

## STR SERIES STAIRWELL LINEAR

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Precision-formed 22-gauge stamped sheet metal housing with reinforced bends for added rigidity. Seam-welded ends and a corrosion-resistant powder coat ensure structural strength and long-term durability.

### OPTICS

End-to-end frosted polycarbonate (PC) lens standard.

### ELECTRICAL

Delivered 150lm/W efficacy LEDs offer 80+ color rendering index (CRI), L70 >100,000 hours expected life.

-40°C up to 50°C (-40°F up to 122°F) maximum operating temperature.

Selectable lumen and CCT technology allows easy field-adjustable capability.

Luminaire ships with maximum output and 4000K CCT setting.

Driver operates at 120-277V input, 0-10V dim-to-off driver.

Built-in Failed-On Ultrasonic sensor (Part# SENSOR-USS-CMP308).

### SENSORS (OPTIONAL)

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

### MOUNTING

Designed for wall / surface mount application over electrical box.

### STANDARD FINISH

Corrosion resistant semi-gloss White finish, suitable for damp location.

### CERTIFICATION

Damp location label standard.

Meets Buy America Act requirements.

All luminaires are built to UL1598 standards and bear appropriate cULus labels.

For Emergency application, equipment with UL924 certified battery packs.

DLC<sup>®</sup> Standard (DesignLights Consortium Qualified).

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



Fixture w/Ultrasonic Sensor



Programmable Ultrasonic Sensor

### SHIPPING DATA

| Product  | Measurement      | Weight |
|----------|------------------|--------|
| STR-2ASC | 24"L x 6"W x 5"H | 7 lb   |
| STR-4ASC | 48"L x 6"W x 5"H | 15 lb  |



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| ORDER INFORMATION      |                     |  |                                  | EXAMPLE: STR 4A SC WH UD        |       |
|------------------------|---------------------|--|----------------------------------|---------------------------------|-------|
| Fixture                | Series              | Size   | CCT                              | Finish                          | Input |
|                        | STR                 |  | SC                               | WH                              | UD    |
| Accessories<br>Options |                     |  |                                  |                                 |       |
| A                      | SERIES              |  |                                  |                                 |       |
|                        | STR                 | LED Stairwell  |                                  |                                 |       |
| B                      | SIZE                |  |                                  |                                 |       |
|                        | Code                | Size   | Power                            | OUTPUT                          |       |
|                        | 2A                  | 2-Foot   | Selectable 13W / 17W / 21W / 26W | 2,000 / 2,600 / 3,200 / 3,900LM |       |
|                        | 4A                  | 4-Foot   | Selectable 34W / 40W / 47W / 53W | 5,100 / 6,000 / 7,000 / 8,000LM |       |
| C                      | CCT / OUTPUT        |  |                                  |                                 |       |
|                        | Code                | CCT  |                                  |                                 |       |
|                        | SC                  | Selectable 2700K / 3000K / 3500K / 4000K / 5000K   |                                  |                                 |       |
| D                      | FINISH              |  |                                  |                                 |       |
|                        | WH                  | White  |                                  |                                 |       |
| E                      | INPUT               |  |                                  |                                 |       |
|                        | UD-USS              | 120-277V, 0-10V Dimmable w/Ultrasonic Motion Sensor (PART# SENSOR-USS-CMP308)                          |                                  |                                 |       |
| F                      | ACCESSORIES/OPTIONS |  |                                  |                                 |       |
|                        | AIA                 | Assembled in America, compliant with BAA (COTS)  |                                  |                                 |       |
|                        | EMB-8W-B**          | 90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output                          |                                  |                                 |       |
|                        | EMB-18W-B**         | 90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output                         |                                  |                                 |       |
|                        | EMB-18W-C-B**       | 90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output -20°C-50°C (-4°F-122°F) |                                  |                                 |       |
|                        | CONTROL-LVFA*       | AVI-ON Bluetooth Mesh Control System   |                                  |                                 |       |
|                        | SURGE-LSP4-U        | 10kV inline Surge Protection for Universal input   |                                  |                                 |       |

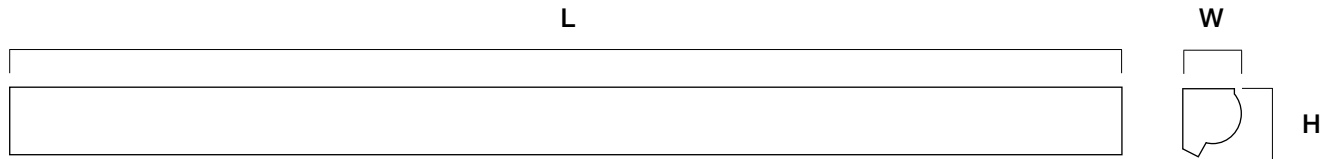
\*see page 5 for sensor spec

\*\*see page 6 for emb spec

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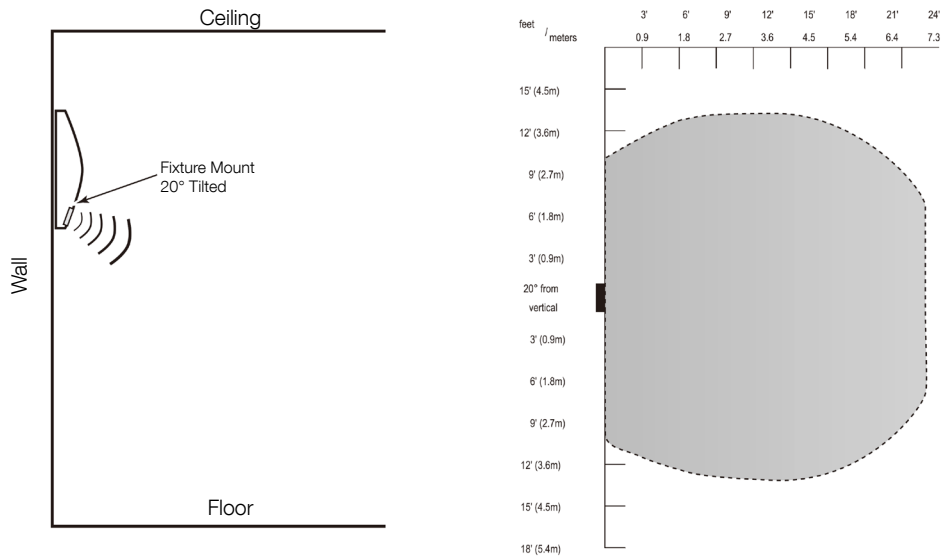
### DIMENSIONS

| Model    | L                  | W                | H                |
|----------|--------------------|------------------|------------------|
| STR-2ASC | 23.90" (608mm)     | 5.60" (142.60mm) | 4.90" (124.10mm) |
| STR-4ASC | 47.90" (1216.20mm) | 5.60" (142.60mm) | 4.90" (124.10mm) |



### ULTRASONIC SENSOR

#### 8 - 10FT Mounting Height Coverage



The coverage shown represents full-step walking motion, with no barriers or obstacles at a mounting height of 8 to 10 feet. Mounting above or below this range significantly affects coverage patterns. Place sensors at least 4 feet away from air supply ducts. For complete coverage in open areas, install multiple sensors to provide a 20% overlap with each adjacent sensor's coverage area.

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### PERFORMANCE DATA

| SYSTEM WATTS | SIZE   | VOLTAGE  | 2700K / 3000K / 3500K / 4000K / 5000K |     |
|--------------|--------|----------|---------------------------------------|-----|
|              |        |          | LUMEN                                 | LPW |
| 13W          | 2-Foot | 120-277V | 2000                                  | 150 |
| 17W          | 2-Foot | 120-277V | 2600                                  | 150 |
| 21W          | 2-Foot | 120-277V | 3200                                  | 150 |
| 26W          | 2-Foot | 120-277V | 3900                                  | 150 |
| 34W          | 4-Foot | 120-277V | 5100                                  | 150 |
| 40W          | 4-Foot | 120-277V | 6000                                  | 150 |
| 47W          | 4-Foot | 120-277V | 7000                                  | 150 |
| 53W          | 4-Foot | 120-277V | 8000                                  | 150 |

### DLC CODE

| Part Number    | DLC Product ID | DLC Class   |
|----------------|----------------|-------------|
| STR-2A-SC-WHUD | pending        | DLC Premium |
| STR-4A-SC-WHUD | pending        | DLC Premium |

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**SENSOR SPEC**

| Model                                   | Type                  | Mounting    | Coverage  | Input  | Function                                       | Programmable                      |
|---|-----------------------|-------------|-----------|--------|--|-----------------------------------|
| SENSOR-USS-CMP308<br>(included)         | Ultrasonic            | 8FT<br>10FT | 12 x 21FT | 10V DC | On/Off Motion<br>Daylight Sensing              | Dipswitch on Unit                 |
| CONTROL-LVFA<br>(see page 7 for detail) | Fixture<br>Controller | -           | -         | 12V DC | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App |



SENSOR-USS-CMP308

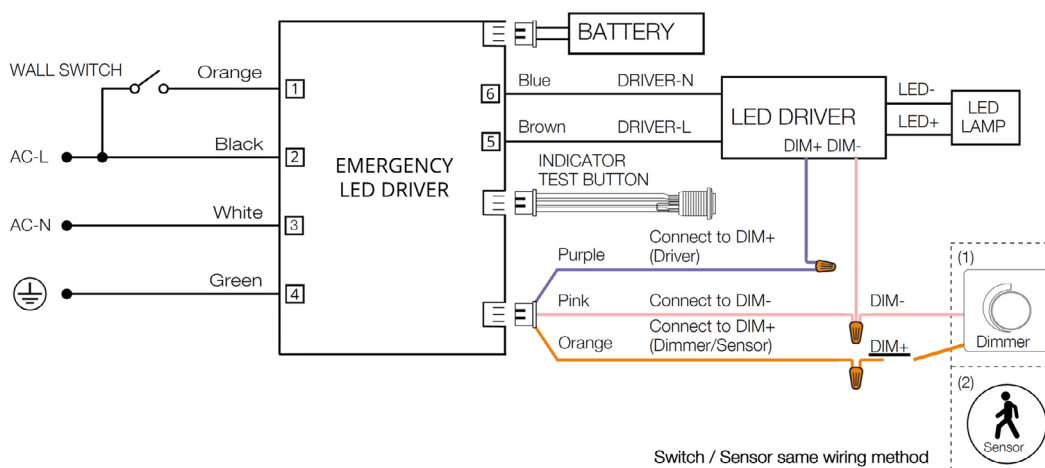


CONTROL-LVFA

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### EMB SPEC

| Model       | Compatible Fixture | Battery Capacity | Input      | Output | Output Power | Operating Temp               | Installation             |
|-------------|--------------------|------------------|------------|--------|--------------|------------------------------|--------------------------|
| EMB-8W-B    |                    | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°F   | Factory or Field Install |
| EMB-18W-B   |                    | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°F   | Factory or Field Install |
| EMB-18W-C-B |                    | 90mins           | 100-347VAC | 170VDC | 8W           | -20°C ~ 50°C<br>-4°F ~ 122°F | Factory or Field Install |



## STR SERIES STAIRWELL LINEAR

### CONTROL-LVFA SPEC

#### Status LEDs & Config Button

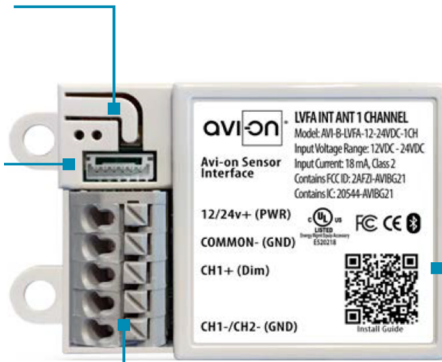
Quick and easy validation of wiring and network

#### Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

#### Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



#### Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

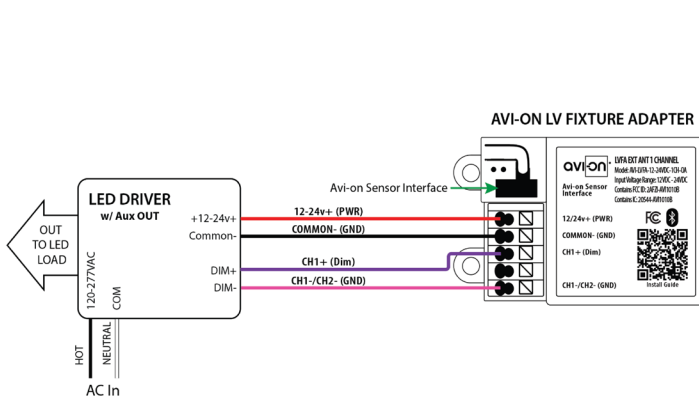
### SPECIFICATIONS

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

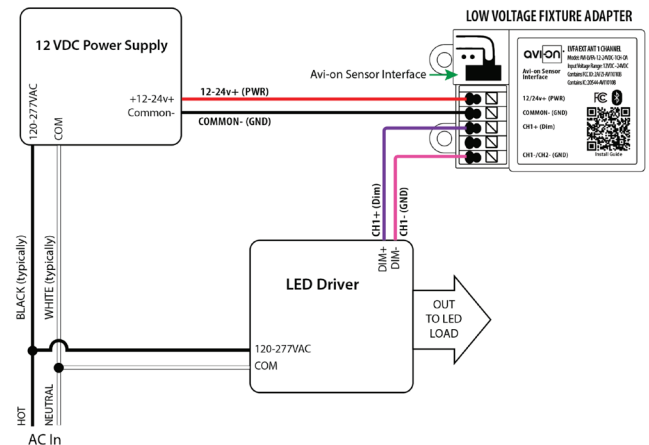
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
 5 years; 10 years optional  
**WARRANTY:** FCC: 2AFZ1-AV1010 B  
 IC: 20544-AV1010 B  
**REGULATORY:** BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

### WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply