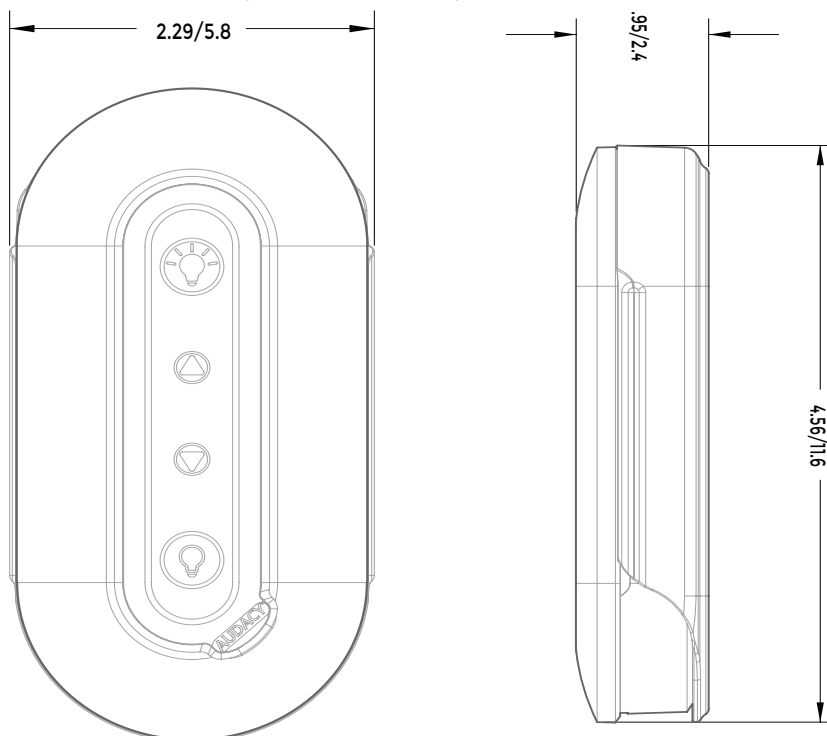


On the DesignLights Consortium™ Qualified Products List

## SPECIFICATIONS

ITEM	DESCRIPTION
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXSS1200 IC: 11250A-SS1200
Transmit Power	2 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	100 ft. (30m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Power	25+ year battery, non-replaceable
Operating Temperature	50°F to 90°F (10°C to 32°C)
Installation Environment	Indoor use only
Mounting	2 bracket mounting holes (See mechanical drawing for dimensions)
Color	White
Dimensions	4.56" x 2.29" x 0.95" (115.82mm x 58.17mm x 24.13mm)
Weight	3.0 oz (85g)
Warranty	5 year
Catalog Number	59-SS1200
Description	Audacy® Remote Switch

## MECHANICAL DIMENSIONS (INCHES/CM)



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## HOW IT WORKS

The DC FlexZone energized ceiling grid products consist of heavy duty Suspension System Main Beams equipped with passive electrical conductors. The Suprafine® 9/16" DC Main Beams have embedded conductors on the top rail. The Silhouette® 9/16" – 1/4" Reveal DC Main Beams have embedded conductors on the top rail and internal to the 1/4" reveal. Both types of DC Main Beams are available in 6', 8', 10' and 12' lengths. They are EMerge Alliance® Registered Products. They are designed for use only with other Armstrong suspension system components and EMerge Alliance Registered components.

## WHY USE DC FLEXZONE?

The DC FlexZone energized ceiling grid can be an integral part of a net zero energy building strategy, providing more efficient lighting and direct use of on-site renewable energy. A key benefit is the plug and play flexibility throughout the building for easier relocation of lighting to accommodate repurposing of spaces without the need to rewire.

## THE POWER IS IN THE GRID

Increase building flexibility, sustainability and energy savings with the DC FlexZone Suspension System. Distribute safe, low-voltage direct current (DC) electrical power through the acoustical ceiling suspension system (grid).

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**Armstrong®**  
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# DC FLEXZONE™ SILHOUETTE® 1/4" REVEAL

## 9/16" SLOT SYSTEM

DC7601XX

### TYPICAL APPLICATIONS

- Offices
- Retail
- Education
- Hospitality
- Healthcare

### SPECIFICATIONS

Grid Face	Item No.	Description	Dimensions	Hanger Spacing Lbs./Lin. Ft.		Seismic Category	Total Recycled Content	Total Post-Consumer Content	PCS/ Ctn.	LFT/ Ctn.
				4ft	5ft.					
DC Main Beams										
9/16"	DC760106	6' HD Main Beam Routs 12" OC, Notched 24" OC	72" x 9/16" x 1-3/4" x 1/4"	16.44	8.49	•	44%	37%	10	60
9/16"	DC760108	8' HD Main Beam Routs 12" OC, Notched 24" OC	96" x 9/16" x 1-3/4" x 1/4"	16.44	8.49	•	44%	37%	10	80
9/16"	DC760110	10' HD Main Beam Routs 12" OC, Notched 24" OC	120" x 9/16" x 1-3/4" x 1/4"	16.44	8.49	•	44%	37%	10	100
9/16"	DC760112	12' HD Main Beam Routs 12" OC, Notched 24" OC	144" x 9/16" x 1-3/4" x 1/4"	16.44	8.49	•	44%	37%	10	120
Non-Powered Border Mains										
9/16"	760106	6' HD Border Main Beam Routs 12" OC, Notched 24" OC	72" x 9/16" x 1-3/4" x 1/4"	16.44	8.49	•	61%	50%	20	120
Accessories										
	DCINS	Insulator Cap	2"						100	N/A
	BACG90A	Brace Attachment Clip							250	N/A
	UPC	Partition Clip							200	N/A

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# DC FLEXZONE™ SILHOUETTE® 1/4" REVEAL

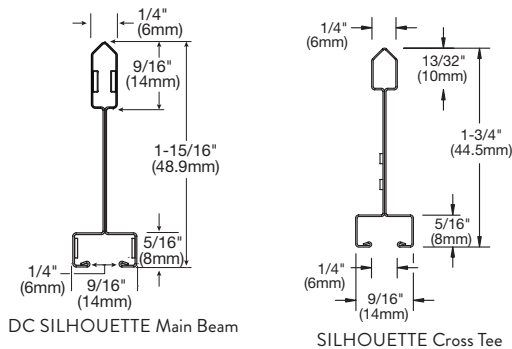
## 9/16" SLOT SYSTEM

DC7601XX

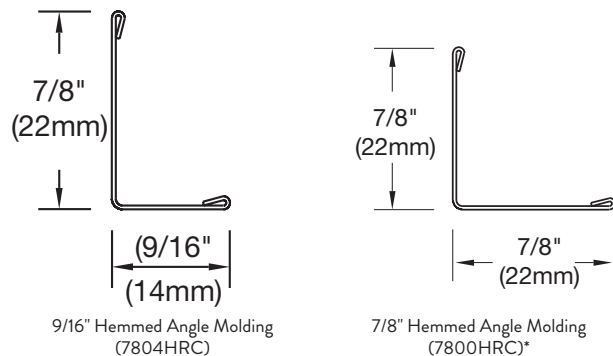
### KEY SELECTION ATTRIBUTES

- Main beams only with integrated electrical conductors capable of distributing power to electrical devices such as light fixtures and sensors
- UL Listed and EMerge Alliance® Registered for use in 24VDC power distribution systems
- DC circuits available on top bulb and in slot reveal
- Integrates with standard cross tees, moldings, and accessories for Silhouette 1/4" Reveal suspension systems
- Installed acoustically as part of the overall ceiling system, with electrical connections to the grid made subsequently by qualified electricians
- High recycled content, galvanized steel for durability and sustainable design
- Crisp reveal installs virtually flush with Tegular ceiling panel surface for monolithic appearance
- Seismic performance with heavy-duty load rating meets the most stringent codes

### DETAILS AND GRID INTERSECTION



\* For seismic zones, use 7800HRC



### INSTALLATION INSTRUCTIONS

- DC main beams shall not be field cut.
- Non-powered Border Mains (Item 760106) shall be used and field cut at perimeters.
- Four different lengths of DC main beams are available to accommodate design.
- Reflected ceiling plans should indicate orientation, location, and length of DC powered mains and field-cut border mains. Installers should follow the RCP.
- Do not use predesignated factory power key slots for hanger wire.
- Do not use metal bolts in slot reveal.
- Use Insulator Caps (Item DCINS) over any clips that touch the integrated conductors.
- Do not screw through the bulb of a DC Main.
- Use BAC (Item BACG90A) Clips for any screw attachments for seismic applications and bracing.
- Use Partition Clips (UPC) screwed to the web of the grid for any attachments to the underside of the grid.



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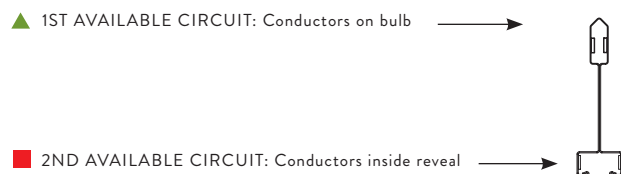
# DC FLEXZONE™ SILHOUETTE® 1/4" REVEAL

## 9/16" SLOT SYSTEM

DC7601XX

### ELECTRICAL DATA

- Qualified electricians make all electrical connections to grid mains after DC main beams are installed as part of an acoustical ceiling suspension system.
- Each DC main is designed to mate with EMerge Alliance® Registered power distribution cable assemblies at designated locations along the length of each main.
- Each DC main is considered a Class 2 circuit(s) when electrically connected.
- DC mains are intended to deliver 24V Direct Current (DC) power to one or more electrical devices equipped with EMerge compliant connectors that are flexibly connected to grid.



DC Silhouette Mains contain electrical conductors along the top “bulb” and within the bottom “reveal” of the grid bus bar, providing capability for two separate Class 2 circuits on each main.

**ELECTRICAL CAPACITY:** 24 Volt DC, 4.1 Amps, 100 Watts on each Class 2 circuit (i.e., top bulb & bottom box)

**ELECTRICAL CODE COMPLIANCE:** NEC Class 2, UL 2577 Listed, EMerge Alliance® Registered

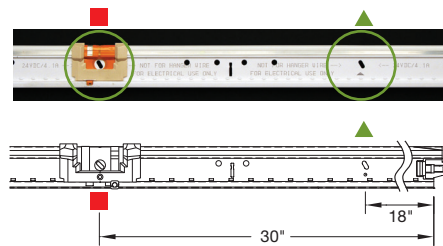
**WIRING:** 12 AWG copper solid flat conductor, tin finish

**WARNING:** DC MAIN BEAMS ARE NOT INTENDED FOR USE WITH AC LINE VOLTAGE

### IMPORTANT ELECTRICAL CONNECTIONS

24 Volt DC Class 2 power shall be connected in a predesignated factory power key slot on the DC Silhouette main beam. The two available circuits on DC Silhouette mains are located 18” from each end\* for power to the top “bulb” and 30” from each end\* for power to the bottom “reveal.”

NOTE: Power slots are available on one end only on 6’ DC mains.



### PHYSICAL DATA

ITEM	DESCRIPTION
Material	Double-web hot dipped galvanized steel made from USA produced recycled steel. Plastic insulated copper bus conductors. NOTE: Item 760106 Border Main steel only/no conductors.
Surface Finish	Baked polyester paint on steel. Tin finish on conductors.
Face Dimension	9/16"
Profile	Slot Reveal
Cross Tee/Main Beam Interface	Mitered
End Detail	Main Beam: Coupling Cross Tee: Staked-on clip
Duty Classification	Heavy-Duty
ASTM C635	Heavy-duty main beam classification, commercial-quality galvanized steel. Steel surface chemically cleansed and prefinished in baked polyester paint.
Seismic Performance	Main beams – DC7601xx – all lengths Minimum Lbs. to pull out compression/tension – 387.6

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JLC-Tech, a pioneer for architecturally integrated LED lighting solutions, strives to offer the most technologically advanced options when it comes to lighting your next project. By harnessing Armstrong Ceiling's DC FlexZone suspension system with Audacy Wireless Controls, installing and controlling the T-BAR LED light is effortless.

## HOW IT WORKS

The T-BAR LED, outfitted with the Armstrong X-LED mounting clip, snaps into Armstrong Ceiling's grid with no tools. While Audacy Wireless Controls integrates into the low-voltage DC FlexZone suspension system to allow for simple operation of the LED light.

## NO PLENUM, NO PROBLEM

The clean and modern T-BAR LED is the only lighting product that replaces the ceiling cross tee in the suspended ceiling system. The T-BAR LED allows for uninterrupted ceiling panels creating a uniform ceiling design and optimizing sound absorption and light reflectance. The low profile appearance of the T-BAR LED leaves the plenum above the ceiling completely unoccupied. Installation is a snap and requires no tools or field cutting of tiles.

## T-BAR LED™ BY JLC-TECH

JLC-Tech was founded with one singular vision: to create unique and useful LED lighting fixtures. Dramatically cut energy use, reduce installation costs, and minimize construction waste by using the T-BAR LED, the only lighting fixture that replaces the cross tee in the suspended ceiling system.



# T-BAR LED BY JLC-TECH

TBA + K COLOR + SIZE + GRID + OPTIC + CLIP + COLOR

## SPECIFICATIONS

ITEM	DESCRIPTION
Type of LED/K Color	<b>HW</b> = Warm White 3000K <b>MW</b> = Medium Warm 3500K <b>MN</b> = Medium Neutral 4000K <b>HN</b> = Neutral White 4500K
Size	<b>2</b> = 2 ft, <b>4</b> = 4 ft
Grid Type	<b>15</b> = 9/16", <b>15B</b> = 9/16" Bolt Slot
Optic	<b>D</b> = Diffusing Lens <b>A2</b> = Asymmetric <b>B</b> = Block Clear Diffusing Lens <b>B2</b> = Block Frosted Diffusing Lens <b>S</b> = Acrylic Signage
Mounting Clips	<b>A</b> = Armstrong
Color	<b>W</b> = White, <b>C</b> = Custom
Warranty	5 years
Light Output	Diffusing = 383lm per foot Asymmetric = 437.5lm per foot Block Clear Diffusing = 415lm per foot Block Frosted Diffusing = 465.5lm per foot
Listings	ETL/cETLus CE RoHS Indoor use only.
Catalog Number	TBA-XX-X-X-A-W
Description	JLC-Tech T-BAR LED Audacy
Mounting	Armstrong compatible mounting clips for installation with Armstrong Ceilings 9/16" Suprafine®, Silhouette®, Sonata®, Interlude®, and DC FlexZone™ suspension systems
Materials	Anodized and painted aluminum extruded body, steel mounting clips, white PC end caps, high transmitting acrylic PMMA lens (diffusing, asymmetric, block diffusing lens)

Notes: T-BAR LED modules can be parallel connected up to 12 linear feet max per Class 2 channel. Maximum distance from 24VDC source is 30 feet. Longer distance achievable if using higher gauge wire.

## MECHANICAL DIMENSIONS (INCHES/MILLIMETERS)



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info@jlc-tech.com

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## 24V LED RECESSED FIXTURE

4VL24

Founded in 1990, Pathway Lighting is an innovative designer and manufacturer of specification-grade LED based luminaires. These include downlights, wall washers, adjustable accents, decorative pendants and cylinders. The wide range of Pathway products can support the lighting requirements of a single space or the entire project. As an independently owned lighting manufacturer, Pathway is able to provide responsive technical support, and welcomes customers' requests for fixture modifications and custom products.

The 24V LED recessed fixture by Pathway integrates seamlessly with the Armstrong Ceilings low-voltage ceiling grids. The recessed fixtures are available in 4" and 6" apertures in both downlight and wall wash styles. The fixtures deliver up to 1800 lumens and are ideally suited for commercial, educational, retail and healthcare applications. Pathway plans to take a proactive approach by further developing a wide range of lighting products for the Armstrong Ceilings DC FlexZone energized ceiling grid and the Audacy wireless lighting control system.

Pathway's strategy has always been to stay up-to-date with the latest in LED and controls technology. Future focus is on these exciting trends which include Internet of Things (IoT), Bluetooth, low voltage lighting applications such as the Armstrong Ceilings DC FlexZone energized ceiling grid, Audacy wireless lighting control system and the Pathway CentralDrive remote driver systems.

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# 24V LED RECESSED FIXTURE

4VL24

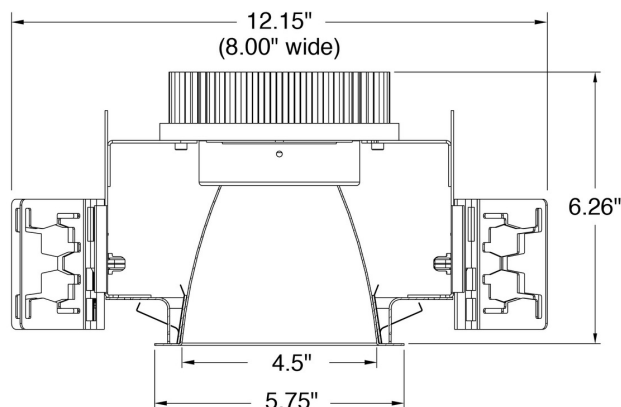
## SPECIFICATIONS

ITEM	DESCRIPTION
Application	Low voltage LED lighting fixtures are suitable for 24VDC energized ceiling grid applications
LED Module	56 high-efficiency LED's are mounted on single thermally protected board. Mixing chamber provides for reliable color consistency from fixture to fixture. Engineered heat sink provides proper thermal management to ensure optimum operating characteristics and long life. LED module is serviceable from below.
Lamp Life	50,000 hours with 70% lumen maintenance when ambient temperatures do not exceed 45°C. Lower ambient temperatures yield longer lamp life.
Power	1300L = 22W, 1800L = 25W
Luminaire Input	24VDC, 22W (1300L) or 24VDC, 25W 1800L (Provided by energized ceiling grid)
Dimming	Standard product is compatible with 0-10V dimming controls; Onboard 0-10V dimming circuit included
Housing	Heavy-gauge aluminum construction provides a secure mounting platform for electrical components. Standard plaster flange allows for 1" ceiling thickness.
Mounting	Universal brackets adjust vertically and accept L-Bar hanger bars which are included
Catalog Number	4VL24
Description	24V LED Recessed Fixture

## PRODUCT IMAGE



## MECHANICAL DIMENSIONS (INCHES)



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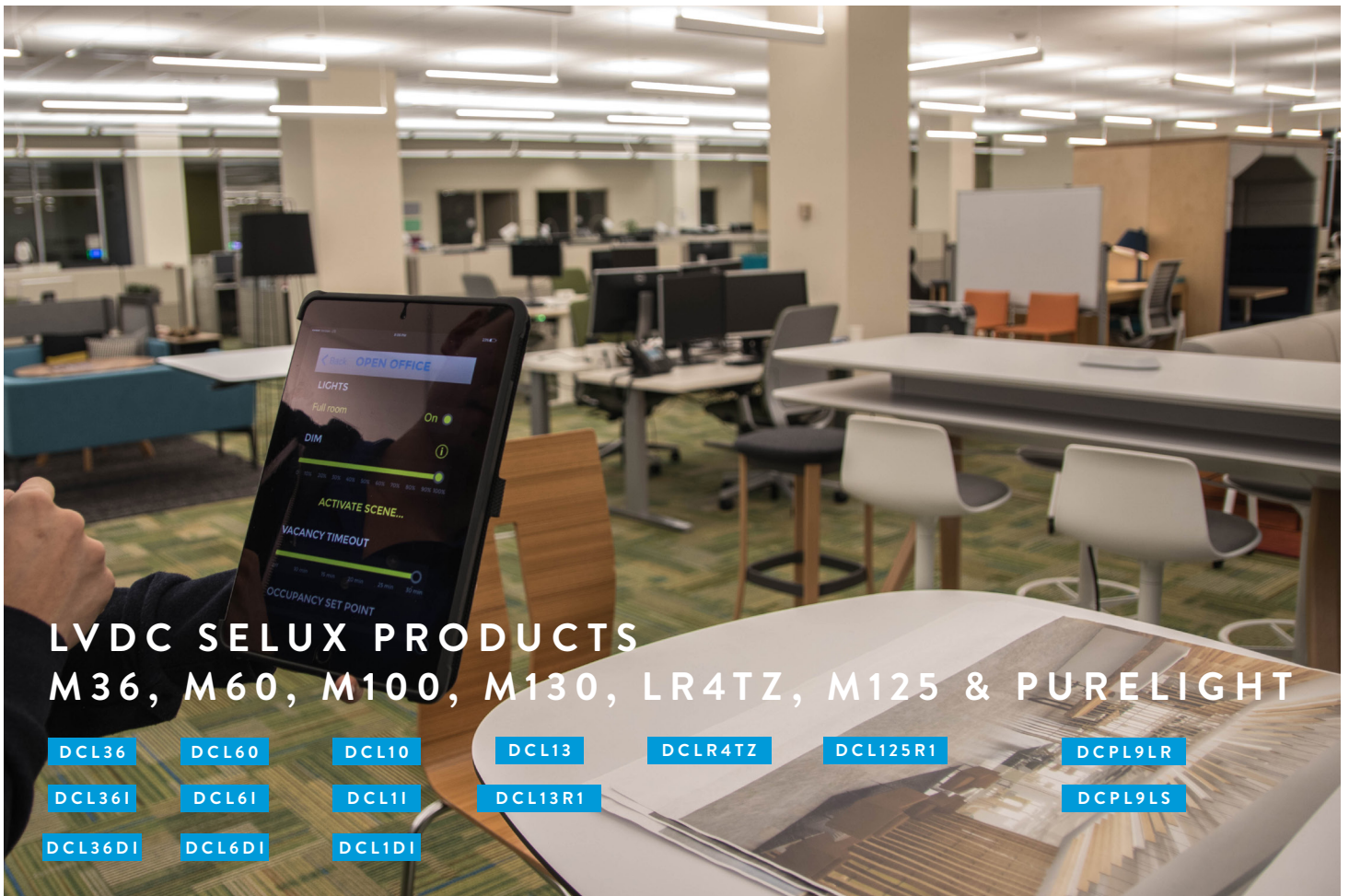
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P.O. Box 591  
Old Saybrook, CT 06475  
Phone: 860-388-6881  
Sales@PathwayLighting.com

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## ABOUT SELUX:

For over 30 years, Selux U.S. has produced high-quality lighting products that unify the best ideas from domestic and international designers with the advantages of American manufacturing. Infusing inspired designs with innovative lighting technology, Selux strives to find the perfect product configuration to meet each project's needs. This is accomplished by offering extremely knowledgeable support and highly adaptable systems. A corporate commitment to the environment solidifies the first rate company position of Selux. Sophisticated form characterizes the product, but for Selux, form is a complement to function, at which its offerings also excel.

## LVDC PRODUCT OFFERING:

The MLED product range from Selux is available in several widths, offering a uniform family appearance with a variety of optics and light outputs. The M125 provides quality lighting with added protection for Wet Locations through the IP65 rating, and for installations needing impact-resistance with the IK10 rating. Purelight Round and Square options offer homogeneous distributions which provide comfortable, volumous lighting. The Satine lens creates smooth and sophisticated lines, fitting in with most designs.

## SELUX: LIGHTING COMPONENTS FOR EVERY SITUATION

We produce exactly the types of lighting that designers need to be able to turn their ideas into reality. Many of our product families are based on modular systems, fully scalable housing sizes, lighting units, and technologies so that they can fulfill even the most complex requirements through clean designs and consistent ideas.

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 WIRELESS LIGHTING CONTROL  
 YOUR WORLD IN A BETTER LIGHT

+

**selux**



# SELUX LED FIXTURES FOR LVDC POWERGRIDS

## SPECIFICATIONS

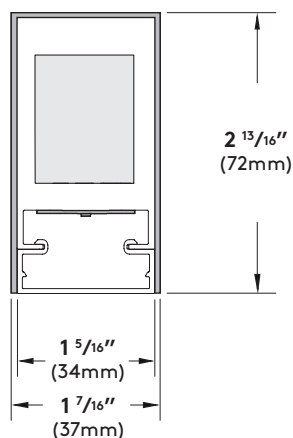
ITEM	DESCRIPTION
Light Engine*	12W, 24W, 32W, or 44W (For other outputs, consult factory)
CCT	2700K, 3000K, 3500K, 4000K
Shielding	M36 - 12 Optic Options M60/M100/M130/LR4TZ - 2 Optic Options M125 - 4 Optic Options Purelight - Satine Lens
Mounting	Cable or Recessed
Nominal Fixture Length	2 ft or 4 ft (For other lengths, consult factory)
Finish	White, Black, Semi-Matte Black, Silver, Premium Colors (Purelight End Caps available in Polished, White, or Premium Colors)
Ambient Operating Temperature	Min: -20°C (-4°F), Max: 35° C (95° F)
Certifications and Compliance	NRTL - For Dry and Damp location (I.E. cULus; cCSAus), ADA Compliant, ARRA Compliant, RoHS Compliant M125 Also Rated for Wet Locations, IP65, IK10
Warranty	5 Year Limited LED Luminaire Warranty

\*Dependent on fixture and length

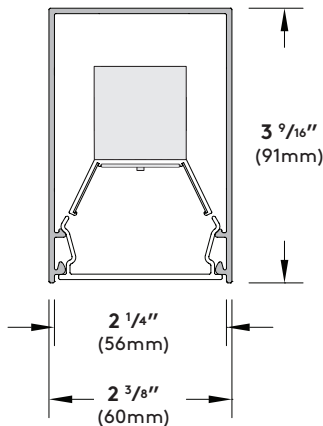
## CROSS-SECTION MECHANICAL DIMENSIONS (INCHES/MILLIMETERS)

(These cross-sections are representative - for complete offering, please refer to Selux DC spec sheets)

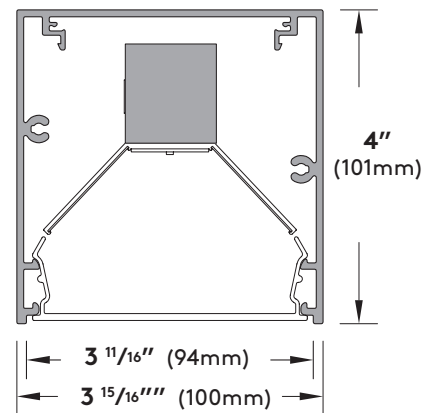
**DCL36 DIRECT**



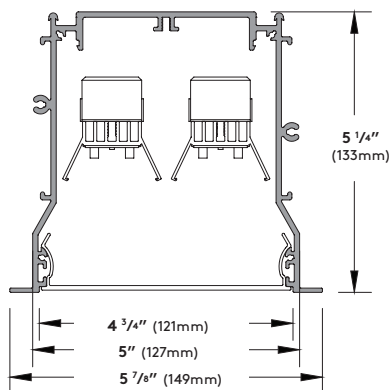
**DCL60 DIRECT**



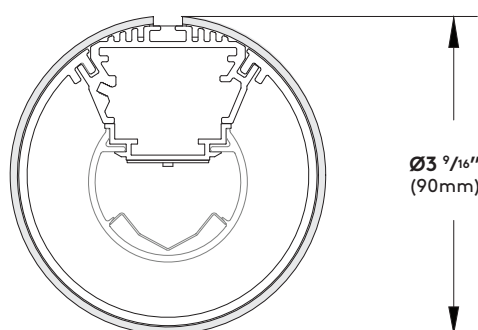
**DCL100 DIRECT**



**DCL130 RECESSED**



**DCPL9LR**



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5 Lumen Ln, P.O. Box 1060 Highland, NY 12528  
(845) 834 1400 | seluxus@selux.com | selux.us



A DIVISION OF  IDEAL INDUSTRIES, INC.

1375 Park Avenue, Sycamore, IL 60178, USA (815)-895-5181 | (800)-435-0705  
[www.audacywireless.com](http://www.audacywireless.com)