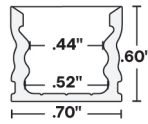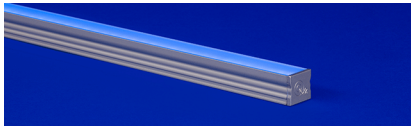# ESSENTIALS TORQ-ENCAPSULATED (03) STATIC COLOR

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
- Red, Green, Blue or Amber LEDs available
- QTL Red & Amber LED products are Florida Fish and Wildlife Conservation Commission certified, making them safe for turtles and other wildlife
- Optional plastic louver accessory available in white or black for added glare control

Dimensions: .44", .52", .60", .70"

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS
TQ3SC	5.0		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: TQ3SC-5.0-G-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E

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1 PRODUCT

TQ3SC

See following pages for compatible power supplies.

2 WATTS/FT

5.0   5.0W/ft

3 CCT

A	Amber
B	Blue
G	Green
R	Red

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")
BRL	Barrel
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")
BRL	Barrel
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")
BRL	Barrel
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
N/A	For Barrel

13 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated
N/A	For Barrel

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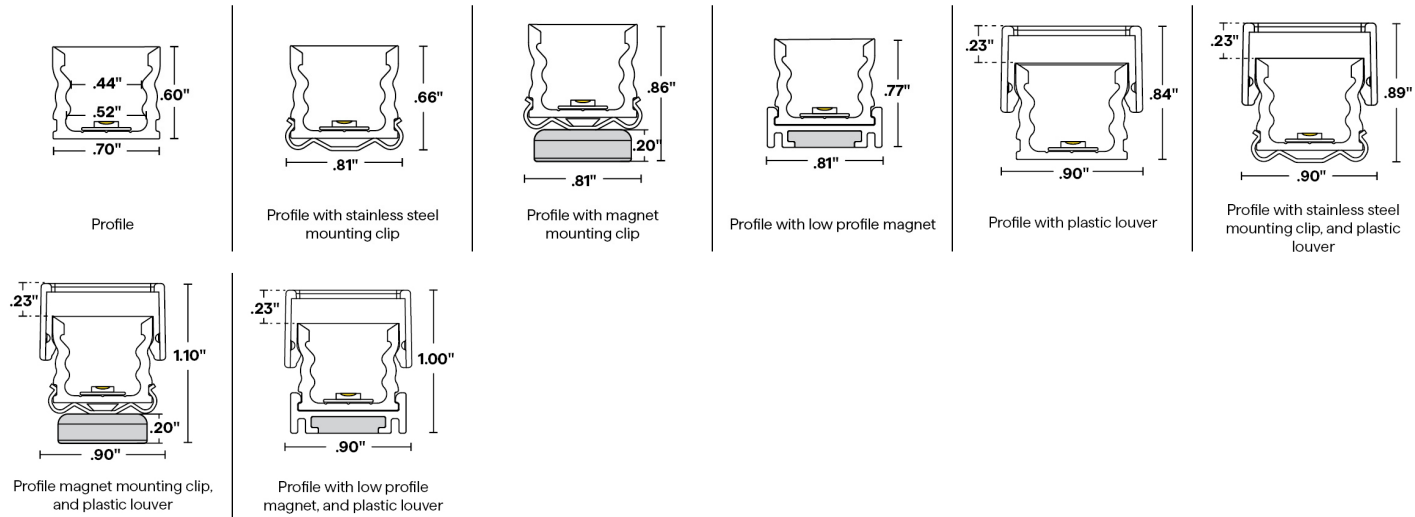
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5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | Florida Fish and Wildlife Conservation Commission (FWC) rated Strips: Red and Amber | IK10 rated

ESSENTIALS TORQ-ENCAPSULATED (03) STATIC COLOR
## 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

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 TQ3SC-5.0-**-ENC-STD

	Red		Green		Blue		Amber	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH
CL	56	633	302	517	78	466	51	597
TL	47	633	254	517	66	466	42	597

[Calculated L70 = 40000 hrs]
Tested with TQ3SC-5.0-**-ENC-WO

	Red		Green		Blue		Amber	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH
CL	60	633	327	517	85	466	55	597
TL	53	633	287	517	74	466	48	597

6 DIODE VISIBILITY

 ENC/CL - Clear encapsulation

 ENC/TL - Translucent encapsulation
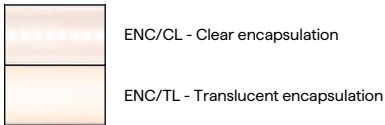
TEMPERATURE RATINGS

	5.0 W/FT	
	Min	Max
Ambient Operating Temp - Surface	-4°F	110°F

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

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

PASS THROUGH (Input/Output)

P1	P2	P3	P4
IN / OUT	IN / OUT	IN / OUT	IN / OUT
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
.15"
Bare Wire 24"
22 AWG

BRL
1.36"
.44"
1.62"
.66"
Barrel 6"- WET | 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
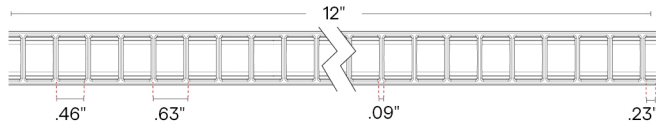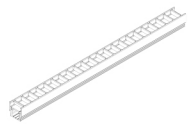
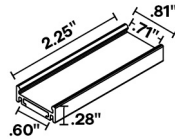| Lumen Multiplier	
WH	BK
0.70	0.49

---

12 WIRE COLOR
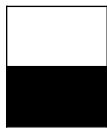
White

Black

---

14 MOUNTING

SST

1.25" .81" .20"
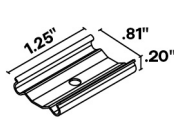
Stainless Steel Clip

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"
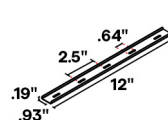
Magnet Mount Accessory for M4

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"
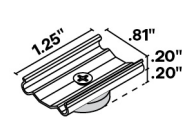
Magnet Clip

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
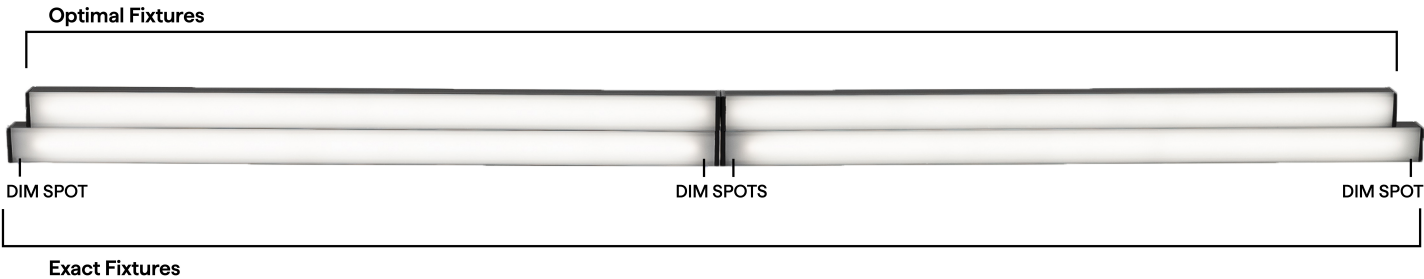
Exact Fixtures

SC 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"	10.41"		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
	SC	SC
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1	QOM-DC+CAP QOM-PH
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V
1%	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	SC	SC
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND iQ-ND-50-65
Phase	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH iQ-PH+QD1	Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
Lutron Athena	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN	
ECO System	QTM-eLED(E)	
DMX	QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES
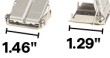
HINGE - HMB-M
1.41" .71"
Adjustable mounting bracket - Medium

HINGE - HMB-L
1.46" 1.29"
Adjustable mounting bracket - Large

HINGE - HMB-XL
4" 1.46"
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
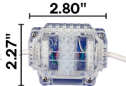
COMPATIBLE WIRING ACCESSORIES

Q-mini-J	Q-mini-J5	BARREL-EXT	BARREL FOUR-FER	CON120-EXT	CON FOUR-FER
2" 1.25"	2.80" 2.27"				
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	8ft barrel cable extender DRY ONLY	Splits lead from one to four LED Barrel connector fixtures, DRY/DMP	10ft Con cable extender DRY/DMP/WET	Splits lead from one to four LED Con connectors DRY/DMP/WET

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write
DMX addresses and
adjust voltage