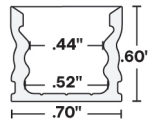
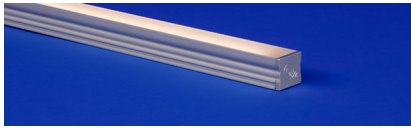




# ESSENTIALS TORQ- ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



- Surface mount linear fixture
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation available in clear or translucent
- Suitable for indoor and outdoor locations (IK10)
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish or clear end caps to achieve seamless appearance of long runs
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	EXTERNAL LOUVER	WIRE INPUT/OUTPUT	CONNECTOR / WIRE IN	CONNECTOR / WIRE OUT	INPUT END CAP	OUTPUT END CAP	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/OPTIMAL
TQ3DW			ENC														

Sample Part Number: **TQ3DW-6.0-24/30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-BK-48"-E**

1

PRODUCT

TQ3DW

LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.

2

WATTS/FT

1.5HE1.5W/ft HE

2.5HE2.5W/ft HE

3

CCT

24/302400K/3000K

27/402700K/4000K

4

RATED

ENCIP67

5

EFFICIENCY

STDStandard

WOWhite Optics

WhiteOptics - Internal coating, greater lumen output

6

LENS

CLClear

TLTranslucent

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

7

EXTERNAL LOUVER

L1-WHWhite Plastic

L1-BKBlack Plastic

N/ANo Louver

Louvers are shipped separately and require field assembly

8

WIRE INPUT/OUTPUT

S1Single 1 (Input only) - End Feed

S2Single 2 (Input only) - Bottom Feed

S3Single 3 (Input only) - Left Side Feed

S4Single 4 (Input only) - Right Side Feed

For continuous mounting, consider bottom or side feed

P1Pass Through 1 (Input/output) - End Feed

P2Pass Through 2 (Input/output) - Bottom Feed

P3Pass Through 3 (Input/output) - Left Side Feed

P4Pass Through 4 (Input/output) - Right Side Feed

For continuous mounting, consider bottom or side feed

9

CONNECTOR/WIRE IN

BWBare Wire (Standard 24")

CON6Connector 6"

CON24Connector 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)

BWBare Wire (Standard 24")

CON6Connector 6"

CON24Connector 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)

10

CONNECTOR/WIRE OUT

CLS

Closed End (No feed)

BWBare Wire (Standard 24")

CON6Connector 6"

CON24Connector 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)

11

INPUT END CAP

STDStandard

CLClear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

12

OUTPUT END CAP

STDStandard

CLClear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

13

WIRE COLOR

WHWhite

BKBlack

14

WIRE TYPE

CL2Class 2

CL2PPlenum Rated

CL2P only available with bare wire leads (BW)

15

MOUNTING

SSTStainless Steel

M4Low Profile Magnet

MGMagnet

16

FINISH

STSatin

BKBlack

BZBronze

CUCustom

17

LENGTH (IN)

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

18

EXACT/OPTIMAL

O

E

Optimal Illumination  
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.

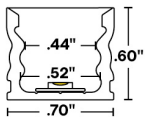
5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | Florida Fish and Wildlife Conservation Commission (FWC) rated Strips: Red and Amber | IK10 rated



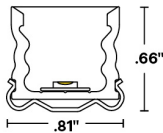
# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

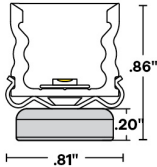
## 1 PRODUCT - DIMENSIONS



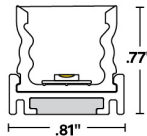
Profile



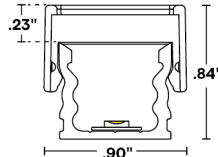
Profile with stainless steel mounting clip



Profile with magnet mounting clip



Profile with low profile magnet



Profile with plastic louver

## 2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]  
Tested with TQ3DW-\*\*-30-ENC-STD

	1.5HE W/FT		2.5HE W/FT	
	LM/FT	CRI	LM/FT	CRI
CL	96	98	151	98
TL	80	98	127	98

[Calculated L70 = 40000 hrs]  
Tested with TQ3DW-\*\*-30-ENC-WO

	1.5HE W/FT		2.5HE W/FT	
	LM/FT	CRI	LM/FT	CRI
CL	103	98	163	98
TL	91	98	143	98

## 6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

## TEMPERATURE RATINGS

	DW 1.5 HE W/FT				DW 2.5 HE W/FT			
	Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply	
	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	135°F	-4°F	120°F	-4°F	125°F	-4°F	105°F

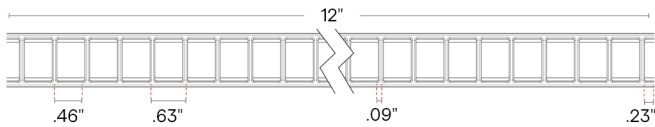


# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

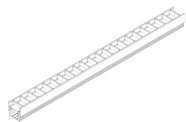
24VDC Linear Fixtures - Surface & Recessed

## 7 EXTERNAL LOUVER

PLASTIC



L1-XX

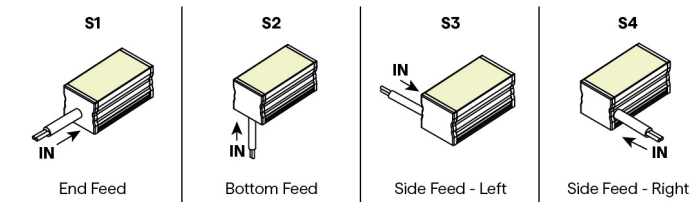


Lumen Multiplier

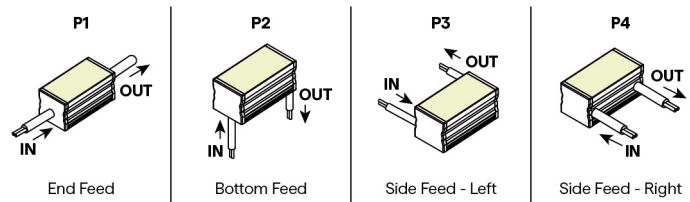
WH	BK
0.72	0.53

## 8 WIRE INPUT/OUTPUT

SINGLE (Input only)



PASS THROUGH (Input/Output)

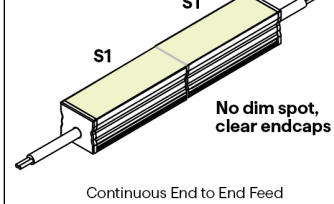
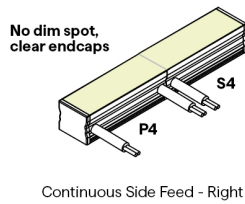
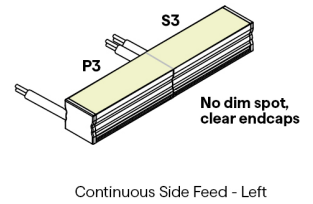
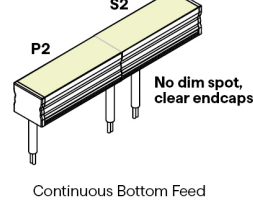
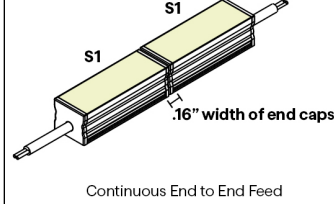
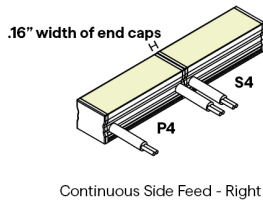
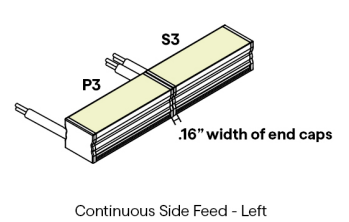
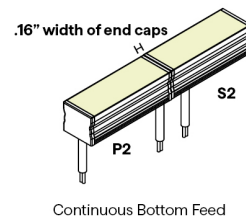
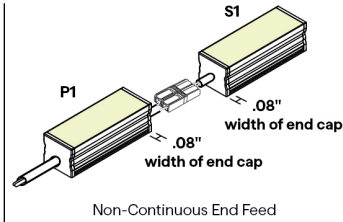
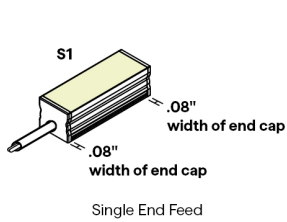




# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

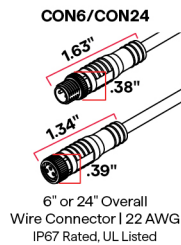
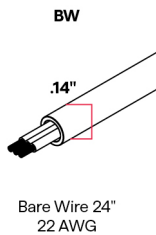
24VDC Linear Fixtures - Surface & Recessed

## CONFIGURATION OPTIONS



## 9 / 10 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



## 11 / 12 END CAP - IN/OUT





# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

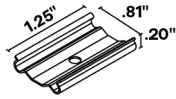
24VDC Linear Fixtures - Surface & Recessed

## 13 WIRE COLOR



## 15 MOUNTING

### SST



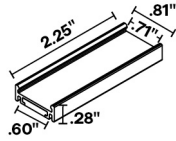
Stainless Steel Clip

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

### M4



Low Profile Magnet

One M4 provided per foot

To order separately use MG-04

### MMA-04



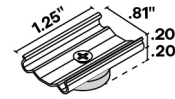
Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

### MG

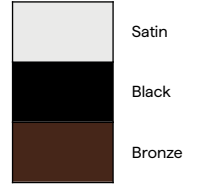


Magnet Clip

One MG provided per foot

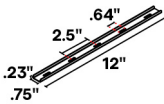
To order separately use MG-01

## 16 FINISH



Custom color available

### MMA-01



Magnet Mount Accessory of MG-01

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

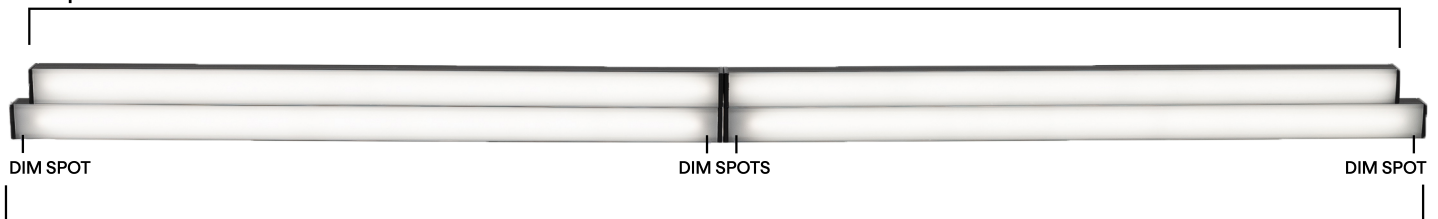
## 18 EXACT/OPTIMAL FIXTURE LENGTH

[E/O Length Calculator →](#)

[E/O Explained →](#)

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

### Optimal Fixtures



### Exact Fixtures



# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

## WD, DW-HE ENC LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. 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		S3 & S4		P3 & P4	
	S1 End Feed IN	S2 Bottom Feed IN	P1 End Feed IN	P2 Bottom Feed IN	S3 Side Feed - Left IN	S4 Side Feed - Right IN	P3 Side Feed - Left IN	P4 Side Feed - Right IN
12"		10.41"		10.66"		10.26"		10.36"
13"		12.41"		12.66"		12.26"		12.36"
14"		12.41"		12.66"		12.26"		12.36"
15"		14.41"		14.66"		14.26"		14.36"
16"		14.41"		14.66"		14.26"		14.36"
17"		16.41"		16.66"		16.26"		16.36"
18"		16.41"		16.66"		16.26"		16.36"
19"		18.41"		18.66"		18.26"		18.36"
20"		18.41"		18.66"		18.26"		18.36"
21"		20.41"		20.66"		20.26"		20.36"
22"		20.41"		20.66"		20.26"		20.36"
23"		22.41"		22.66"		22.26"		22.36"
24"		22.41"		22.66"		22.26"		22.36"
36"		34.41"		34.66"		34.26"		34.36"
48"		46.41"		46.66"		46.26"		46.36"
60"		58.41"		58.66"		58.26"		58.36"
72"		70.41"		70.66"		70.26"		70.36"
84"		82.41"		82.66"		82.26"		82.36"
96"		94.41"		94.66"		94.26"		94.36"

## 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
	DW-HE Warm Dim Applications	DW-HE Warm Dim Applications
0.1%	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	Q-SET-QZ-DW QOM-eLED+WD QZ-DW
1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle	



# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Warm Dim Applications	DW-HE Warm Dim Applications
Phase	QZ-DW	Q-SET-QZ-DW QZ-DW
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	Q-SET-QZ-DW QOM-eLED+WD QZ-DW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	
DALI-2: DT6 LED wattage must be doubled for DW-HE products	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QOM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	

## COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M

1.41" .71"

Adjustable mounting bracket - Medium

HINGE - HMB-L

1.46" 1.29"

Adjustable mounting bracket - Large

HINGE - HMB-XL

1.46" 4"

Adjustable mounting bracket - XLarge

Q-PIVOT

.75" 1.03"

Small mounting accessory

Q-ANGLE

2.23" 1.38"

Adjustable mounting accessory

NJ-MEDIUM

J Mounting Bracket

NJ-LARGE

J Mounting Bracket

SD-J-LARGE

J Mounting Bracket

NU-LARGE

U Mounting Bracket

BL-LARGE

Backwards L Mounting Bracket

NL-LARGE

L Mounting Bracket

SD-L-LARGE

L Mounting Bracket

## COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80" 2.27"

UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

CON120-EXT

10ft Con cable extender DRY/DMP/WET

CON FOUR-FER

Splits lead from one to four LED Con connectors DRY/DMP/WET

CON M - BARREL F

Male con to barrel cable adaptor DRY/DMP



# ESSENTIALS TORQ-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

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## COMPATIBLE CONTROL ACCESSORIES

### SCENE APP DONGLE



Wi-Fi or Bluetooth  
Connectivity

## COMPATIBLE APPS

### NFC APP



Read and write  
DMX addresses and  
adjust voltage