Q-TRAN 03 RGBW Lalo Encapsulated Owner's Manual

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Q-TRAN 03 RGBW Lalo Encapsulated

Product Specifications

1. Product Name: LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface
2. Encapsulation: Polyurethane
3. Indoor/Outdoor: Yes
4. Impact Resistance: IK10
5. Mounting: Surface
6. LED Strips: High quality
7. Light Output: Uniform and luminous

Product Usage Instructions

Installation

The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface are designed for both indoor and outdoor installations. Follow the steps below to install the product:

1. Choose the desired mounting location and ensure it is suitable for surface installation.
2. Ensure the power supply is disconnected before starting the installation process.
3. Position the fixture on the surface and mark the locations for drilling holes.
4. Drill the holes according to the marked locations.
5. Securely attach the fixture to the surface using appropriate screws or mounting brackets.
6. Connect the wires to the input/output connectors as per your requirements (refer to the “Wire Input/Output” section for more details).
7. If necessary, attach the wire end caps to provide a neat finish (refer to the “Input End Cap” and “Output End Cap” sections for more details).
8. Once the installation is complete, connect the power supply and test the functionality of the fixture.

Wire Input/Output
The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface offer various options for wire input/output configuration. Follow the guidelines below to select the appropriate configuration:

- For wire input, choose one of the following options: S1 (Single 1 – Input only), S2 (Single 2 – Input only), P1 (Pass Through 1 – Input/output), P2 (Pass Through 2 – Input/output). Consider bottom feed for continuous mounting.

- For wire output, choose one of the following options: Closed End (No feed), Bare Wire (Standard 24), Connector 6, Connector 24. Consider CLS or BW for typical selections. Request custom length by specifying the desired length next to BW (e.g., BW48).

Input/Output Connectors and Wire Type

The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface are compatible with different input/output connectors and wire types.
The typical selection is BW (Bare Wire). The available options are as follows:

- Input Connector: Connector 6, Connector 24, Bare Wire (Standard 24)
- Output Connector: Connector 6, Connector 24, Bare Wire (Standard 24), Closed End (No feed)
- Wire Type: CL2 (Class 2), CL2P (Plenum Rated – only available with bare wire leads)

Input/Output End Caps
The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface come with standard clear end caps. However, you can select CL (Continuous Run) for continuous installations. The end caps are available for both input and output ends.

Mounting
The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface offer different mounting options to suit your needs:

- Stainless Steel Magnet
- Low Profile Magnet

Finish
The LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface come in two finish options:

- Satin
- Black

Frequently Asked Questions (FAQ)

Q: What is the warranty period for the LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface?
A: The product comes with a 5-year warranty.

Q: Can I make modifications to the product without voiding the warranty?
A: No, any field modifications will void the warranty.

Q: Are the product specifications subject to change?
A: Yes, the specifications are subject to change. Please refer to the latest revision of the user manual for the most up-to-date information.

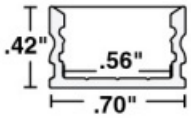
Q: Are the LALO-ENCAPSULATED (03) RGBW Linear Fixtures – Surface compatible with Q-Tran power supplies?
A: Yes, the fixtures are compatible for use with Q-Tran power supplies.

Q: What is the impact resistance rating of the product?

A: The product has an impact resistance rating of IK10.

SPECIFICATION

- Encapsulated with polyurethane for indoor and outdoor locations (IK10)
- Perfect for surface mounted installations
- Features high quality LED strips encapsulated in a rigid extrusion providing a robust fixture for various environments
- Delivers superior uniform light output and luminosity



1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS	7 WIRE INPUT/ OUTPUT	8 CONNECTOR/ WIRE IN	9 CONNECTOR/ WIRE OUT	10 INPUT END CAP	11 OUTPUT END CAP	12 WIRE COLOR	13 WIRE TYPE	14 MOUNTING	15 FINISH	16 LENGTH (IN)	17 EXACT/ OPTIMAL
LL3RGBW			ENC	STD												

Sample Part Number: LL3RGBW-4.0HE-30-ENC-STD-TL-P1-BW-BW-BK-CL2-SST-ST-48″-E

1 PRODUCT

LL3RGBW

See last page for compatible power supplies.

2 WATTS/FT

6.0 6.0W/ft

4.0HE 4.0W/ft HE

3 CCT

27 RGBW-2700K
30 RGBW-3000K

27 RGBW-2700K
30 RGBW-3000K
35 RGBW-3500K
40 RGBW-4000K

4 RATED

ENC IP67

5 EFFICIENCY

STD Standard

6 LENS

CL Clear
TL Translucent

For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages

7 WIRE INPUT/OUTPUT

S1 Single 1 (Input only) - End Feed
S2 Single 2 (Input only) - Bottom Feed

For continuous mounting, consider bottom feed

P1 Pass Through 1 (Input/output) - End Feed
P2 Pass Through 2 (Input/output) - Bottom Feed

For continuous mounting, consider bottom feed

8 CONNECTOR/WIRE IN

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

9 CONNECTOR/WIRE OUT

CLS Closed End (No feed)

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

10 INPUT END CAP

STD Standard
CL Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

11 OUTPUT END CAP

STD Standard
CL Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

12 WIRE COLOR

WH White
BK Black

13 WIRE TYPE

CL2 Class 2
CL2P Plenum Rated

CL2P only available with bare wire leads (BW)

14 MOUNTING

SST Stainless Steel
MG Magnet
M4 Low Profile Magnet

15 FINISH

ST Satin
BK Black

16 LENGTH (IN)

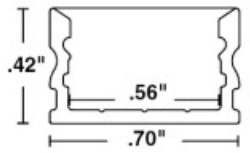
Fixture length min 12", max 98.43" not including end caps.
Tolerance +0 – 1/8". Consult factory for lengths under 12".

17 EXACT/OPTIMAL

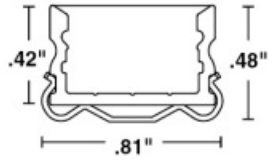
O Optimal Illumination
E Exact Specified Length

Exact fixtures are the exact length specified +0 – 1/8".
Optimal fixtures' length is rounded down with illumination end to end.
See Exact/Optimal Fixture Length charts.

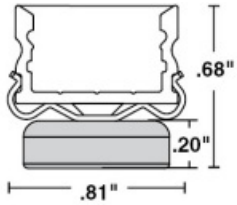
PRODUCT – DIMENSIONS



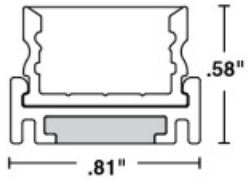
Profile



Profile with
stainless steel mounting clip



Profile with
magnet mounting clip



Profile with
low profile magnet

DELIVERED LUMENS

[Calculated L70 = 40000 hrs] Tested with LL3RGBW-**-30-ENC-STD

	6.0 W/FT				4.0HE W/FT			
	Red	Green	Blue	3000K	Red	Green	Blue	3000K
	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT
CL	27	91	23	72	29	112	24	69
TL	14	48	12	39	16	60	13	37

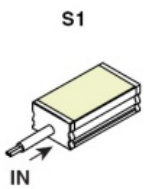
DIODE VISIBILITY

ENC/CL - Clear encapsulation

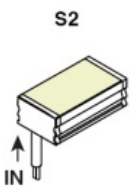
ENC/TL - Translucent encapsulation

WIRE INPUT/OUTPUT

SINGLE (Input only)

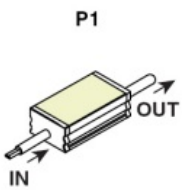


End Feed

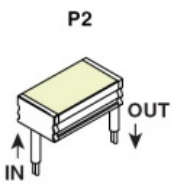


Bottom Feed

PASS THROUGH (Input/Output)

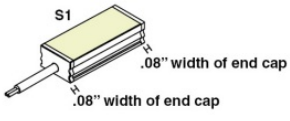


End Feed

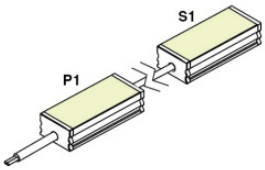


Bottom Feed

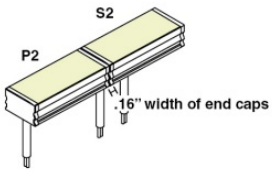
CONFIGURATION OPTIONS



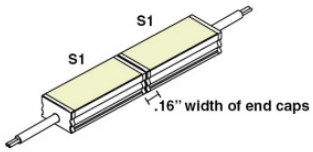
Single End Feed



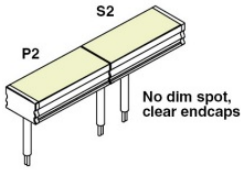
Non-Continuous End Feed



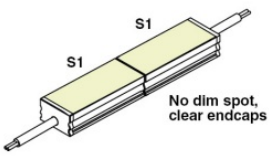
Continuous Bottom Feed



Continuous End to End Feed



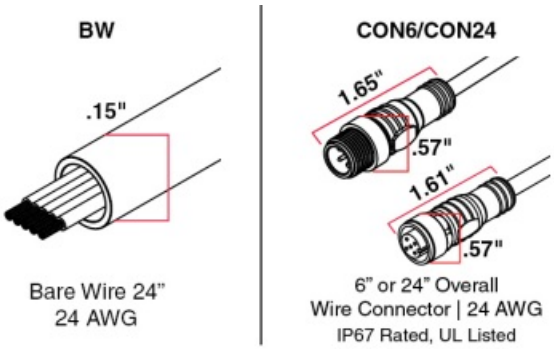
Continuous Bottom Feed



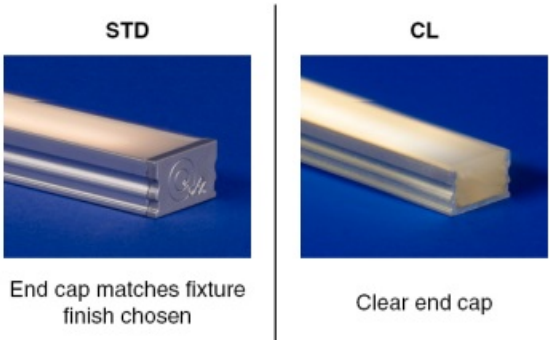
Continuous End to End Feed

CONNECTOR/WIRE – IN/OUT

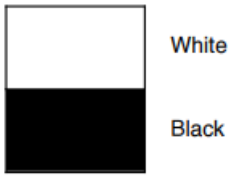
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



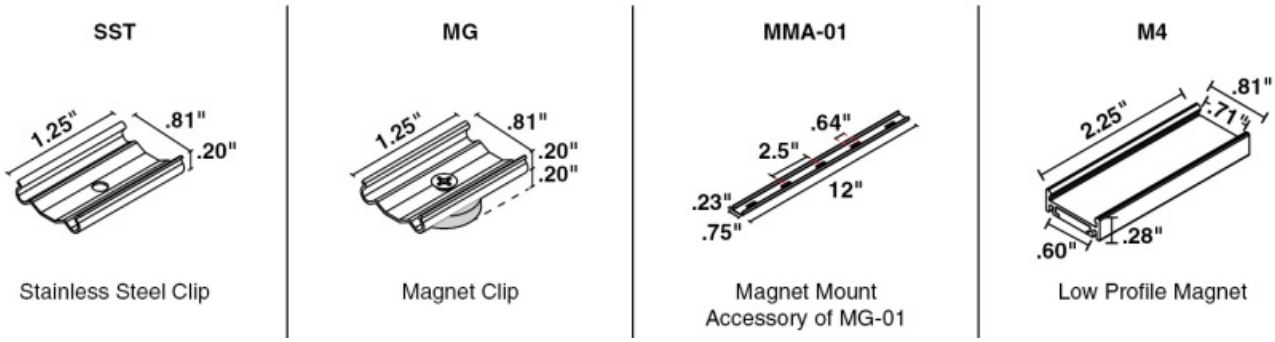
END CAP – IN/OUT



WIRE COLOR



MOUNTING



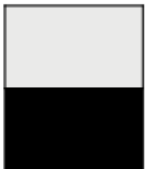
SST
2 clips provided for 4′ or less; 4 clips provided for greater than 4′
To order separately use SST-01
Each clip comes with a #4 x 5/8″ Flat Head screw

MG
One MG provided per foot
To order separately use MG-01

MMA01
Sold separately, to order use
MMA-01 Each bracket comes with 2 #6 x 5/8″ Flat Head SS
Required when mounting to a non-magnetic surface

M4
One M4 provided per foot.
To order separately use MG-04

FINISH



EXACT/OPTIMAL FIXTURE LENGTH

EXAMPLES OF 12″ OPTIMIZED STATIC WHITE FIXTURES WITH DIFFUSED LENS

S1 & S2

P1 & P2

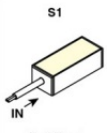
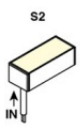
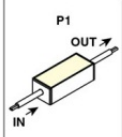
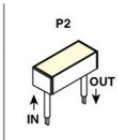
RGBW ENC LENGTHS BY INCH

Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12″.

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	2"
13"	0.5"
14"	1"
15"	1.5"
16"	2"
17"	0.5"
18"	1"
19"	1.5"
20"	2"
21"	0.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
	S1	S2	P1	P2
	 End Feed	 Bottom Feed	 End Feed	 Bottom Feed
12"	8.625"		8.875"	
13"	12.625"		12.875"	
14"	12.625"		12.875"	
15"	12.625"		12.875"	
16"	12.625"		12.875"	
17"	16.625"		16.875"	
18"	16.625"		16.875"	
19"	16.625"		16.875"	
20"	16.625"		16.875"	
21"	20.625"		20.875"	
22"	20.625"		20.875"	
23"	20.625"		20.875"	
24"	20.625"		20.875"	
36"	32.625"		32.875"	
48"	44.625"		44.875"	
60"	56.625"		56.875"	
72"	68.625"		68.875"	
84"	80.625"		80.875"	
96"	92.625"		92.875"	

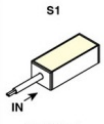
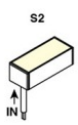
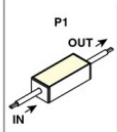
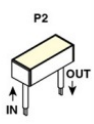
RGBW-HE ENC LENGTHS BY INCH

Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12″.

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
	 End Feed	 Bottom Feed	 End Feed	 Bottom Feed
12"	10.5"		10.75"	
13"	12.5"		12.75"	
14"	12.5"		12.75"	
15"	14.5"		14.75"	
16"	14.5"		14.75"	
17"	16.5"		16.75"	
18"	16.5"		16.75"	
19"	18.5"		18.75"	
20"	18.5"		18.75"	
21"	20.5"		20.75"	
22"	20.5"		20.75"	
23"	22.5"		22.75"	
24"	22.5"		22.75"	
36"	34.5"		34.75"	
48"	46.5"		46.75"	
60"	58.5"		58.75"	
72"	70.5"		70.75"	
84"	82.5"		82.75"	
96"	94.5"		94.75"	

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	**RGBW, RGBW-HE**
0.1%	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
1%	QTM-eLED+DALI-DT8	QOM-eLED+DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

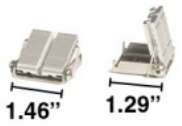
DIMMING PROTOCOL	**INDOOR**	**OUTDOOR**
	RGBW, RGBW-HE	**RGBW, RGBW-HE**
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QTM-eLED+DALI-DT8	QOM-eLED+DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M

Adjustable mounting bracket - Medium

HINGE - HMB-L



Adjustable mounting bracket - Large

HINGE - HMB-XL

Adjustable mounting bracket - XLarge

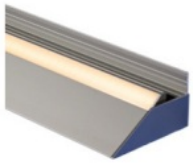
Q-PIVOT

Small mounting accessory

Q-ANGLE

Adjustable mounting accessory

QUOVA-STANDARD



QUOVA Knife Edge

COMPATIBLE WIRING ACCESSORIES

CON-EXT

10ft Con cable extender

CON FOUR-FER

Splits lead from one to four LED Con connectors

CON M - BARREL F

Male con to barrel cable adaptor

COMPATIBLE CONTROL ACCESSORIES

5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with Q-Tran power supplies | IK10 rated

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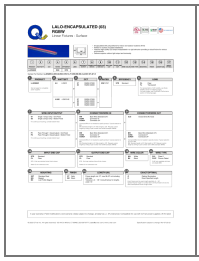
Documents / Resources

	Q-TRAN 03 RGBW Lalo Encapsulated [pdf] Owner's Manual 03 RGBW Lalo Encapsulated, 03 RGBW, Lalo Encapsulated, Encapsulated

References

- Your Name as Your Email | Hover Realnames
- LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran
- LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran
- User Manual

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