



# ESSENTIALS TORQ- ENCAPSULATED (03) RGB

24VDC Linear Fixtures - Surface & Recessed

white  
optics

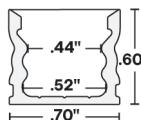
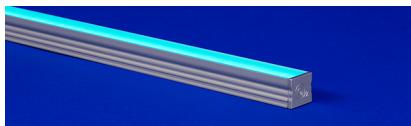


RoHS  
COMPLIANT

5 YEAR  
WARRANTY

Declare

Red List  
Approved



- 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, and Blue LED allows for color changing applications
- Features 7 diodes per 2' cut point

| 1<br>PRODUCT | 2<br>WATTS/FT | 3<br>CCT | 4<br>RATED | 5<br>EFFICIENCY | 6<br>LENS | 7<br>WIRE INPUT/OUTPUT | 8<br>CONNECTOR/WIRE IN | 9<br>CONNECTOR/WIRE OUT | 10<br>INPUT END CAP | 11<br>OUTPUT END CAP | 12<br>WIRE COLOR | 13<br>WIRE TYPE | 14<br>MOUNTING | 15<br>FINISH | 16<br>LENGTH (IN) | 17<br>EXACT/<br>OPTIMAL |
|--------------|---------------|----------|------------|-----------------|-----------|------------------------|------------------------|-------------------------|---------------------|----------------------|------------------|-----------------|----------------|--------------|-------------------|-------------------------|
| TQ3RGB       | 6.0           | RGB      | ENC        |                 |           |                        |                        |                         |                     |                      |                  |                 |                |              |                   |                         |

Sample Part Number: TQ3RGB-6.0-RGB-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-BK-48"-E

|   |   |  |   |  |  |
|---|---|--|---|--|--|
| <b>1</b><br><b>PRODUCT</b><br>TQ3RGB<br><br>See following pages for compatible power supplies.  | <b>2</b><br><b>WATTS/FT</b><br>6.0 6.0W/ft  | <b>3</b><br><b>CCT</b><br>RGB  | <b>4</b><br><b>RATED</b><br>ENC IP67  | <b>5</b><br><b>EFFICIENCY</b><br>STD Standard White Optics<br><br>WhiteOptics - Internal coating, greater lumen output | <b>6</b><br><b>LENS</b><br>CL Clear<br>TL Translucent<br><br>For representation of LED visibility, see Diode Visibility section on following pages.<br>For beam angles, see Photometric Performance section on following pages |
| <b>7</b><br><b>WIRE INPUT/OUTPUT</b><br><br>S1 Single 1 (Input only) - End Feed<br>S2 Single 2 (Input only) - Bottom Feed<br>S3 Single 3 (Input only) - Left Side Feed<br>S4 Single 4 (Input only) - Right Side Feed<br><br>For continuous mounting, consider bottom or side feed                 | <b>8</b><br><b>CONNECTOR/WIRE IN</b><br><br>BW Bare Wire (Standard 24")<br>CON6 Connector 6"<br>CON24 Connector 24"<br><br>BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)   | <b>9</b><br><b>CONNECTOR/WIRE OUT</b><br><br>CLS Closed End (No feed)  |   |  |  |
| <b>P1</b> Pass Through 1 (Input/output) - End Feed<br><b>P2</b> Pass Through 2 (Input/output) - Bottom Feed<br><b>P3</b> Pass Through 3 (Input/output) - Left Side Feed<br><b>P4</b> Pass Through 4 (Input/output) - Right Side Feed<br><br>For continuous mounting, consider bottom or side feed | <b>P1</b> Pass Through 1 (Input/output) - End Feed<br><b>P2</b> Pass Through 2 (Input/output) - Bottom Feed<br><b>P3</b> Pass Through 3 (Input/output) - Left Side Feed<br><b>P4</b> Pass Through 4 (Input/output) - Right Side Feed<br><br>For continuous mounting, consider bottom or side feed | <b>BW</b> Bare Wire (Standard 24")<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | <b>BW</b> Bare Wire (Standard 24")<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)  | <b>CLS</b> Closed End (No feed)  | <b>BW</b> Bare Wire (Standard 24")<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48) |
| <b>10</b><br><b>INPUT END CAP</b><br><br>STD Standard<br>CL Clear<br><br>STD - End cap matches fixture finish chosen<br><br>Select CL for continuous runs   | <b>11</b><br><b>OUTPUT END CAP</b><br><br>STD Standard<br>CL Clear<br><br>STD - End cap matches fixture finish chosen<br><br>Select CL for continuous runs  | <b>12</b><br><b>WIRE COLOR</b><br><br>WH White<br>BK Black   | <b>13</b><br><b>WIRE TYPE</b><br><br>CL2 Class 2<br>CL2P Plenum Rated<br><br>CL2P only available with bare wire leads (BW)  |  |  |
| <b>14</b><br><b>MOUNTING</b><br><br>SST Stainless Steel<br>M4 Low Profile Magnet<br>MG Magnet   | <b>15</b><br><b>FINISH</b><br><br>ST Satin<br>BK Black<br>BZ Bronze<br>CU Custom  | <b>16</b><br><b>LENGTH (IN)</b><br><br>Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".  | <b>17</b><br><b>EXACT/OPTIMAL</b><br><br>O Optimal Illumination<br>E Exact Specified Length<br><br>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. |  |  |

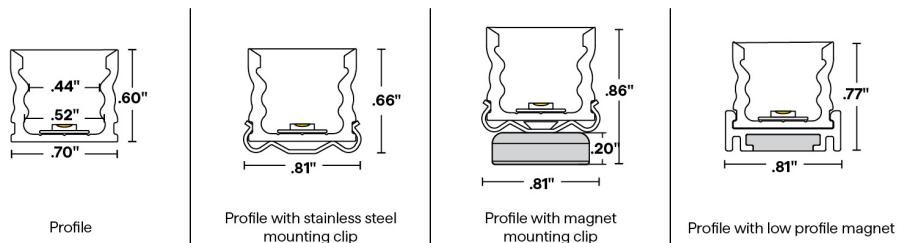
5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | IK10 rated



# ESSENTIALS TORQ-ENCAPSULATED (03) RGB

24VDC Linear Fixtures - Surface & Recessed

## 1 PRODUCT - DIMENSIONS



## 2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]  
Tested with TQ3RGB-6.0-RGB-ENC-STD

|    | Red   |            | Green |            | Blue  |            | All |
|----|-------|------------|-------|------------|-------|------------|-----|
|    | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH |     |
| CL | 54    | 633        | 109   | 523        | 31    | 469        | 174 |
| TL | 45    | 633        | 91    | 523        | 26    | 469        | 147 |

[Calculated L70 = 40000 hrs]  
Tested with TQ3RGB-6.0-RGB-ENC-WO

|    | Red   |            | Green |            | Blue  |            | All |
|----|-------|------------|-------|------------|-------|------------|-----|
|    | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH |     |
| CL | 58    | 633        | 117   | 523        | 33    | 469        | 188 |
| TL | 51    | 633        | 103   | 523        | 29    | 469        | 165 |

## 6 DIODE VISIBILITY

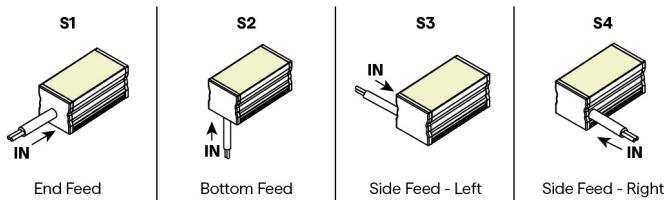


## TEMPERATURE RATINGS

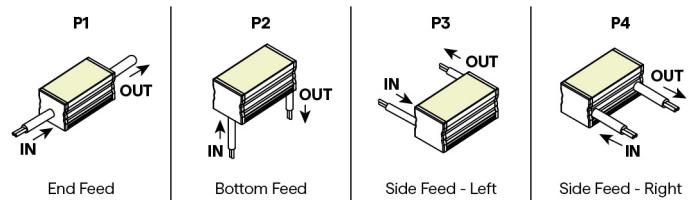
|                                  | 6.0 W/FT |      |
|----------------------------------|----------|------|
|                                  | Min      | Max  |
| Ambient Operating Temp - Surface | -13°F    | 95°F |

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)



PASS THROUGH (Input/Output)

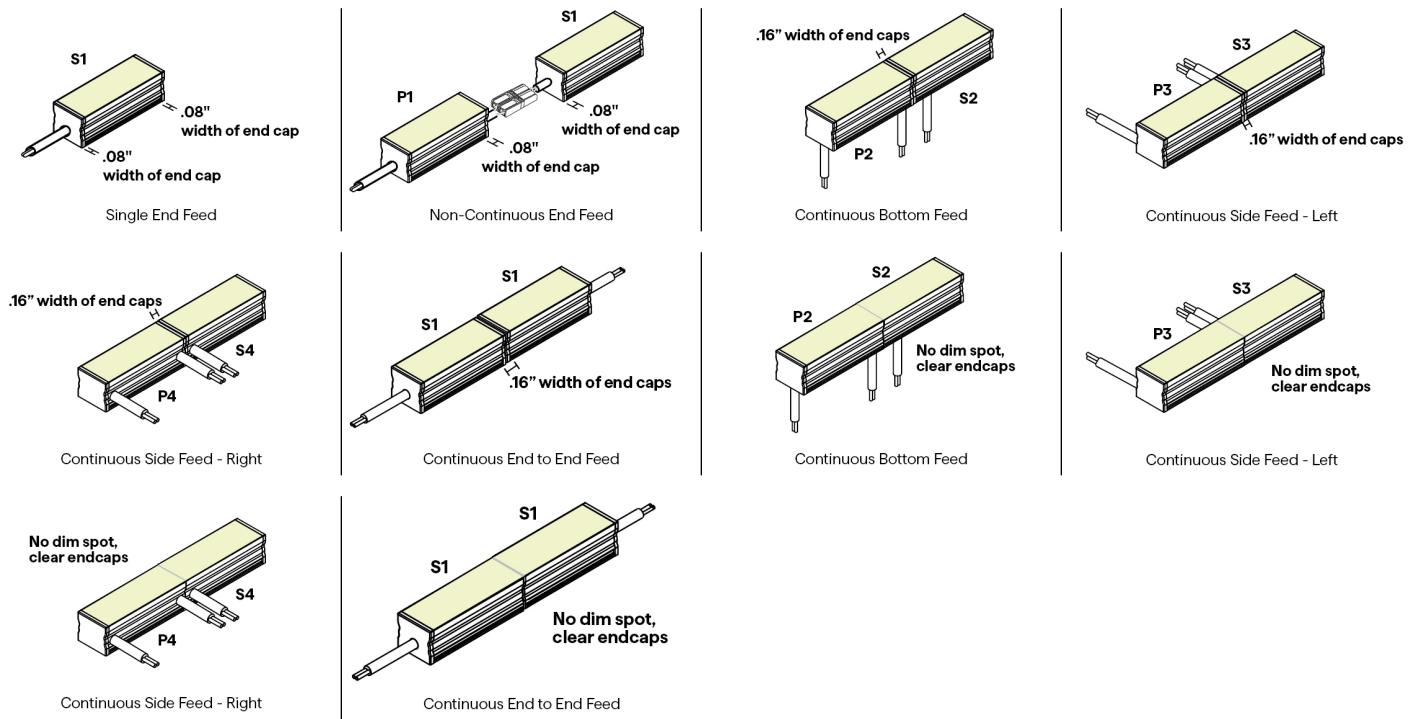




## ESSENTIALS TORQ-ENCAPSULATED (03) RGB

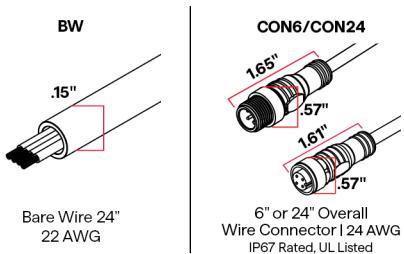
24VDC Linear Fixtures - Surface & Recessed

### CONFIGURATION OPTIONS

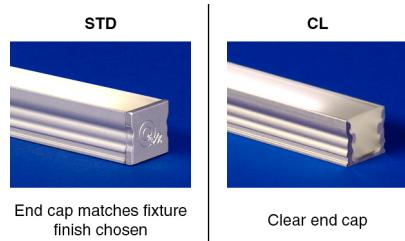


### 8 / 9 CONNECTOR/WIRE – IN/OUT

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



### 10 / 11 END CAP – IN/OUT





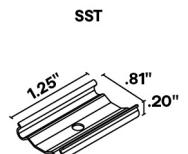
# ESSENTIALS TORQ-ENCAPSULATED (03) RGB

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## 12 WIRE COLOR



White  
Black

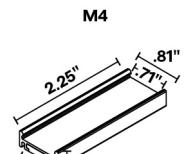


Stainless Steel Clip

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

To order separately use SST-01

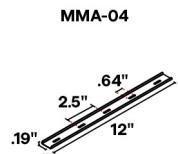
Each clip comes with a #4 x  
5/8" Flat Head screw



Low Profile Magnet

One M4 provided per foot.

To order separately use  
MG-04

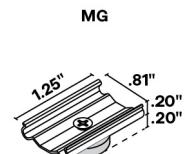


Magnet Mount  
Accessory for M4

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



Magnet Clip

One MG provided per foot

To order separately use MG-01

## 15 FINISH



Satin  
Black  
Bronze

### 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

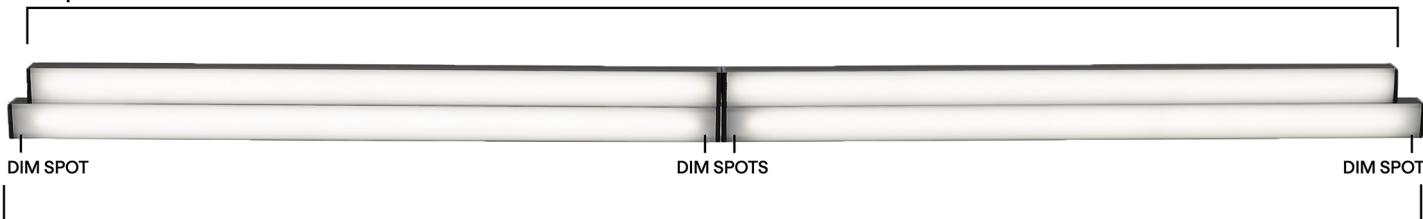
## 17 EXACT/OPTIMAL FIXTURE LENGTH

[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



### Exact Fixtures



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## RGB 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  $\pm 0 - 1/8"$ . 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                  |        |
|--------------------------|----------------------|-------------------------|-----------------------|--------------------------|--------|
| 12"                      | S1<br>IN<br>End Feed | S2<br>IN<br>Bottom Feed | P1<br>OUT<br>End Feed | P2<br>OUT<br>Bottom Feed |        |
| 13"                      |                      |                         |                       |                          | 10.41" |
| 14"                      |                      |                         |                       |                          | 12.41" |
| 15"                      |                      |                         |                       |                          | 14.41" |
| 16"                      |                      |                         |                       |                          | 16.41" |
| 17"                      |                      |                         |                       |                          | 18.41" |
| 18"                      |                      |                         |                       |                          | 20.41" |
| 19"                      |                      |                         |                       |                          | 22.41" |
| 20"                      |                      |                         |                       |                          | 24.41" |
| 21"                      |                      |                         |                       |                          | 26.41" |
| 22"                      |                      |                         |                       |                          | 28.41" |
| 23"                      |                      |                         |                       |                          | 30.41" |
| 24"                      |                      |                         |                       |                          | 32.41" |
| 36"                      |                      |                         |                       |                          | 34.41" |
| 48"                      |                      |                         |                       |                          | 46.41" |
| 60"                      |                      |                         |                       |                          | 58.41" |
| 72"                      |                      |                         |                       |                          | 70.41" |
| 84"                      |                      |                         |                       |                          | 82.41" |
| 96"                      |                      |                         |                       |                          | 94.41" |
|                          |                      |                         |                       |                          | 94.51" |

## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has  $\pm 5\%$  tolerance.

| DIM TO LEVEL | INDOOR   | OUTDOOR   |
|--------------|--|---|
|              | RGB  | RGB   |
| 0.1%         | QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DMX<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DMX<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DALI-DT8<br>QOM-eLED+DMX<br>QOM-eLED+PS-DALI-DT8<br>QZ-DMX |
| 1%           | QZ-DALI-DT8  | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8  |
| 10%          | Non-Dim Power Supply with RGB App Dongle   |   |

| DIMMING PROTOCOL | INDOOR   | OUTDOOR   |
|------------------|--|---|
|                  | RGB  | RGB   |
| DMX              | QTM-eLED+DMX<br>QZ-DMX                                   | Q-SET-QZ-DMX<br>QOM-eLED+DMX<br>QZ-DMX                |
| DALI-2: DT8      | QT-CAB-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8<br>QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed | Non-Dim Power Supply with RGB App Dongle                 |   |



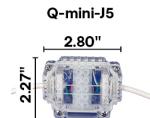
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## COMPATIBLE MOUNTING ACCESSORIES

|   |   |  |                                       |   |                      |                     |                       |                     |                              |
|---|---|--|---------------------------------------|---|----------------------|---------------------|-----------------------|---------------------|------------------------------|
| <b>HINGE - HMB-M</b><br>1.41" 1.41" .71" .71" | <b>HINGE - HMB-L</b><br>1.46" 1.46" 1.29" 1.29" | <b>HINGE - HMB-XL</b><br>1.46" 1.46" 4" 4" | <b>Q-PIVOT</b><br>75" 75" 1.03" 1.03" | <b>Q-ANGLE</b><br>1.38" 1.38" 2.23" 2.23" | <b>NJ-MEDIUM</b><br> | <b>NJ-LARGE</b><br> | <b>SD-J-LARGE</b><br> | <b>NU-LARGE</b><br> | <b>BL-LARGE</b><br>          |
| 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 |
| <b>MMA-01</b><br>.23" .23" .75" .75"          | <b>MMA-04</b><br>.19" .19" .93" .93"            | Magnet Mount Accessory of MG-01            | Magnet Mount Accessory of MG-04       |   |                      |                     |                       |                     |                              |

## COMPATIBLE WIRING ACCESSORIES



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

## COMPATIBLE CONTROL ACCESSORIES

|  |   |
|--|---|
| <b>SCENE APP DONGLE</b><br>1.36" 1.36" 2.58" 2.58" | <b>IQ-DMX-STICK-GA2</b><br>                 |
| Wi-Fi or Bluetooth Connectivity                    | DMX controller for changing color & dimming |

## COMPATIBLE APPS



Read and write DMX addresses and adjust voltage