ESSENTIALS TORQ-FLAT (01) SW-IA

24VDC Linear Fixtures - Surface & Recessed

white optics | cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | Declare. | Red List Approved

.44" / .52" / .70" / .60"

- Surface mount linear fixture
- Choose from diffused, polar, frosted, clear 60°, or clear 70° lens options for varying diode visibility and beam angles
- Offered with an optional mounting tray
- Features all wire feed options
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish
- Utilize DMX and SPI protocols to control nominal 1" segments of specifiable white LEDs

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS	7 EXTERNAL LOUVER	8 WIRE INPUT/OUTPUT	9 CONNECTOR / WIRE IN	10 CONNECTOR / WIRE OUT	11 WIRE COLOR	12 WIRE TYPE	13 MOUNTING	14 FINISH	15 LENGTH (IN)	16 EXACT/ OPTIMAL
TQ1IA	5.0		DRY												

Sample Part Number: **TQ1IA-5.0-30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 PRODUCT

TQ1IA

See following pages for compatible power supplies.

2 WATTS/FT

5.0 5.0W/ft

3 CCT

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

4 RATED

DRY IP20

5 EFFICIENCY

STD Standard
WO White Optics

WhiteOptics - Internal coating, greater lumen output

6 LENS

DF	Diffused
PR	Polar
FR	Frosted
CL/60	Clear 60°
CL/70	Clear 70°

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-WH	White Plastic
L1-BK	Black Plastic
N/A	No Louver

Louvers are shipped separately and require field assembly

8 WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed
S3	Single 3 (Input only) - Left Side Feed
S4	Single 4 (Input only) - Right Side Feed

For continuous mounting, consider bottom or side feed

P1	Pass Through 1 (Input/output) - End Feed
P2	Pass Through 2 (Input/output) - Bottom Feed
P3	Pass Through 3 (Input/output) - Left Side Feed
P4	Pass Through 4 (Input/output) - Right Side Feed

For continuous mounting, consider bottom or side feed

9 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.
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10 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)

11 WIRE COLOR

| WH | White |
| BK | Black |

12 WIRE TYPE

| CL2 | Class 2 |
| CL2P | Plenum Rated |

CL2P only available with bare wire leads (BW)

13 MOUNTING

SST	Stainless Steel
M4	Low Profile Magnet
MG	Magnet

14 FINISH

ST	Satin
BK	Black
BZ	Bronze
CU	Custom

15 LENGTH (IN)

Fixture length min 12", max 98.43" not including end caps. Consult factory for lengths under 12"

16 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.
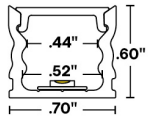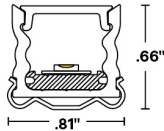See Exact/Optimal Fixture Length charts.

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24VDC Linear Fixtures - Surface & Recessed
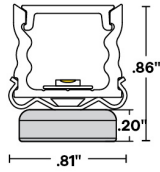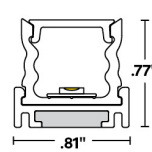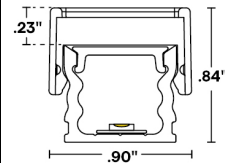
1 PRODUCT - DIMENSIONS

Profile

.44"
.52"
.60"
.70"

Profile with flat lens, stainless steel mounting clip, and mounting tray

.66"
.81"

Profile with flat lens and magnet mounting clip

.86"
.20"
.81"

Profile with flat lens and low profile magnet

.77"
.81"

Profile with plastic louver

.23"
.84"
.90"

6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.
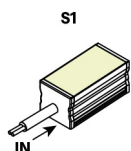
CL/60
60°
Clear 60˚
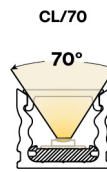
CL/70
70°
Clear 70˚

7 EXTERNAL LOUVER

PLASTIC

12"

.46"   .63"   .09"   .23"
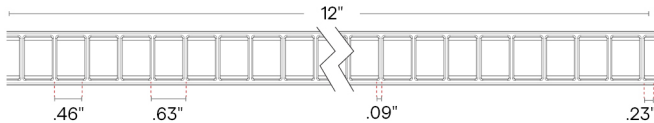
L1-XX
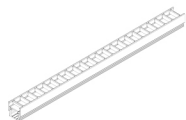
Lumen Multiplier

WH	BK
0.72	0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1
IN
End Feed

S2
IN
Bottom Feed

S3
IN
Side Feed - Left
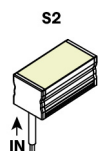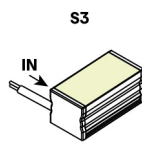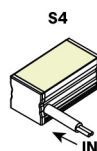
S4
IN
Side Feed - Right

PASS THROUGH (Input/Output)

P1
OUT
IN
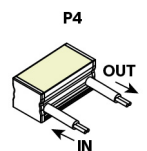End Feed

P2
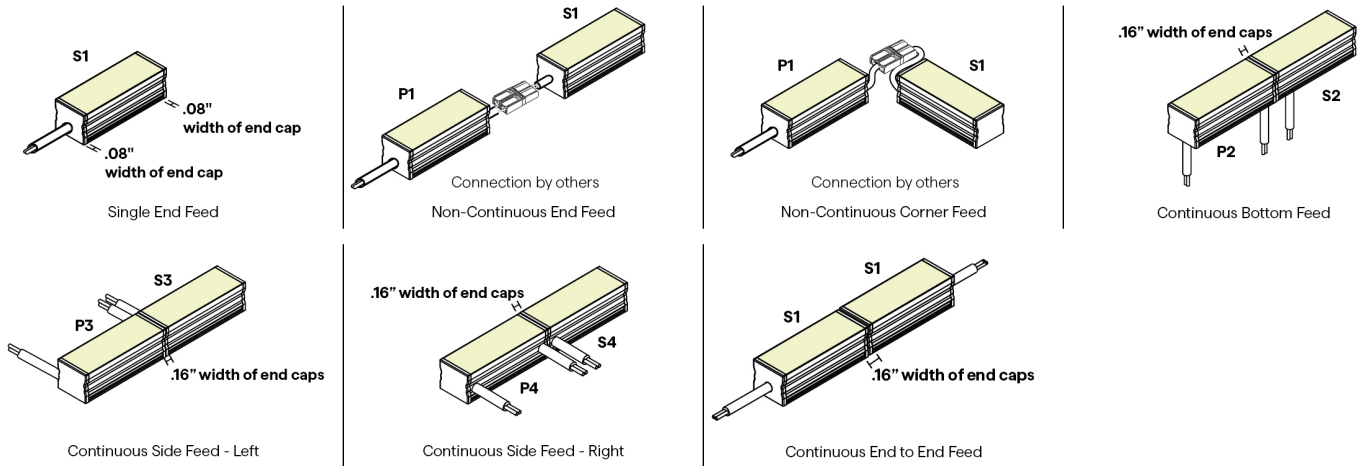OUT
IN
Bottom Feed

P3
OUT
IN
Side Feed - Left
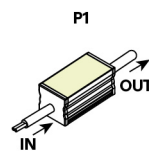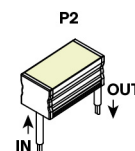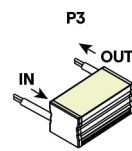
P4
OUT
IN
Side Feed - Right

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CONFIGURATION OPTIONS

S1
.08" width of end cap
.08" width of end cap

Single End Feed

S1
P1
Connection by others

Non-Continuous End Feed

P1   **S1**
Connection by others

Non-Continuous Corner Feed

.16" width of end caps
S2
P2

Continuous Bottom Feed

S3
P3
.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

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
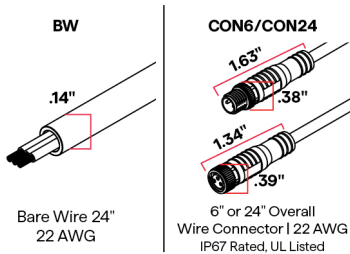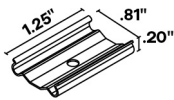
BW
.14"

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

11 WIRE COLOR

White

Black

13 MOUNTING

SST
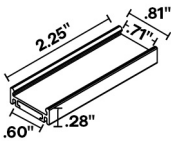
1.25" **.81"** **.20"**

Stainless Steel Clip

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

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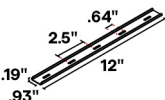
Each clip comes with a #4 x 5/8" Flat Head SS

M4

2.25" **.81"** **.71"** **.60"** **.28"**

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

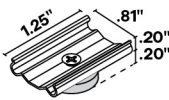### MMA-04

.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

14 FINISH

Satin

Black

Bronze

Custom color available

16 EXACT/OPTIMAL FIXTURE LENGTH

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
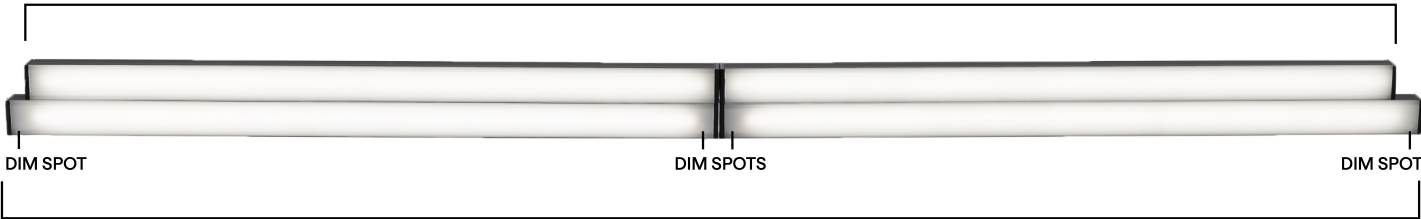
DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

SW-IA DRY 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"	.975"
13"	1.475"
14"	.3"-1.975"
15"	.8"
16"	1.3"
17"	1.8"
18"	.625"
19"	1.125"
20"	1.625"
21"	.45"
22"	.95"
23"	1.45"
24"	1.95"
36"	1.25"
48"	0.55"
60"	1.525"
72"	0.825"
84"	1.8"
96"	1.1"

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"	10.46"	10.71"	10.46"	10.56"
13"	10.46"	10.71"	10.46"	10.56"
14"	13.81"	10.71"	13.81"	13.91"
15"	13.81"	14.06"	13.81"	13.91"
16"	13.81"	14.06"	13.81"	13.91"
17"	13.81"	14.06"	13.81"	13.91"
18"	17.16"	17.41"	17.16"	17.26"
19"	17.16"	17.41"	17.16"	17.26"
20"	17.16"	17.41"	17.16"	17.26"
21"	20.51"	20.76"	20.51"	20.61"
22"	20.51"	20.76"	20.51"	20.61"
23"	20.51"	20.76"	20.51"	20.61"
24"	23.86"	20.76"	23.86"	23.96"
36"	33.91"	34.16"	33.91"	34.01"
48"	47.31"	47.56"	47.31"	47.41"
60"	57.36"	57.61"	57.36"	57.46"
72"	70.76"	71.01"	70.76"	70.86"
84"	80.81"	81.06"	80.81	80.91"
96"	94.21"	94.46"	94.21"	94.31"

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	SW-IA
1%	QT-CAB-eLED+IA QTM-eLED+IA

DIMMING PROTOCOL	INDOOR
	SW-IA
DMX	QT-CAB-eLED+IA QTM-eLED+IA

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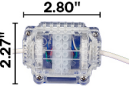
HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	VHB	NJ-MEDIUM	NJ-LARGE	NU-LARGE	SD-J-LARGE
1.41" .71" Adjustable mounting bracket - Medium	1.46" 1.29" Adjustable mounting bracket - Large	4" 1.46" Adjustable mounting bracket - XLarge	.75" 1.03" Small mounting accessory	2.23" 1.38" Adjustable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

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24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE WIRING ACCESSORIES

Q-mini-J	Q-mini-J5	BARREL-EXT	BARREL FOUR-FER	CON120-EXT	CON FOUR-FER	CON M - BARREL F
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	Male con to barrel cable adaptor DRY/DMP

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"

2.58"

Wi-Fi or Bluetooth Connectivity