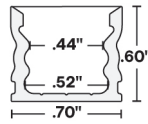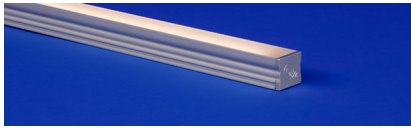# ESSENTIALS TORQ-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

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 where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled
- Optional plastic louver accessory available in white or black for added glare control

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS
TQ3DW			ENC		

ADDITIONAL INFORMATION REQUIRED TO ORDER

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

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

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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

1.5HE	1.5W/ft HE
2.5HE	2.5W/ft HE

3 CCT

24/30	2400K/3000K
27/40	2700K/4000K

4 RATED

ENC	IP67

5 EFFICIENCY

STD	Standard
WO	White Optics

WhiteOptics - Internal coating, greater lumen output

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
For optional snap-on louver ordering, see External Louver Accessory section on following pages

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7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	End Feed
S2	Bottom Feed
S3	Left Side Feed
S4	Right Side Feed

For continuous mounting, consider bottom or side feed

PASS THROUGH (Input/output)

P1	End Feed
P2	Bottom Feed
P3	Left Side Feed
P4	Right Side Feed

For continuous mounting, consider bottom or side feed

8 CONNECTOR/WIRE IN

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

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"

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"

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
M4	Low Profile Magnet
MG	Magnet

15 FINISH

ST	Satin
BK	Black
BZ	Bronze
CU	Custom

16 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

17 EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.
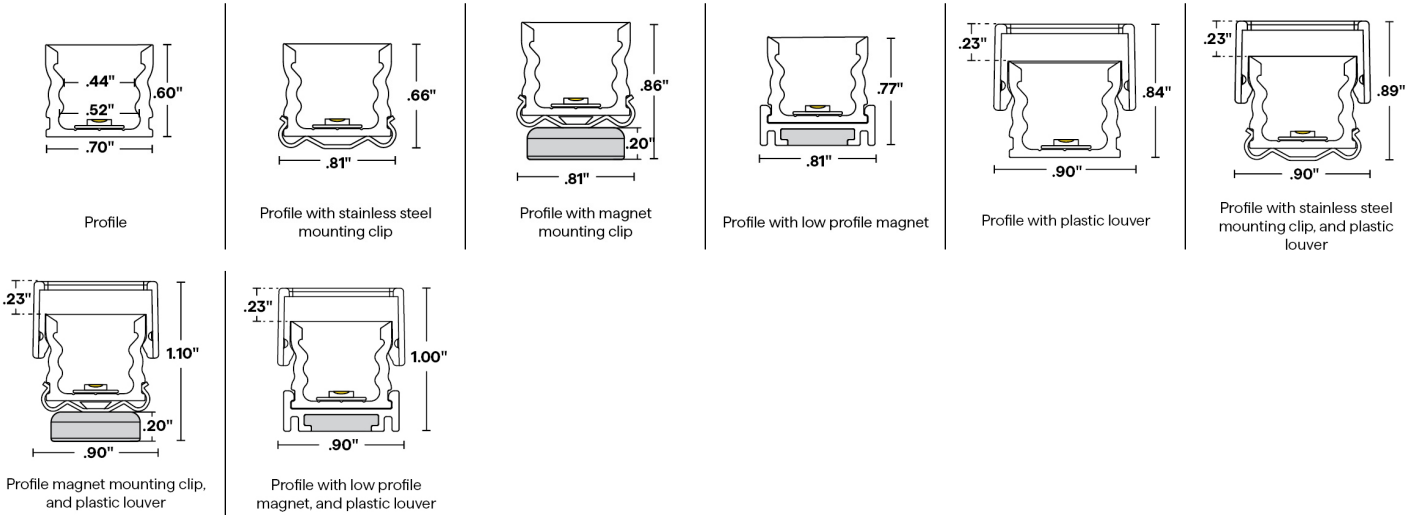
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5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | IK10 rated

1 PRODUCT - DIMENSIONS

Profile

Profile with stainless steel mounting clip

Profile with magnet mounting clip

Profile with low profile magnet

Profile with plastic louver

Profile with stainless steel mounting clip, and plastic louver

Profile magnet mounting clip, and plastic louver

Profile with low profile magnet, and 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
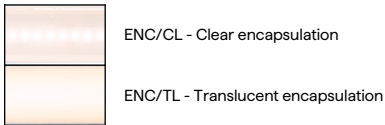
TEMPERATURE RATINGS

	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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	S2	S3	S4
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right

PASS THROUGH (Input/Output)
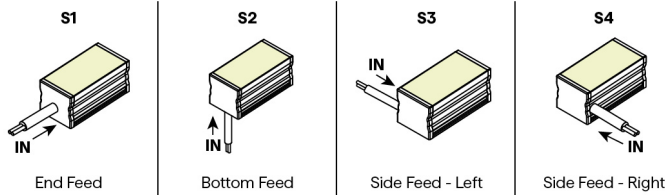
P1	P2	P3	P4
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right

CONFIGURATION OPTIONS

S1 .08" width of end cap .08" width of end cap
Single End Feed

P1 S1 .08" width of end cap
Non-Continuous End Feed

.16" width of end caps S2 P2
Continuous Bottom Feed

P3 S3 .16" width of end caps
Continuous Side Feed - Left

.16" width of end caps S4 P4
Continuous Side Feed - Right

S1 S1 .16" width of end caps
Continuous End to End Feed

S2 P2 No dim spot, clear endcaps
Continuous Bottom Feed

P3 S3 No dim spot, clear endcaps
Continuous Side Feed - Left

No dim spot, clear endcaps S4 P4
Continuous Side Feed - Right

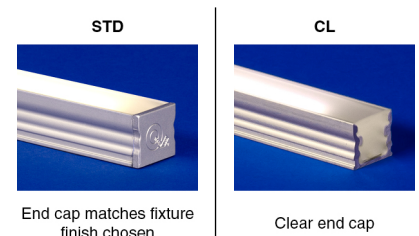S1 S1 No dim spot, clear endcaps
Continuous End to End Feed
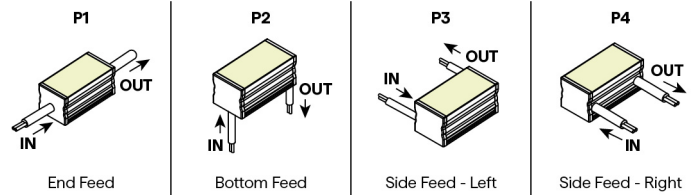
8 / 9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out
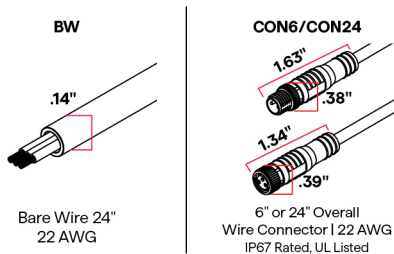
BW
.14"
Bare Wire 24"
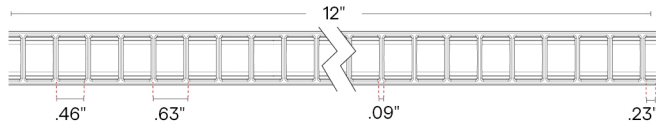22 AWG

CON6/CON24
1.63" .38"
1.34" .39"
6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

10 / 11 END CAP – IN/OUT

STD	CL
End cap matches fixture finish chosen	Clear end cap

EXTERNAL LOUVER ACCESSORY

PLASTIC

12"

.46" .63" .09" .23"

L1-XX

.23"

.84"

.90"

Profile with plastic louver

To order separately use
TORQ-L1-FLAT-KIT-WH or
TORQ-L1-FLAT-KIT-BK
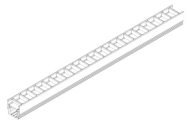
Lumen Multiplier

WH	BK
0.70	0.49

---

12 WIRE COLOR
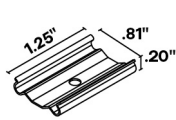
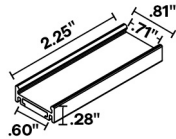|	
	White
	Black

---

14 MOUNTING

SST

1.25" .81" .20"

Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01
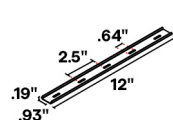
Each clip comes with a #4 x 5/8" Flat Head screw

M4

2.25" .81" .7"

.60" .28"

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04

.64"

2.5" 12"

.19" .93"
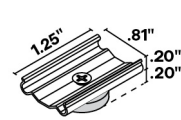
Magnet Mount
Accessory for M4

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

1.25" .81" .20" .20"

Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01

.64"

2.5" 12"

.23" .75"

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

---

15 FINISH

|	
	Satin
	Black
	Bronze

Custom color available

---

17 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

DIM SPOT   DIM SPOTS   DIM SPOT
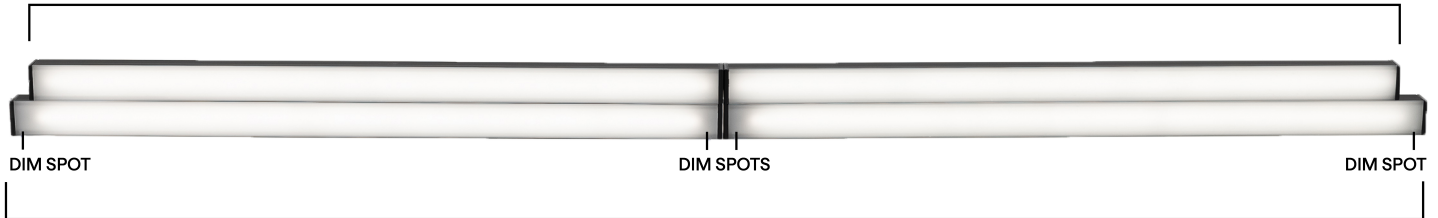
Exact Fixtures

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	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed	S3 Side Feed - Left	S4 Side Feed - Right	P3 Side Feed - Left	P4 Side Feed - Right
12"	10.51"		10.86"		10.41"		10.51"	
13"	12.51"		12.86"		12.41"		12.51"	
14"	12.51"		12.86"		12.41"		12.51"	
15"	14.51"		14.86"		14.41"		14.51"	
16"	14.51"		14.86"		14.41"		14.51"	
17"	16.51"		16.86"		16.41"		16.51"	
18"	16.51"		16.86"		16.41"		16.51"	
19"	18.51"		18.86"		18.41"		18.51"	
20"	18.51"		18.86"		18.41"		18.51"	
21"	20.51"		20.86"		20.41"		20.51"	
22"	20.51"		20.86"		20.41"		20.51"	
23"	22.51"		22.86"		22.41"		22.51"	
24"	22.51"		22.86"		22.41"		22.51"	
36"	34.51"		34.86"		34.41"		34.51"	
48"	46.51"		46.86"		46.41"		46.51"	
60"	58.51"		58.86"		58.41"		58.51"	
72"	70.51"		70.86"		70.41"		70.51"	
84"	82.51"		82.86"		82.41"		82.51"	
96"	94.51"		94.86"		94.41"		94.51"	

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

| DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Tunable Applications	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN	QOM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	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 except for AWN	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 TW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	NJ-MEDIUM	NJ-LARGE	SD-J-LARGE	NU-LARGE	BL-LARGE
1.41" .71"	1.46" 1.29"	4" 1.46"	.75" 1.03"	2.23" 1.38"					
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory	J Mounting Bracket	J Mounting Bracket	J Mounting Bracket	U Mounting Bracket	Backwards L Mounting Bracket

NL-LARGE	SD-L-LARGE
L Mounting Bracket	L Mounting Bracket

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80" 2.27"
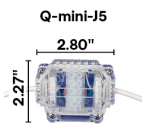
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36" 2.58"

Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage