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OSRAM

ProPoint Sconce

INSTALLATION GUIDE

V1.1



Cover:

ProPoint Sconce S

ProPoint Sconce M

ProPoint Sconce L

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SAFETY AND OPERATION

This installation guide uses the following special statement categories to alert you to key items:

1. **WARNING** - Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
2. **CAUTION** - Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
3. **NOTICE** - Indicates information considered important for the proper operation of the product but not hazard related.
4. Please review this manual completely prior to beginning the installation process and take note of the following:
 - The ProPoint luminaire and associated accessories must be installed by a qualified person in conjunction with all applicable electrical codes and standards.
 - The ProPoint luminaire does not contain any user-serviceable parts. Opening of the luminaire will void the warranty.
 - Do not use the product if the cables are damaged.
 - Handle the luminaire carefully to prevent damage during installation. Rough handling may damage the internal electronics and void the warranty.
 - Do not attempt installation in wet or severe weather conditions.
 - Do not stare directly into the light beam while the unit is illuminated.
 - IP66 rated. The ProPoint luminaire is not suitable for direct immersion in water.
 - Do not operate the ProPoint luminaire without a connection to earth surface without a suitable earth connection (refer to local standards).
 - The ProPoint luminaire is designed for operation at 120-277V AC (ETL)/220-240V AC (CE). Voltages outside of this range may damage the fixture and will void the warranty.
 - The ProPoint luminaire housing may become hot during normal operation and present a risk of burn injury and fire hazard. Exercise caution when working in proximity to the luminaire and make sure that combustible material does not contact the housing or lens.
 - Failure to keep the luminaire within the operating temperature range (-30°C to +55°C/-22°F to +131°F) will result in improper operation and will void the product warranty.
 - Do not use harsh chemicals, cleaning solvents or strong detergents when cleaning the luminaire.
 - Persons installing this product should make sure:
 - i. The installation complies with all applicable codes, state and local laws, ordinances, standards and safety regulations.
 - ii. The installation environment is carefully studied and suitable surge protection measure(s) is taken. Suggested surge protection measures for outdoor application should reach “Live to Neutral” 5kV, “Live/Neutral to Earth” 10kV.
 - iii. All luminaires can pass surge test up to “Live to Neutral” 1kV, “Live/Neutral to Earth” 2kV according to EN61547 standard.
 - iv. They are qualified or competent in the handling of electrical equipment.

1. INTRODUCTION

1.1 Product Overview

The ProPoint Sconce White + Color is an AC Line powered luminaire. The ProPoint Sconce offers a tight, controlled grazing solution to exterior applications where the light source will be visible. The sleek design works in both traditional and contemporary architectural environments. Available in three sizes, with both white and color options. The daisy chain topology, and direct-wire nature of the fixture via the two integral cable whips allow for simple installation into existing installations and new structures.

1.2 Getting Assistance

Additional product information is available on the Traxon web site:

- www.traxontechnologies.com & www.osram.us/traxon

For additional support, please contact Traxon Technical Support:

For Americas Regional Support:

- +1 (978) 570-3189 – Business Hours Technical Support
- +1 (978) 267-5346 – After Hours Technical Support
- TRXTechSupport2@osram.com

For Asia Pacific Regional Support

- info@traxontechnologies.com

For Europe, Middle East and Africa Regional Support

- info@ecue.com
- support@ecue.com

1.3 Dimensions

FIG.1: ProPoint Sconce S

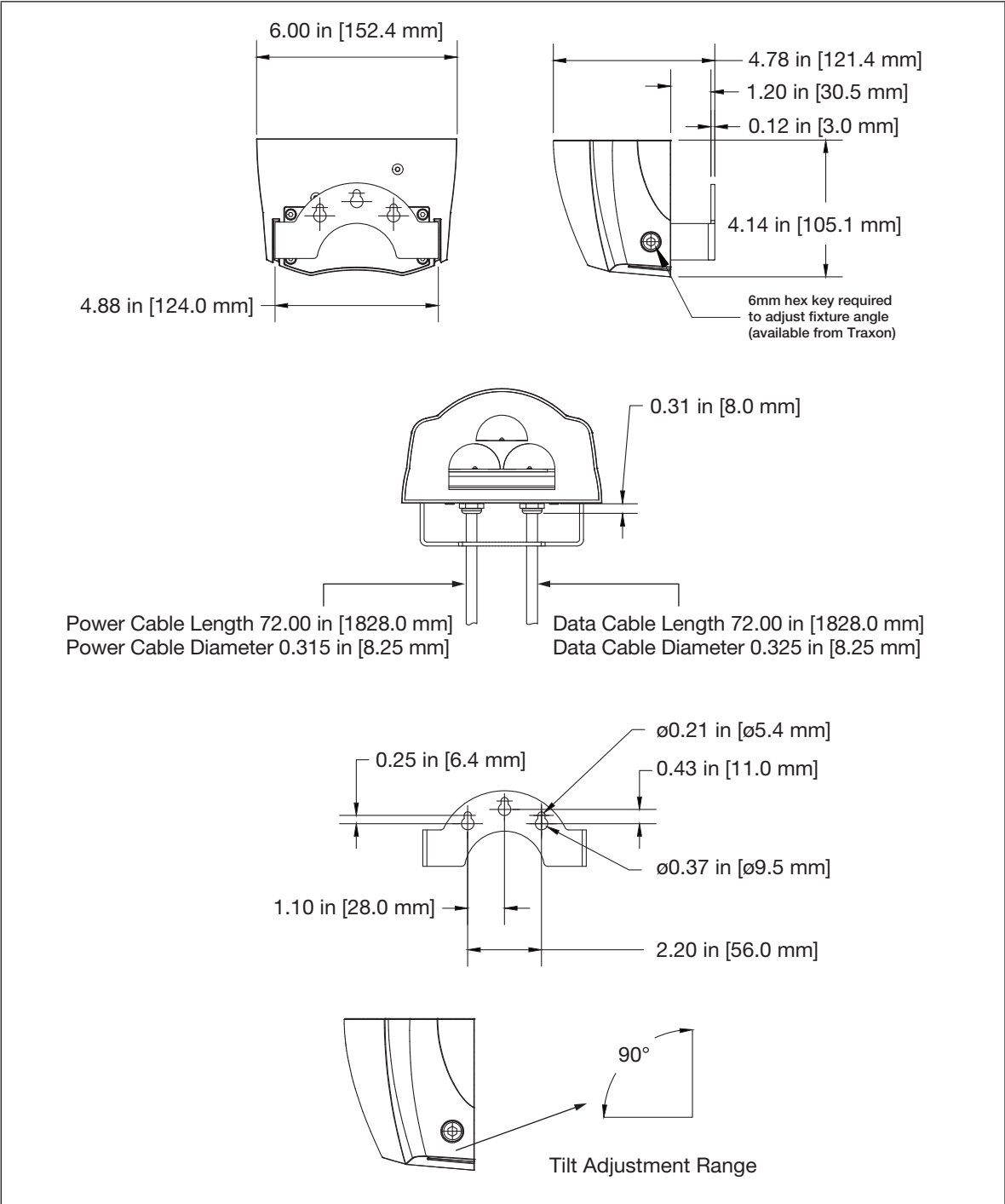


FIG.2: ProPoint Sconce M

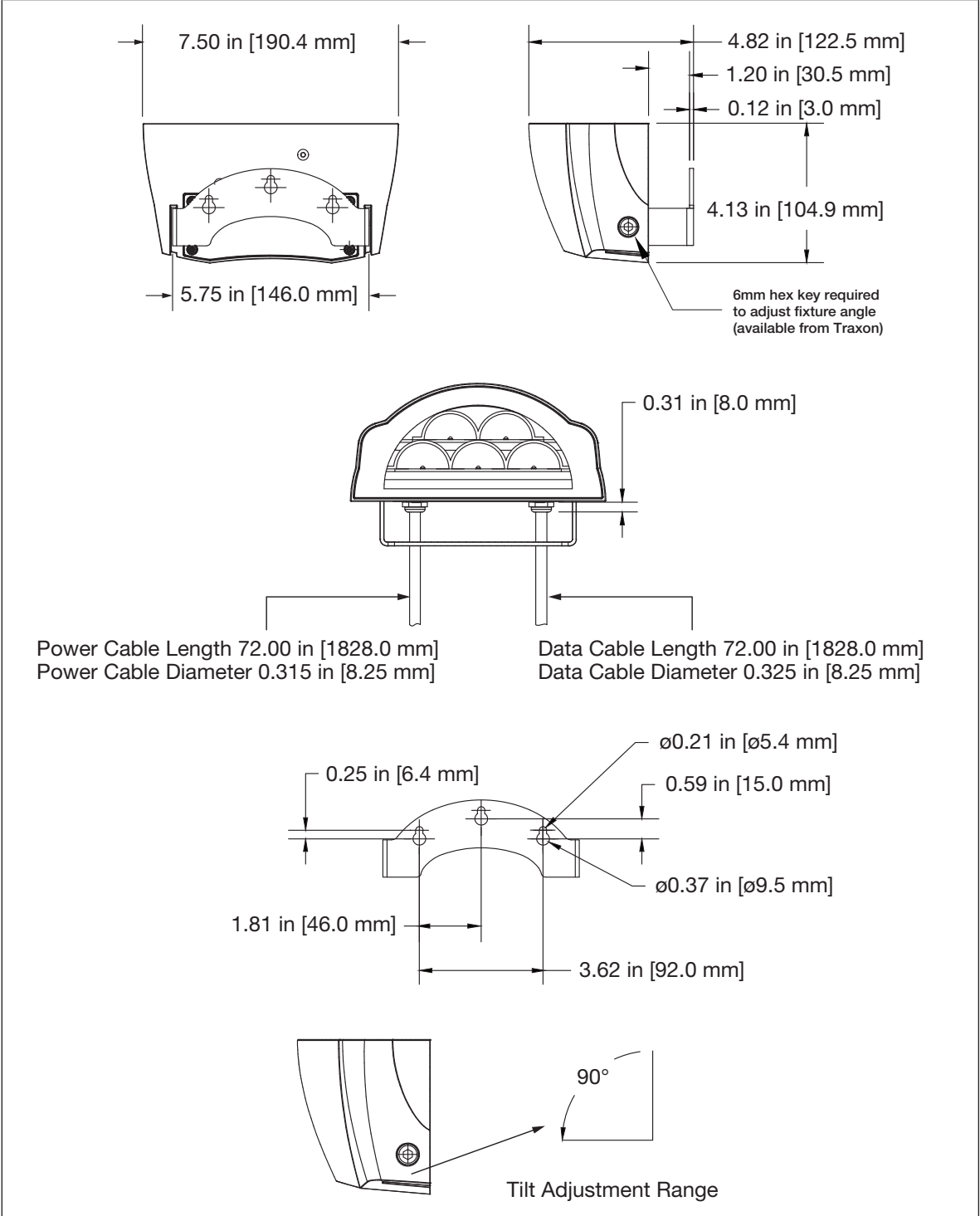
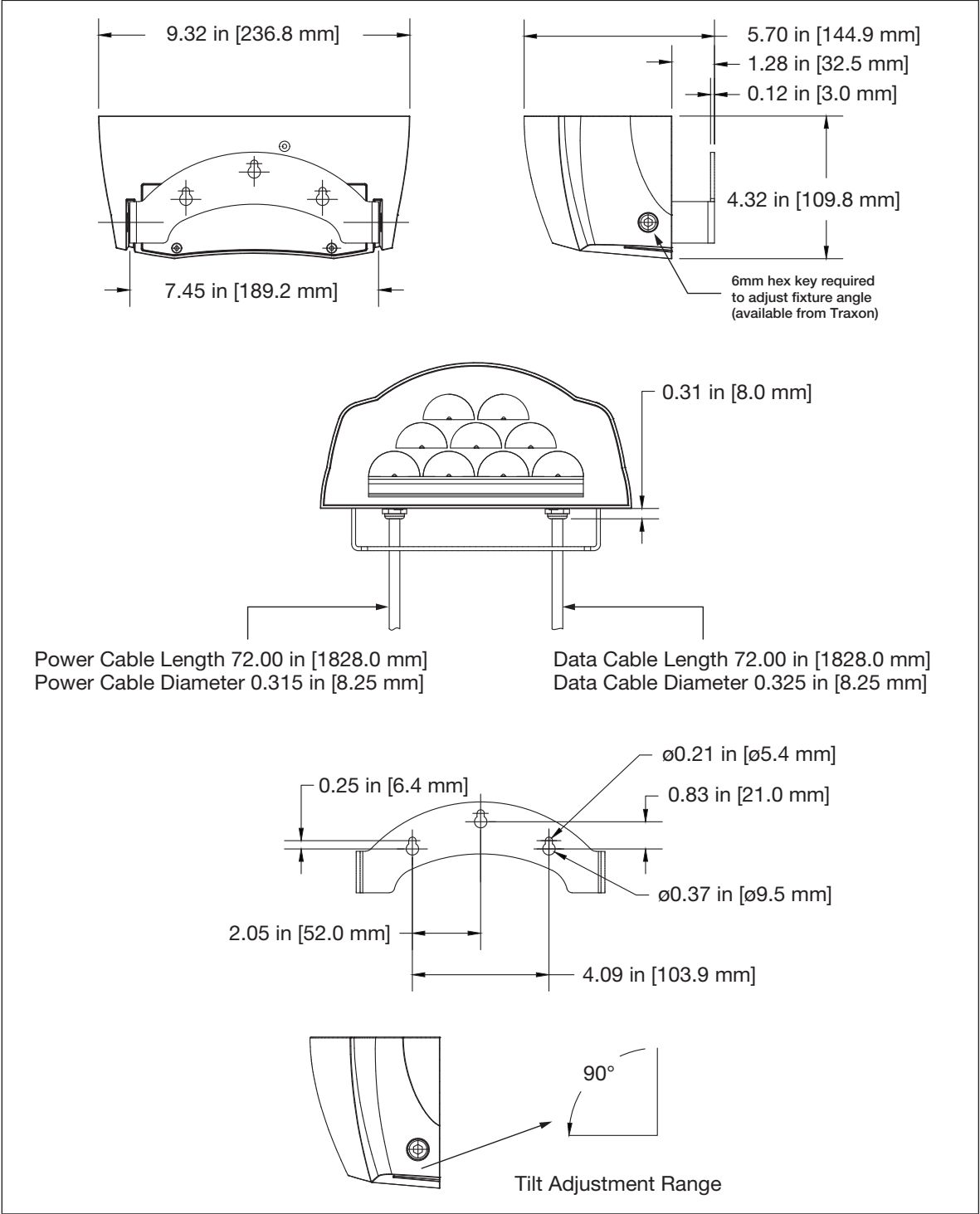
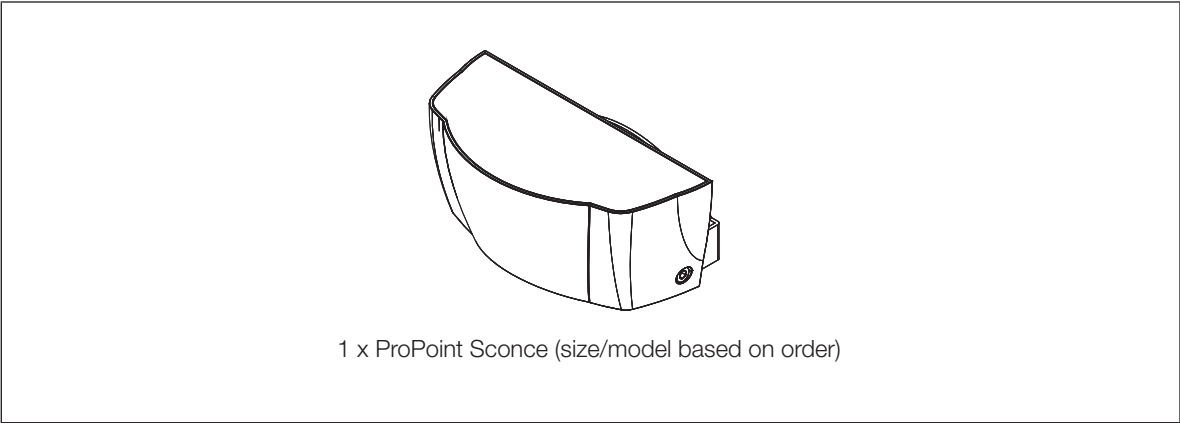


FIG.3: ProPoint Sconce L



1.4 Packing Contents

FIG.4: Packing Contents



1.5 Component Overview

Luminaire Options

The ProPoint Sconce luminaire is available in the following sizes:

Model	Weight	Power Consumption (Nominal)	Power Factor	Input Voltage Range	Operating Temperature	Minimum Starting Temperature
S	1.36 kg / 3.00 lbs.	9W Max.	≥0.9	120-277VAC 50/60 Hz	-30°C to +55°C (-22°F to +131°F)	-20°C / -4°F
M	1.71 kg / 3.77 lbs.	15W Max.				
L	2.50 kg / 5.52 lbs.	24W Max.				

The ProPoint Sconce luminaire is available with the following optical engines:

Model	Color Option	Lens Options	DMX Control Channels	Color Temperature
S	W+ Color	3000K / 4000K / Red / Green / Blue standard. 2200K, 2700K, 3500K, 5000K, 6500K, Amber available.	4	3000K / 4000K / Red / Green / Blue standard.
			1	2200K, 2700K, 3500K, 5000K, 6500K, Amber available.
M	W+ Color		4	3000K / 4000K / Red / Green / Blue standard.
			1	2200K, 2700K, 3500K, 5000K, 6500K, Amber available.
L	W+ Color		4	3000K / 4000K / Red / Green / Blue standard.
			1	2200K, 2700K, 3500K, 5000K, 6500K, Amber available.

The in-rush current data of ProPoint Sconce is shown in the following tables:

In-rush current @ 120V						
Description	1 Fixture	2 Fixtures	3 Fixtures	...	n Fixtures	Present time
ProPoint Sconce S	14.5A	29A	43.5A	...	n*14.5A	0.05ms
ProPoint Sconce M	33A	66A	99A	...	n*33A	0.05ms
ProPoint Sconce L	35A	70A	105A	...	n*35A	0.05ms

In-rush current @ 230V						
Description	1 Fixture	2 Fixtures	3 Fixtures	...	n Fixtures	Present time
ProPoint Sconce S	22A	44A	66A	...	n*22A	0.05ms
ProPoint Sconce M	36A	72A	108A	...	n*36A	0.05ms
ProPoint Sconce L	40A	80A	120A	...	n*40A	0.05ms

1.6 Additional Accessories

Termination Kit

A ProPoint termination kit (part number AM243520054) may be purchased separately. This kit contains the following components:

- (6) Splicing wire connectors: For use in connecting data cable conductors. See section 3.2 for additional information on usage.

NOTE Wire nuts are not permissible for use with data connections and will void warranty.

- 120 Ohm resistor for use in terminating the DMX512 data line at the last luminaire. See section 2.6 for additional information on usage.

FIG.5: ProPoint Termination Kit



2. INSTALLATION

Each ProPoint Sconce luminaire is shipped with a mounting bracket suitable for Surface/Pole mount applications. This mounting plate is pre-installed at the mounting interface of the luminaire.

NOTE The luminaire can be mounted upside down (light facing downwards), M8 screws are suggested.

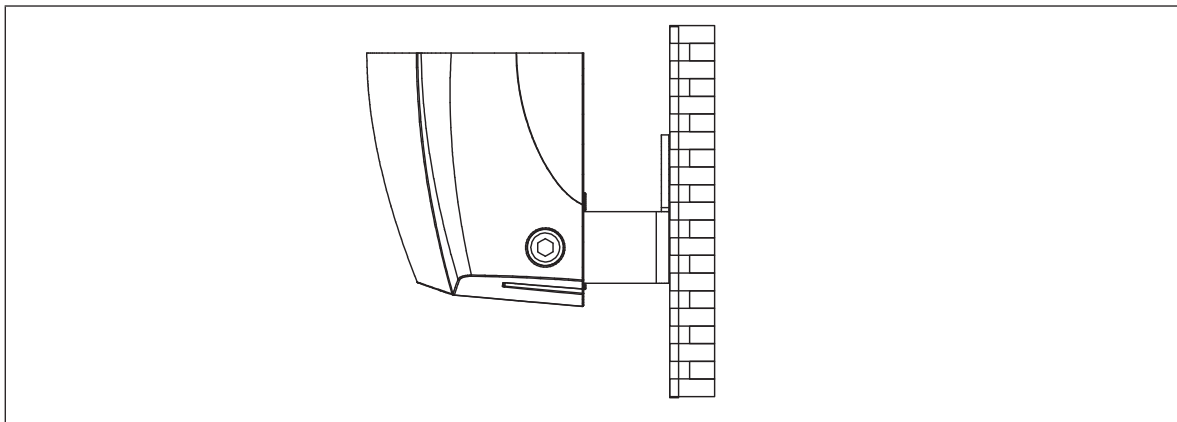
2.1 Wall Mounting with Standard Bracket

Required Tools

ProPoint Sconce S/M/L 6mm Allen key

Standard Bracket Installation

FIG.6: ProPoint Sconce Standard Bracket Installation



Preparation

- Remove the ProPoint Sconce luminaire from the packaging and place the unit on a level surface.

Bracket Preparation and Mounting

CAUTION It is the installer's responsibility to ensure that the mounting surface can handle the static weight of the fixture as well as dynamic loading from environmental factors such as wind and snow/ice buildup. The use of Grade 5 or higher hardware is recommended.

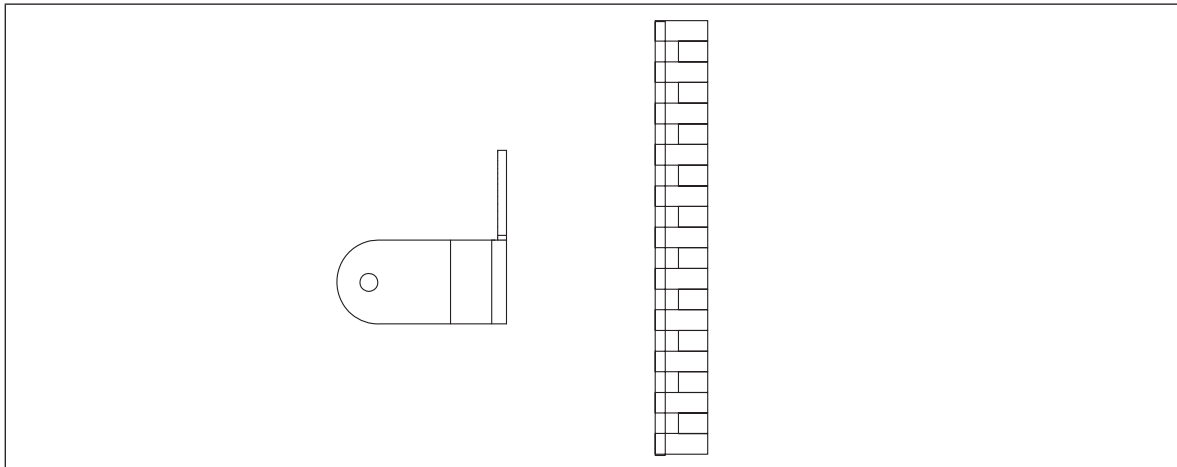
- Make sure that the screws or bolts on the mounting surface align with the holes on the surface mount bracket
- Install the luminaire to the mounting surface and secure using appropriate hardware (by others).

NOTICE The ProPoint Luminaire should be installed with the power and data cables exiting the housing directly down when the luminaire is mounted on a vertical surface. For applications that require horizontal orientation of the power and data cables, the installer shall apply RTV silicone to the cable gland entry points. The luminaire shall not be installed with the power and data cabling oriented up.

Standard Bracket Installation Steps

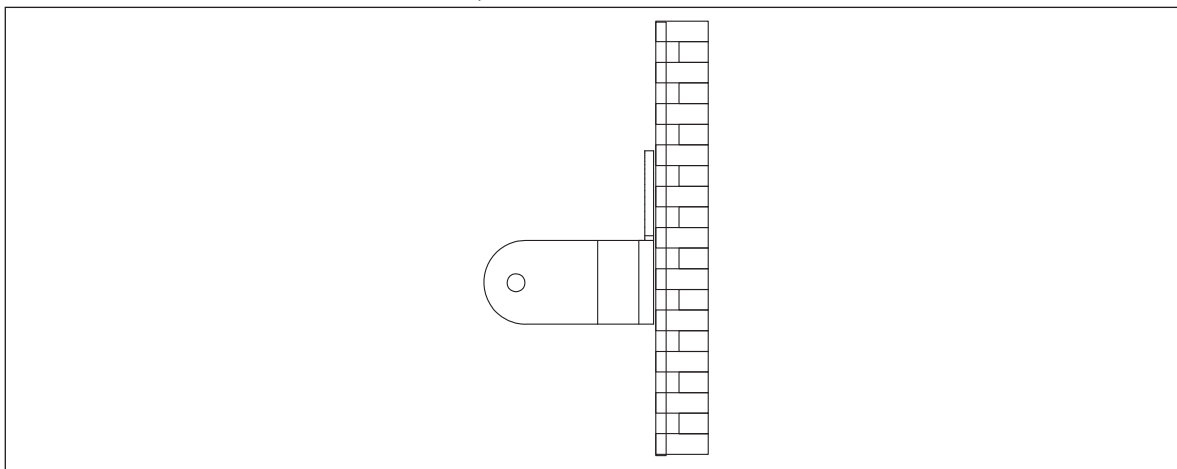
- Place the mounting bracket on the wall, align the holes and mark them and then use an electric drill to make 3 holes for installing M6 expansion screws.

FIG.7: Standard Bracket Installation Step 1



- After aligning the mounting bracket with the 3 holes made above, tighten and fix it with 3 M6 expansion screws.

FIG.8: Standard Bracket Installation Step 2



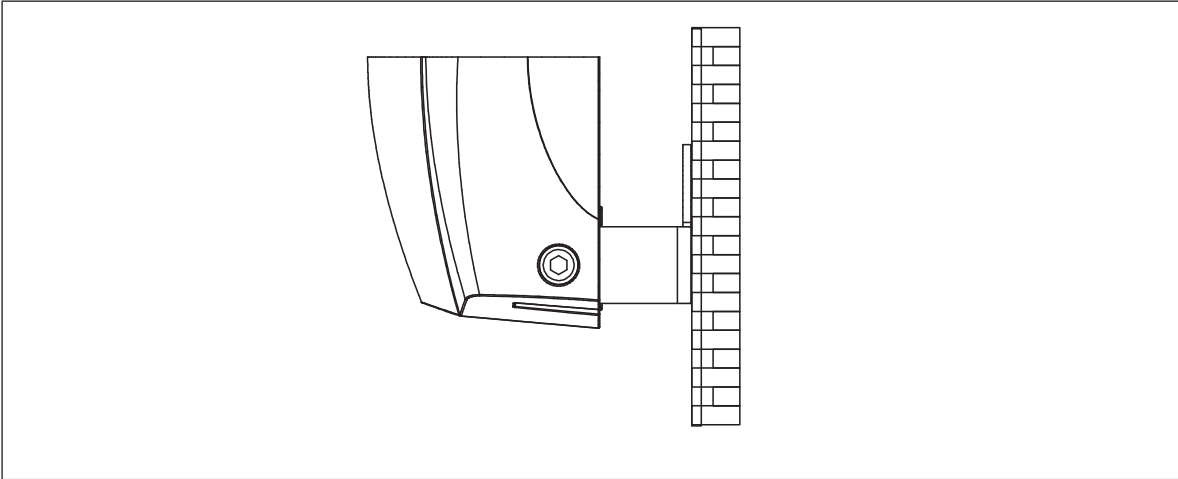
Luminaire Installation

- Assemble the luminaire on the mounting bracket.
- Tighten the set screws on both sides with a 6mm Allen key..

NOTICE

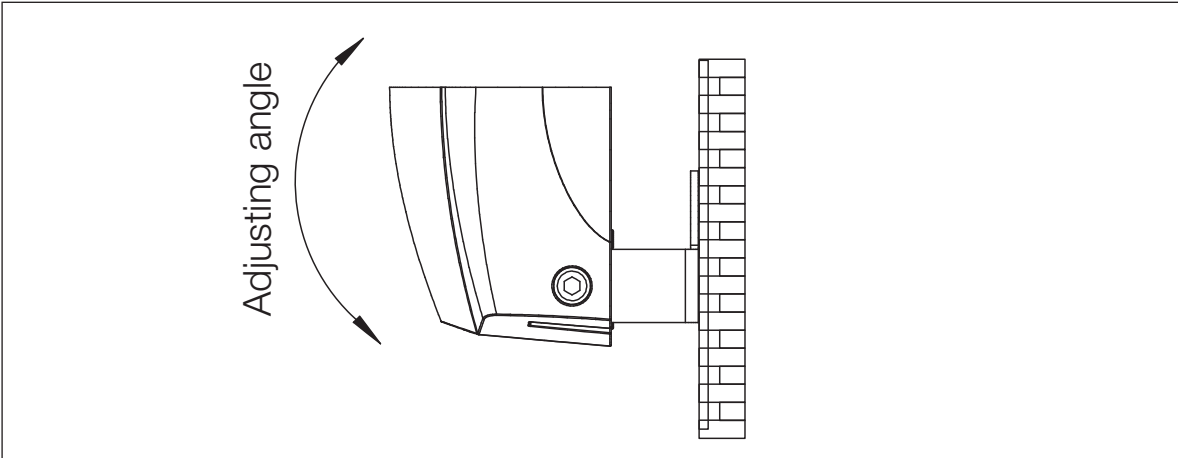
It is the responsibility of the installer to ensure that the mechanical fixings are appropriate for the task and if necessary, approved by a structural engineer as the installation scenario is unique for each luminaire

FIG.9: Luminaire Mounting



- Adjust the luminaire angle with 6mm Allen key according to the actual need on site.

FIG.10: Adjusting angle



2.2 Ground Mounting with Standard Bracket

Required Tools

ProPoint Sconce S/M/L 6mm Allen key

NOTE **DO NOT** choose the location with water accumulation as the ground mounting location.

Preparation

- Remove the ProPoint luminaire from the packaging and place the unit on a level surface.

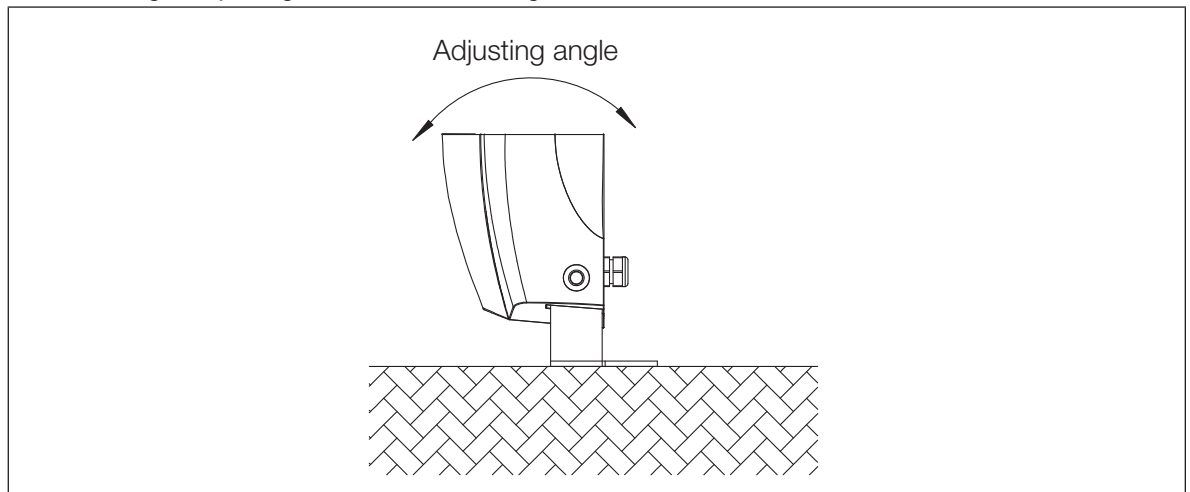
Ground Mounting Steps

- Please refer to wall wanting for ground mounting details.

Adjusting Angle

- Adjust the luminaire angle with 6mm Allen key according to the actual need on site.

FIG.11: Angle Adjusting for Ground Mounting



- After adjusting the luminaire with a proper angle for expected lighting output effect, tighten the set screws on both sides of the bracket with 6mm Allen key.

2.3 Wall Mounting with “Mount Over JBox Bracket” (An Optional Accessory)

Required Tools

ProPoint Sconce S/M/L

6mm Allen key

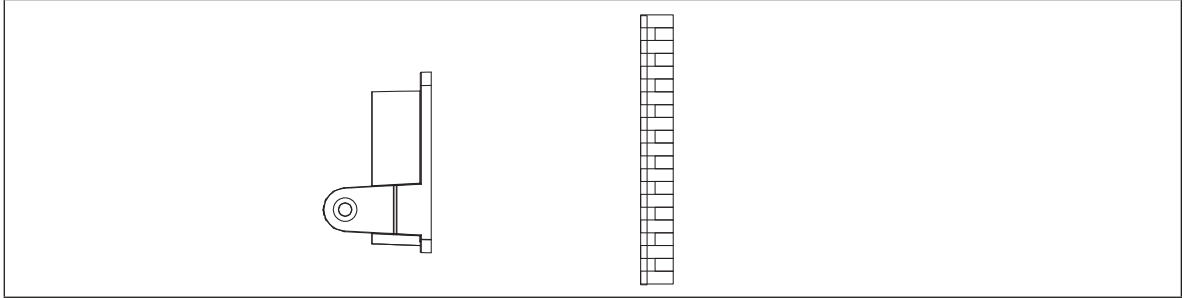
Preparation

- Remove the ProPoint luminaire from the packaging and place the unit on a level surface.

Plate Mounting Steps

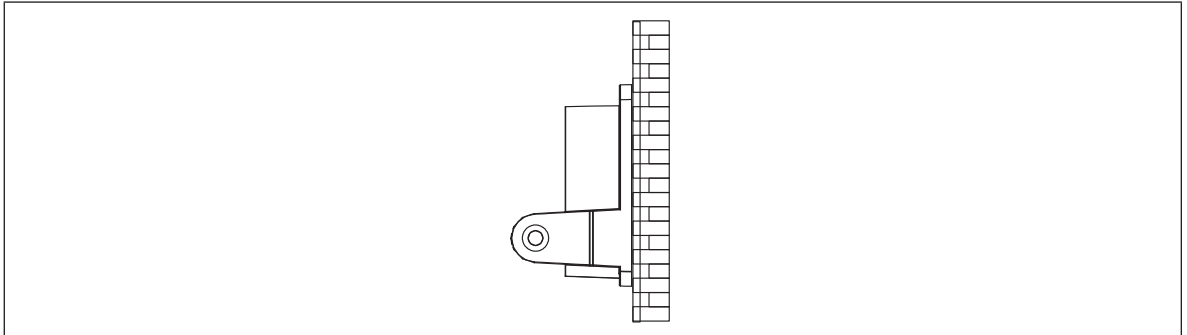
- Place the mounting plate on the wall, align the holes and mark them and then use an electric drill 4 holes for installing M5 expansion screws.

FIG.12: Place the Mounting Plate on the Wall



- After aligning the mounting plate with the 4 holes, tighten and fix it with 4 M5 expansion screws.

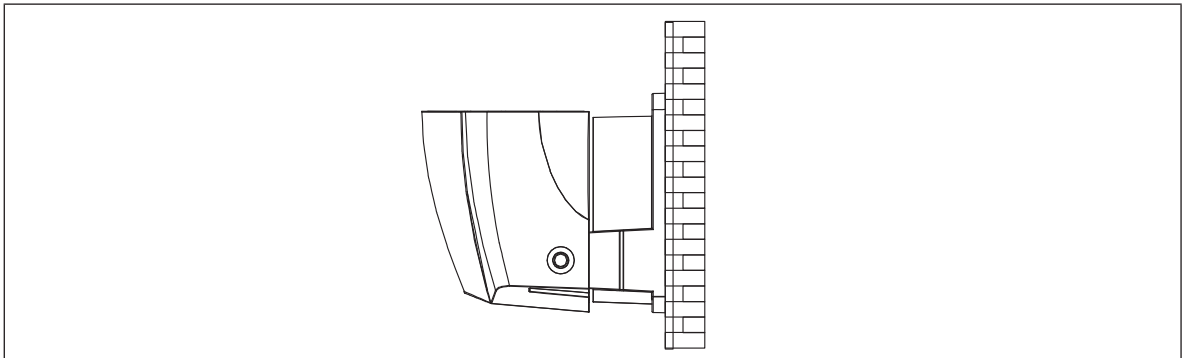
FIG.13: Fix the Mounting Plate on the Wall



Luminaire Installation

- Assemble the luminaire on the mounting plate.
- Tighten the set screws on both sides with a 6mm Allen key.

FIG.14: Luminaire Mounting

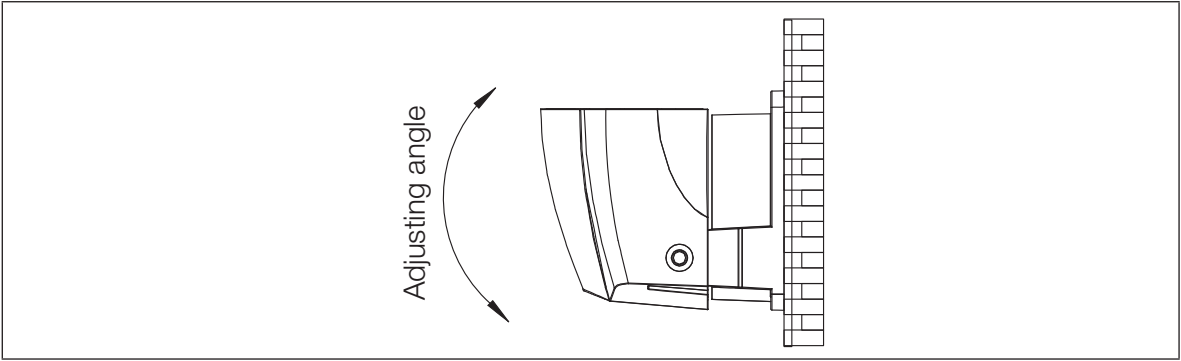


NOTE

For ease of installation and Safety, the following step may require 2 people to perform. This is largely dependent on the location/orientation of the junction box and the size of the fixture being mounted. All installers should refer to their occupational safety and best practice guidelines when performing these tasks.

- Adjust the luminaire angle with 6mm Allen key according to the actual need on site.

FIG.15: Adjusting angle



Recording the UID (DMX/RDM Model Only)

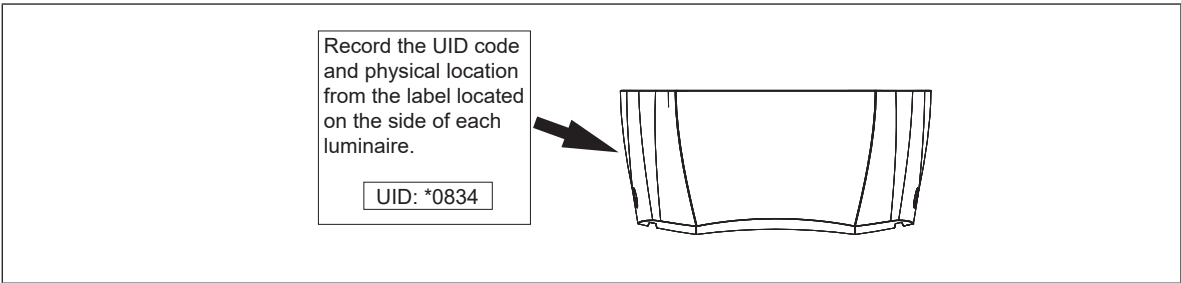
Each ProPoint Sconce luminaire is marked with a Unique Identifier (UID) on the product label. This UID is used to address the luminaire for correct operation.

Example: 16DC:0834AA0B

AA0B represents the designation shown on the label.

Before completing installation, record each luminaire’s UID in a manner similar to the table included at the end of this manual.

FIG.16: UID Location



2.4 Power Wiring

The ProPoint Sconce luminaire is supplied with a 1.8 meter (6 foot) long power feed cable. This cable may be field-cut to the required length by the installer.

- WARNING** Risk of electrical shock. Make sure that the branch circuit is disconnected prior to installation or inspection..
- CAUTION** Make sure that the cable is protected from cuts and abrasions that may result in damage to the outer jacket.
- CAUTION** IP failure induced by stressed/damaged cable entry points during or after installation will void the product warranty.
- NOTICE** A voltage divider is recommended (and may be required by local electrical code) when a single junction box is utilized for termination of the power supply and data cables.
- NOTICE** Cable bend radius must NOT be less than the Minimum Bending Radius (4 X Cable Diameter) as specified by cable manufacturer and the Non-Bendable Length of 5cm (2in) near the cable gland MUST be adhered to. In addition to the Minimum Bending Radius, ensure that 5cm (2in) of cable at the connector junction is kept straight.
- CAUTION** Ensure that the power and data cabling is routed so that the luminaire mounting interface does not crush the power and/or data cable jacketing.
- Tighten both set screws so that each screw engages securely in the surface mount bracket groove.
- CAUTION** Both set screws must engage within the groove. Failure of the set screws to engage the groove could result in the luminaire separating from the surface mount bracket.
- Tighten both lock nuts over the set screws. Grasp the luminaire body and rotate it back and forth on the mounting bracket to ensure that the fixture is securely fastened.
- CAUTION** Do not rotate the luminaire more than 180 degrees. Rotating more than 180 degrees may cause the power and/or data cables to bind inside the unit resulting in damage.

3. POWER AND DATA WIRING

3.1 Data Wiring

The ProPoint Sconce luminaire is supplied with a 1.8 meter (6 foot) long data cable. This cable may be field-cut to the required length by the installer.

The ProPoint Sconce luminaire utilizes a “daisy chain” wiring topology for DMX data communication. Data connections are made via the DMX input and output wiring pairs in the data cable. Utilization of a “star” wiring topology (via t-taps, y-cables, etc.) is not permitted.

Installed data cabling shall conform to the requirements outlined in ANSI E1.11 Entertainment Technology – USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories. All cabling shall utilize stranded conductors. **Solid core conductors shall not be used and can result in denial of warranty.**

A maximum of 32 ProPoint luminaires may be connected to a DMX data line. The maximum overall data line length (from DMX controller to the last unit in the daisy chain) is 300m (984ft).

WARNING Risk of electrical shock. Ensure that branch circuit power is disconnected prior to performing installation or inspection of data wiring.

CAUTION Make sure that the cable is protected from cuts and abrasions that may result in damage to the outer jacket.

CAUTION IP failure induced by stressed/damaged cable entry points during or after installation will void the product warranty.

NOTICE A voltage divider is recommended and may be required by local electrical code) when a single junction box is utilized for both power supply and data cable termination.

NOTICE Cable bend radius must NOT be less than the Minimum Bending Radius (4 x Cable Diameter) as specified by cable manufacturer and the Non-Bendable Length of 5cm (2in) near the cable gland MUST be adhered to. In addition to the Minimum Bending Radius, ensure that 5cm (2in) of cable at the connector junction is kept straight

Installation Steps

1. Determine the required length of data cable. Make sure to account for cable management (routing, drip loops, etc.) prior to removal of unneeded cable.
2. Make sure that there is sufficient cable to account for thermal expansion and contraction.
3. Insert the data cable into the pole. The cable entry points shall be protected with fittings suitable for maintaining a water-tight installation.

NOTICE The use of RTV silicone is required at all terminal box penetration points.

4. Connect the luminaire DMX input and output conductors to the contractor installed DMX wiring.

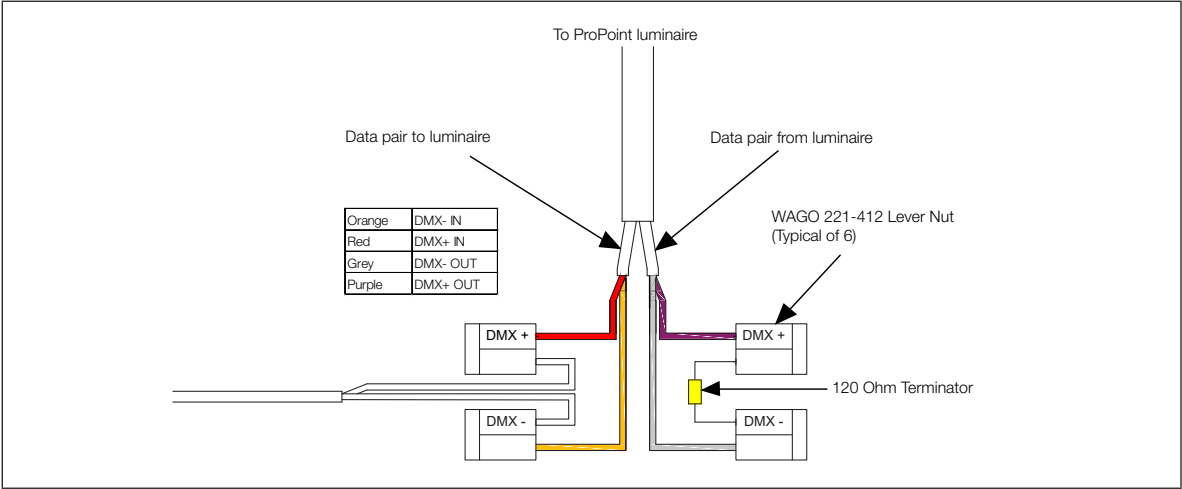
NOTICE All data wire connections shall be made using cage clamp style connectors included in the termination kit (ordered separately). Wire nut connections of the data conductors shall not be used and will void the warranty.

5. Install the termination resistor (included in the termination kit) between the Data - and Data + conductors on the last unit in the control. See Figure 23 for specific wire connections.

NOTICE

Termination is required for proper operation and shall be applied at the last unit of the daisy chain only. Failure to apply termination correctly will void the warranty.

FIG.17: DMX Termination Detail



NOTE

- Maintain data pair wire twist at all connection points.
- To prevent short circuits, do not strip more conductor insulation than required for connection.
- The use of wire nuts is not acceptable and will void the warranty.
- Data termination shall be made in weatherproof enclosure by others. Use suitable cable glands and apply RTV silicone at all entry points.

NOTICE

Data shall enter each luminaire using the DMX In wire pair (Orange and Red conductors). A 120 Ohm termination resistor shall be installed on the DMX Out wire pair (between Grey and Purple conductors). Failure to terminate at the last luminaire will void the warranty and may result in control issues.

FIG.18: DMX Termination Detail

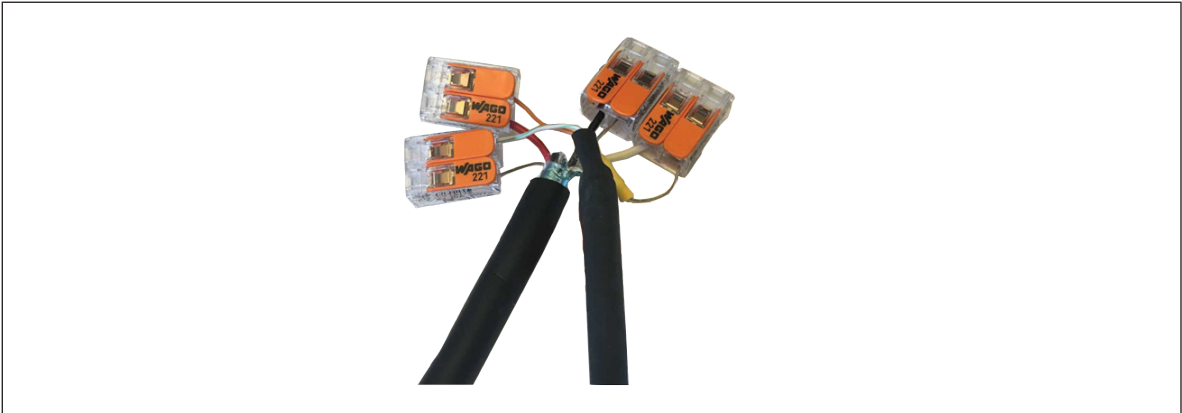
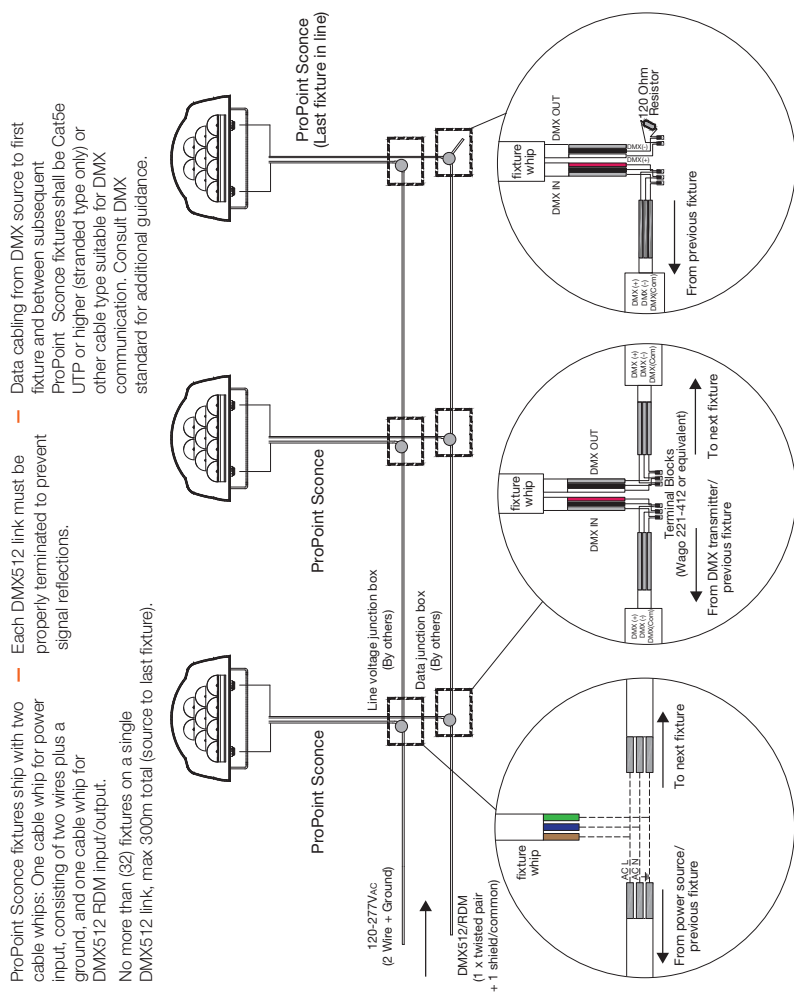


FIG.19: Wiring Details



General Notes

- All data cabling must adhere to ANSI E1.11-2008 (R2013) – Entertainment Technology – USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories. Fixture is RDM compatible.

Wires allow a universal input of 120Vac to 277Vac. Data termination shall utilize cage clamp terminal blocks, or equivalent. Wire nuts are not permissible and will void warranty. The method of line voltage termination, both for data and power, is at the discretion of the installing contractor, and/or engineer. Cables must be spliced/joined in a weatherproof enclosure/junction box, which is to be properly rated and provided by others. Splicing and/or joining of cables must adhere to all applicable electrical codes.

4. CONFIGURATION

4.1 Luminaire Addressing and Control

The ProPoint Sconce utilizes 4 DMX channels for the RGB unit, and 1 DMX channel for the White units.

The ProPoint Sconce luminaires are shipped with a default DMX address of 001. For installations where independent control of luminaires is required, the DMX address will need to be modified using a controller that supports Remote Device Management (RDM).

- Connect an RDM capable control device to the DMX line ahead of the first luminaire.
- Enable RDM discovery per the instructions of the controller manufacturer.
- The controller will discover available ProPoint luminaires. These luminaires can be identified by the prefix 16DC in each unit's UID.
- Using the RDM identify function, locate a single unit in the installation. The associated luminaire will flash.
- Note the physical location of the flashing unit and then disable the identify function.
- Determine the desired address for the identified luminaire and enter it in the address field of the RDM controller.
- Continue the above process until all units have been addressed.
- Record the UID data and associated addresses at the end of this document.
- Test each luminaire to verify correct addressing prior to completing installation.

ProPoint Power-Up and Loss of Data Behavior

The ProPoint Sconce luminaire will exhibit the following behavior upon power-up and loss of DMX data:

Power-Up with no DMX data present	Luminaire will illuminate at full power
Power-Up with DMX data present	Luminaire will respond based on the DMX values being received
Loss of DMX data	Luminaire will hold the last valid DMX values received until a power cycle or until DMX is restored.

DMX Channel Functions

RGBW Unit

DMX Channel	Function
1	Red Intensity
2	Green Intensity
3	Blue Intensity
4	White Intensity

White Unit

DMX Channel	Function
1	White Intensity

Supported RDM Parameters

Parameter ID	Description	Default Value	Note
0x00F0	DMX Start Address	1	
0x1000	Identify Device	0	Changing value to 1 will cause fixture to flash
0x0081	Manufacturer Label	Traxon Technologies	Read Only Parameter
0x0082	Device Label	ProPoint xx	
0x0200	Sensor Definiton	N/A	Read Only Parameter
0x0201	Sensor Value	N/A	Read Only Parameter

Supported RDM Sensors

Sensor Number	Sensor Description	Unit of Measure	Safe Operating Range
#0	Driver Temperature	Celsius	
#1	Drive Voltage	DC Volts	
#2	Driver Current	mA	
#3	On-Line Time	ks	

5. TROUBLESHOOTING

Problem	Cause	Solution
Product does NOT light up after installation	Incorrect Power Connection	<ul style="list-style-type: none">• Check Mains Power• Check power supply leads and wire connections• Ensure output wires are connected with proper polarity
Shadowing	Light source covered	<ul style="list-style-type: none">• Check for cables, wires or unwanted debris covering LED light source
Flickering	Incorrect power input/ Excess products connected	<ul style="list-style-type: none">• Ensure the input voltage is correct• Ensure the power supplies are not overloaded due to an excess of fixtures connected• Ensure that only 32 Devices are connected on single daisy chain, remove any excess devices and power cycle the fixture feed power. Check and see if issue still exists.
All fixtures respond the same to data input	Improper addressing	<ul style="list-style-type: none">• Confirm the fixtures in the run do not share the same address(es)• Readdress fixtures

6. WARRANTY INFORMATION

Traxon Technologies warrants this product against material and workmanship defects for a period of five (5) years from date of purchase, provided that the purchased items are used under the conditions stated in this user manual.

Please refer to www.traxontechnologies.com or www.osram.us/traxon for all warranty terms and conditions.

7.

APPENDIX

UID/Address Recording Table

Luminaire	UID	DMX Address	DMX Universe #	Fixture Mounting Location	Note
Unit 1					
Unit 2					
Unit 3					
Unit 4					
Unit 5					
Unit 6					
Unit 7					
Unit 8					
Unit 9					
Unit 10					
Unit 11					
Unit 12					
Unit 13					
Unit 14					
Unit 15					
Unit 16					
Unit 17					
Unit 18					
Unit 19					
Unit 20					
Unit 21					
Unit 22					
Unit 23					
Unit 24					
Unit 25					
Unit 26					
Unit 27					
Unit 28					
Unit 29					
Unit 30					
Unit 31					
Unit 32					

NOTE

Do not exceed 32 luminaires on a single DMX data line.
Termination resistor must be installed at the last luminaire only.

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