

Cove Light AC HO RGBW

INSTALLATION GUIDE

V1.1



Cover:

Cove Light AC HO-6 RGBW

Cove Light AC HO-12 RGBW

Cove Light AC HO-18 RGBW

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1. INTRODUCTION

1.1 General

Cove Light AC HO RGBW is a slim profile, AC line powered high brightness color linear luminaire. The luminaire is 4 channel RGBW controllable via DMX512. Cove Light AC HO RGBW is suitable for a wide range of lighting applications from alcove to indirect illumination in architecture, hospitality and retail shops. Plug 'n' Play cabling and connection makes installation quick and easy.

Model	Number of LED	Length (mm)
Cove Light AC HO-6 RGBW	24	304
Cove Light AC HO-12 RGBW	48	609
Cove Light AC HO-18 RGBW	72	913

Features:

- Full colour RGBW (White: 3000K)
- IP20
- Diffused PC cover
- Integrated mounting feet with $\pm 90^\circ$ adjustment on beam aiming
- Powered by AC line voltage
- DMX512

1.2 Dimensions

FIG.1: Cove Light AC HO-6 RGBW

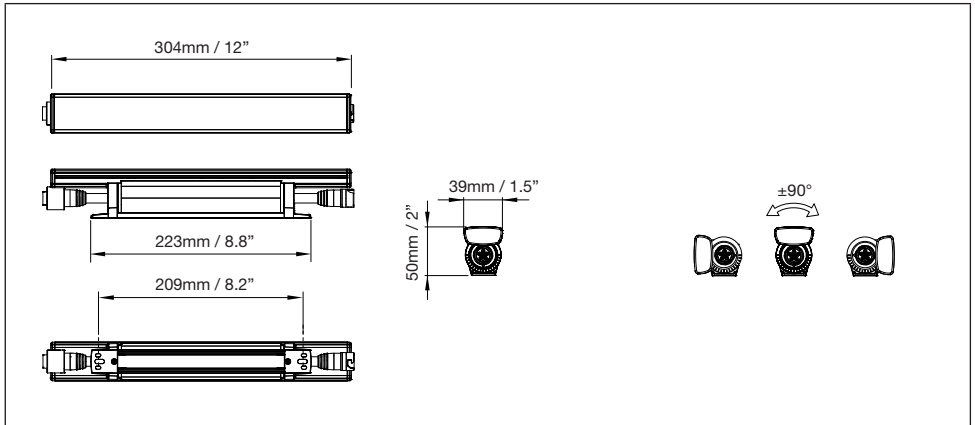


FIG.2: Cove Light AC HO-12 RGBW

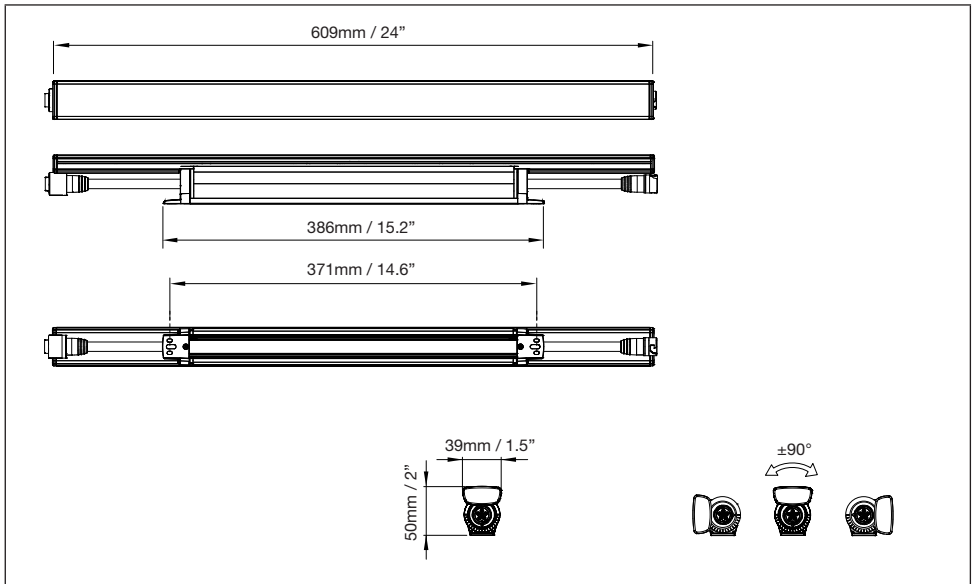
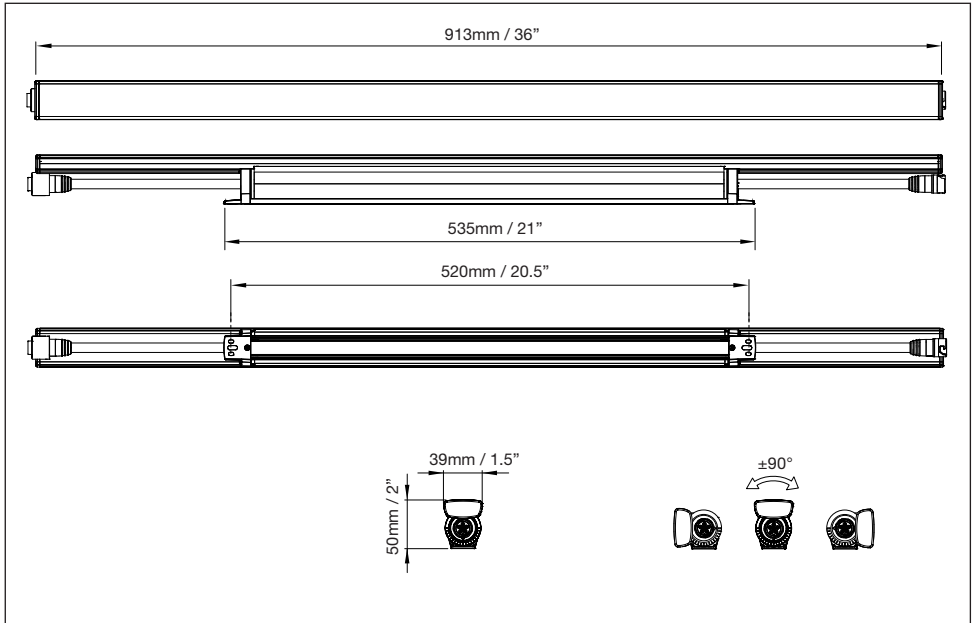
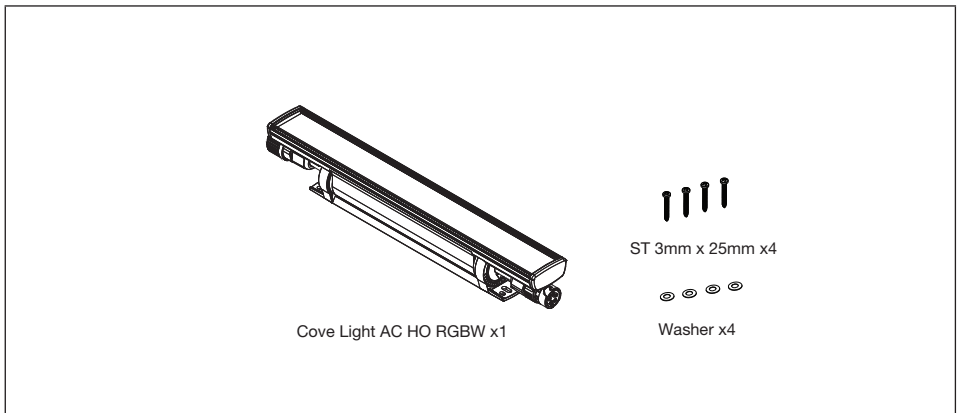


FIG.3: Cove Light AC HO-18 RGBW



1.3 Packing Contents

FIG.4: Packing Contents



2. INSTALLATION

2.1 Points To Consider

Plan your installation before mounting any fixtures. The following should be considered for a successful installation:

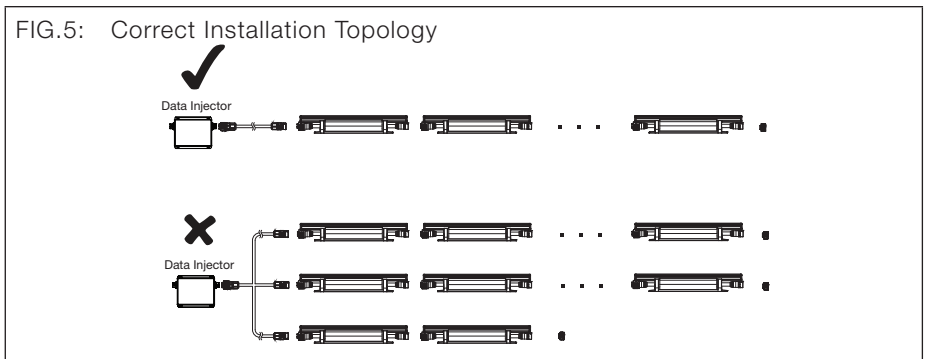
- Installation distances and appropriate cable lengths. For calculating the number of fixtures of your specific application, please consult your local Traxon office or authorized agent for necessary aid.
- The number of data injectors and fixtures.
- Distance between each fixtures.

2.2 Pre-Installation Checks

2.2.1 System Checking

1. Determine the installation location of data injectors and fixtures. Distance between data injector and first fixture should not be more than the limit specified in mounting guide / wiring diagram. In case it is in doubt, consult your local Traxon office or authorized agent.
2. All fixtures must be installed in daisy-chain. Do not connect fixtures as a star connection.

FIG.5: Correct Installation Topology



3. Each data injector can connect up to 32 fixtures regardless of fixture length.
4. Each data injector requires one starter cable to connect to a daisy-chain of fixture. Ensure there are enough data injector(s) and starter cable(s) for installation.
5. If the installation needs interconnection cable for additional length between fixtures, make sure the cable is available.
6. Make sure that all additional parts, supporting equipment and tools necessary for the installation are available. Check the planned physical layout of the installation in case it is in doubt. In the layout, locate all data injectors and fixtures.

2.2.2 Fixture Preparation and Checking

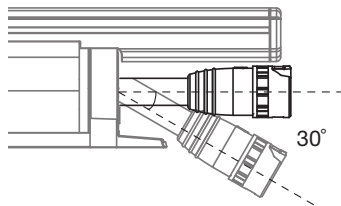
1. Carefully open the package box. Inspect and check the content against the packing contents provided in Installation Guide. Check the content for any visual damage or defect. Check the voltage rating of the fixtures.
2. Report any defect found to your nearest Traxon office or authorized agent. DO NOT attempt to install any fixture with defects.

2.2.3 Cable Bending

Cable must NOT be bent below the Minimum Bending Radius as specified by cable manufacturer:

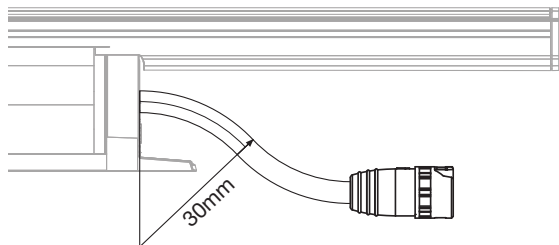
- 1 foot version only allow a maximum bending angle of 30 degree.

FIG.6: Maximum Bending Angle



- 2 feet and 3 feet version cables have a minimum bending radius of 30mm.

FIG.7: Maximum Bending Radius



2.3 On-Site Installation

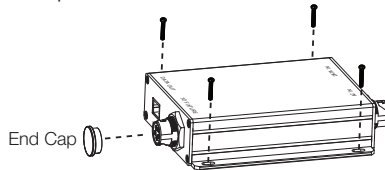


- IP failure induced by stressed/damaged cables during or after installation will not be under warranty by Traxon Technologies.
- ALWAYS keep the cables protected from sharp objects and ensure no damage is generated on the cable.
- Failure to keep Cove Light AC HO RGBWs within the operating temperature range of -20°C to $+45^{\circ}\text{C}$ (-4°F to $+113^{\circ}\text{F}$) and storage temperature range of -40°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$) will void the product's warranty.

2.3.1 Wall Installation

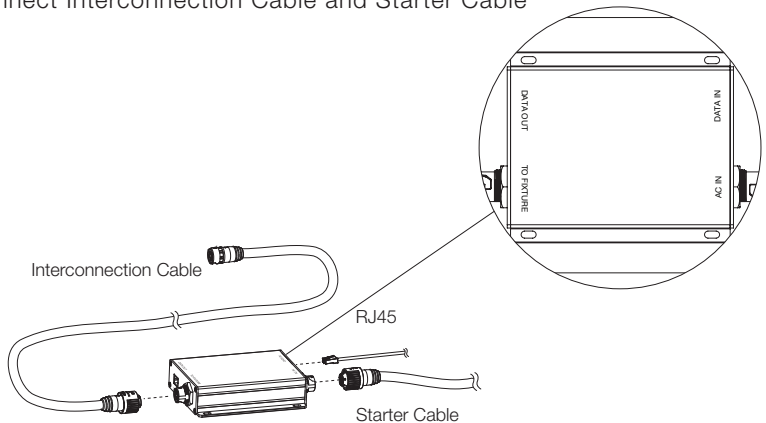
1. Unplug the end cap from data injector and mount it.

FIG.8: Unplug End Cap



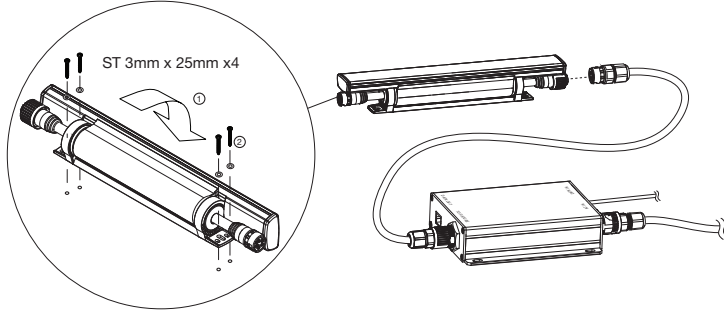
2. Make sure power is off. Connect the starter cable to the AC IN port and RJ45 cable to DATA IN port of data injector box. Connect the Interconnection Cable to the TO FIXTURE port. Connect DATA OUT to other data injector box.

FIG.9: Connect Interconnection Cable and Starter Cable



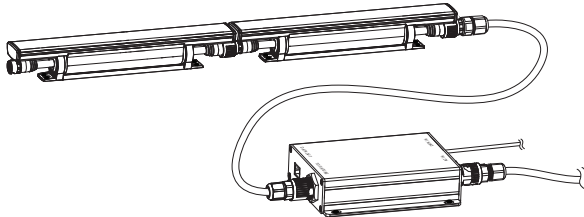
3. Connect the first fixture to data injector, then rotate the fixture to mount it. Make sure that the male connector is connected to the female connector of mounted fixture.

FIG.10: Connect first fixture to data injector



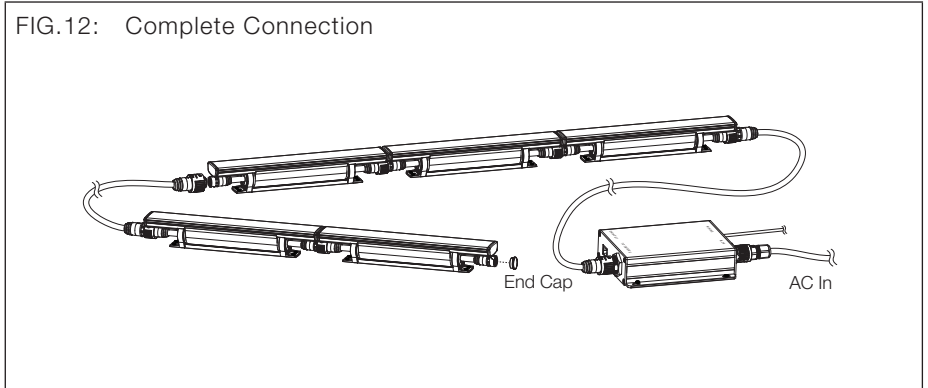
4. Connect and mount other fixtures one by one.

FIG.11: Connect rest of the fixtures



5. Use interconnection cable if fixtures are not adjacent to each other. Plug the end cap to the final fixture of the chain to complete the connection. Connect the starter cable to AC power.

FIG.12: Complete Connection

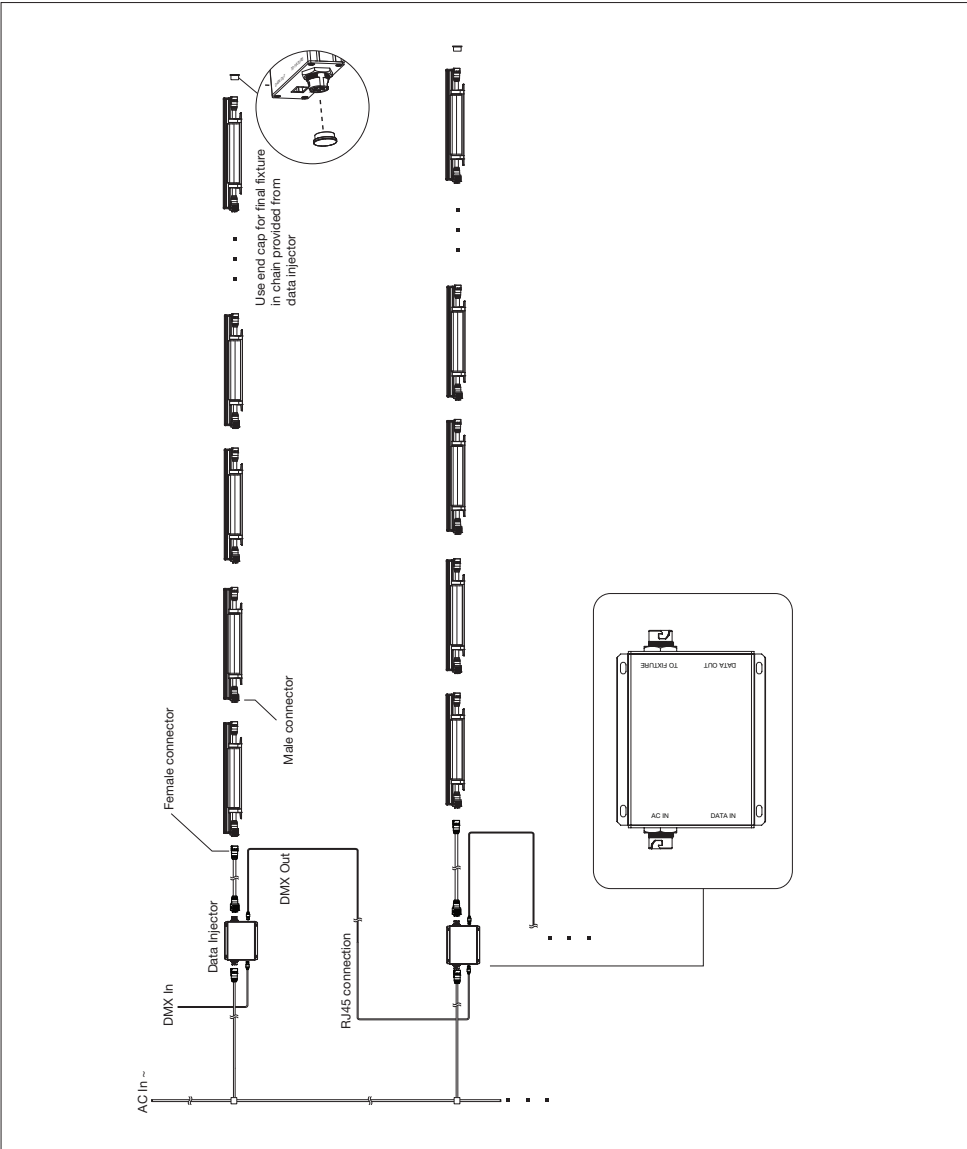


3. SAFETY AND OPERATION

- CAUTION - Unplug the power supply from the mains power before connecting any cables as this can damage the products.
- CAUTION - Avoid looking directly into the LED light source at close range for your own safety.
- Persons installing this product should make sure:
 1. The installation complies with all applicable codes, state and local laws, ordinances, standards and safety regulations.
 2. The installation environment is carefully studied and suitable surge protection measure(s) is taken.
 3. He or she is qualified for the handling of electrical equipment.
- Do not attempt to install or use the product until installation instructions and safety labels are fully understood. This product is designed for indoor use.
- Ensure product operates within the specified temperature range. (Refer to 6. TECHNICAL SPECIFICATION for more details.)
- Do not attempt to open the product. Not user serviceable.
- Do not use the product if any part of it, or the power cables are damaged.
- Only use product for specified voltage, do not exceed. (Refer to 6. TECHNICAL SPECIFICATION for more details.)
- Always maintain connection to ensure waterproofing.
- If the product has been subjected to drastic temperature variances, for example, following transportation, do not connect the fixture until it has reached room temperature, as moisture condensation may cause electric shock and product damages.
- When installing the products and system power supplies, please ensure they will not be exposed to moisture and extreme heat (and direct sunlight for outdoor products). Besides, keep a clean operating environment for the fixtures and system power supplies.
- Please study this Installation Guide thoroughly and check the latest Technical Specification Sheets available from the Traxon website www.traxontechnologies.com before setup.
- Any non-compliance of the Installation Guide will void the Traxon warranty.

4. SYSTEM CONFIGURATION

FIG.13: System Diagram



5. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill any warranty obligations and gain good use and longevity from the products.

- Do not attempt or use the product(s) until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.
- Do not use product(s) if cables are damaged.
- Do not connect cables and connectors when wet or in wet area. Moisture on bare connectors can cause electric shock and damage to product(s).
- Do not use product(s) in extreme heat environment. Ensure there is sufficient airflow and use cool air circulation if required.
- Do not drop, knock, or shake product(s). Rough handling can damage the electronics and void the warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean products. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.
- Do not attempt to service or repair the product(s) unless done by an authorized service personnel. Contact your local Traxon office or distributor for details.
- If the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

6. TECHNICAL SPECIFICATION

Cove Light AC HO RGBW

Light Source:	24 / 48 / 72 High intensity power LEDs
Color Range:	16.7 million additive RGB colors and White
Beam Angle:	120°x120°
Power Input:	120V, 220-240V, 277V AC
Weight:	0.45kg/1lbs; 0.9kg/2.0lbs; 1.2kg/2.7lbs;
Operating Temperature:	-20°C to +45°C (-4°F to +113°F);

As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degradation is a complex function of many factors such as operating efficiency, duration of continuous operation, and operating conditions (e.g. ambient temperature).

Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers “sort” LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process always results in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

7. TROUBLESHOOTING



CAUTION: Ensure power supply is OFF when disconnecting / connecting cables.

Problem	Cause	Possible Solutions
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
Modules are dim	Excess products connected	<ul style="list-style-type: none"> • Ensure the power supplies are not overloaded due to an excess of products connected
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 products connected

If problems persist or the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

8. WARRANTY STATEMENT

Traxon Technologies warrants its Products against material or 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 www.traxontechnologies.com for all warranty terms and conditions.

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AN OSRAM BUSINESS

Please check for the latest updates and changes on the Traxon website.

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