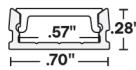




# ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed



- Thin, low-profile surface mount linear fixture
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- 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
- Can be suitable for exterior use when specified as wet, contact factory for more information

## INFORMATION REQUIRED FOR LIGHTING SCHEDULE

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

## ADDITIONAL INFORMATION REQUIRED TO ORDER

7 WIRE INPUT/OUTPUT	8 CONNECTOR/WIRE IN	9 CONNECTOR/WIRE OUT	10 WIRE COLOR	11 WIRE TYPE	12 MOUNTING	13 FINISH	14 LENGTH (IN)	15 EXACT/OPTIMAL

Sample Part Number: TH1SW-1.5HE-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E

<b>1</b> PRODUCT  <b>TH1SW</b> <b>TH1SW-USA</b>  Select USA option for BAA and BABA projects. SW-HE only. Only DRY ratings apply.  See following pages for compatible power supplies.	<b>2</b> WATTS/FT  <b>1.5HE</b> 1.5W/ft HE <b>3.0HE</b> 3.0W/ft HE <b>6.0HE</b> 6.0W/ft HE  <b>3.0HE+</b> 3.0W/ft HE+ <b>6.0HE+</b> 6.0W/ft HE+  <b>1.5HE</b> 1.5W/ft HE <b>3.0HE</b> 3.0W/ft HE <b>6.0HE</b> 6.0W/ft HE  <b>3.0HE+</b> 3.0W/ft HE+ <b>6.0HE+</b> 6.0W/ft HE+	<b>3</b> CCT  <b>20</b> 2000K <b>22</b> 2200K <b>24</b> 2400K <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K  <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K  <b>24</b> 2400K <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K  <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>4</b> RATED  <b>DRY</b> IP20  <b>DMP</b> IP54  <b>WET</b> IP67  Can be suitable for exterior use, contact factory for more information. WET rated strips are only compatible without a lens	<b>5</b> EFFICIENCY  <b>STD</b> Standard	<b>6</b> LENS  <b>DF</b> Diffused <b>PR</b> Polar <b>FR</b> Frosted <b>CL</b> Clear <b>N/A</b> For wet rated LED Strips  For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages. WET rated strips are only compatible without a lens.
<b>7</b> WIRE INPUT/OUTPUT  <b>SINGLE (Input only)</b> <b>S1</b> End Feed <b>S2</b> Bottom Feed  For continuous mounting, consider bottom feed.	<b>8</b> CONNECTOR/WIRE IN  <b>BW</b> Bare Wire (Standard 24") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  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> CONNECTOR/WIRE OUT  <b>CLS</b> Closed End (No feed)	<b>10</b> WIRE COLOR  <b>WH</b> White <b>BK</b> Black <b>N/A</b> For Barrel  wet barrel only available in black		
<b>PASS THROUGH (Input/output)</b> <b>P1</b> End Feed <b>P2</b> Bottom Feed  For continuous mounting, consider bottom feed.	<b>BW</b> Bare Wire (Standard 24") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  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") <b>BRL</b> Barrel <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)			
<b>11</b> WIRE TYPE  <b>CL2</b> Class 2 <b>N/A</b> For Barrel	<b>12</b> MOUNTING  <b>SST</b> Stainless Steel <b>M4</b> Low Profile Magnet <b>MG</b> Magnet	<b>13</b> FINISH  <b>ST</b> Satin <b>BK</b> Black <b>CU</b> Custom  Custom finishes require a longer lead time, consult factory	<b>14</b> LENGTH (IN)  Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>15</b> EXACT/OPTIMAL  <b>O</b> Optimal Illumination <b>E</b> 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.	

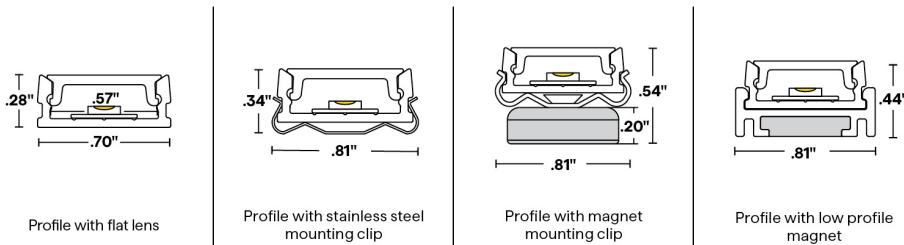
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



# ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed

## 1 PRODUCT - DIMENSIONS



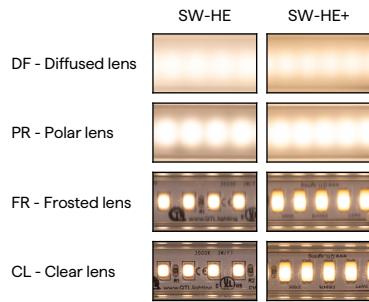
## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]

Tested with TH1SW-\*\*-30-DRY-STD

	1.5HE W/FT	3.0HE W/FT	3.0HE+ W/FT	6.0HE W/FT	6.0HE+ W/FT					
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
CL	190	98	350	98	493	92	696	98	753	92
FR	185	98	340	98	489	92	692	98	741	92
PR	173	98	316	98	458	92	653	98	714	92
DF	158	98	288	98	418	92	599	98	650	92

## 6 DIODE VISIBILITY



## TEMPERATURE RATINGS

		1.5 HE W/FT		3.0 HE W/FT		3.0 HE+		6.0 HE W/FT		6.0 HE+ W/FT	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	145°F	-4°F	130°F	-13°F	130°F	-4°F	115°F	-13°F	115°F
DMP	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	125°F	-4°F	110°F	-4°F	110°F	**	**
WET	Ambient Operating Temp - Surface	**	**	**	**	-13°F	125°F	**	**	-13°F	110°F

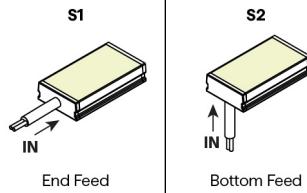


# ESSENTIALS THIN-FLAT (01) SW-HE

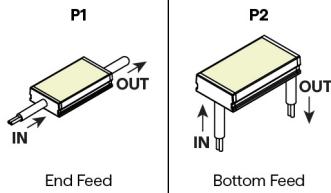
24VDC Linear Fixtures - Surface & Recessed

## 7 WIRE INPUT/OUTPUT

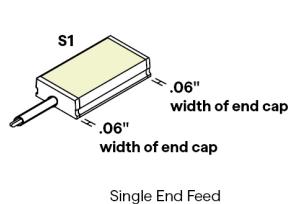
SINGLE (Input only)



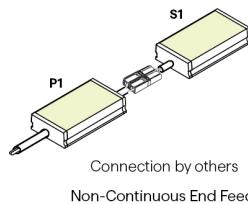
PASS THROUGH (Input/Output)



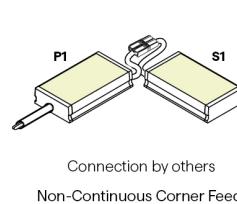
## CONFIGURATION OPTIONS



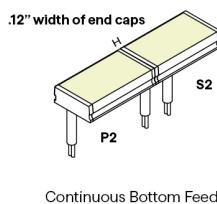
Single End Feed



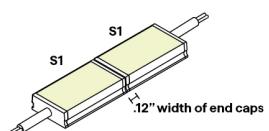
Connection by others  
Non-Continuous End Feed



Connection by others  
Non-Continuous Corner Feed



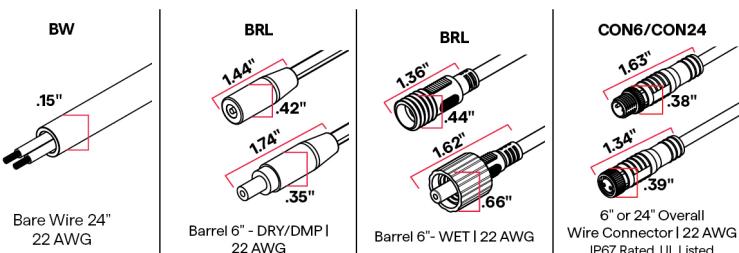
Continuous Bottom Feed



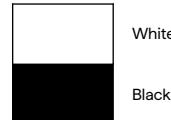
Continuous End to End Feed

## 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



## 10 WIRE COLOR



White

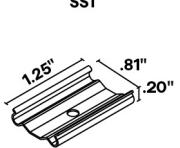
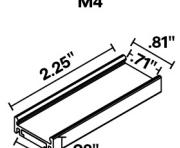
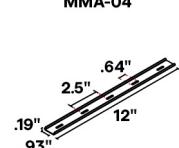
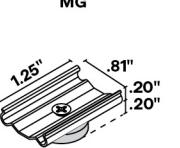
Black



## ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed

### 12 MOUNTING

SST	M4	MMA-04	MG
 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	 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

### 13 FINISH



Satin

Black

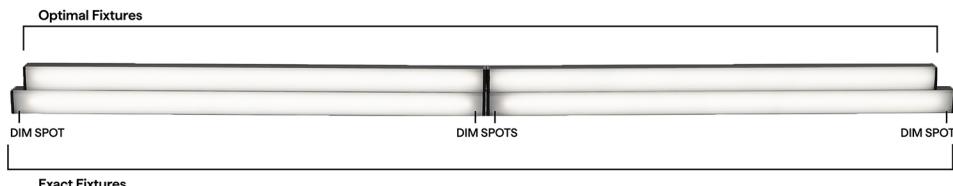
Custom finishes require a longer lead time, consult factory

#### 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
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 15 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.





# ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed

## SW-HE, SW-HE+ DRY, DMP 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	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"	10.41"		10.66"	
13"	12.41"		12.66"	
14"	12.41"		12.66"	
15"	14.41"		14.66"	
16"	14.41"		14.66"	
17"	16.41"		16.66"	
18"	16.41"		16.66"	
19"	18.41"		18.66"	
20"	18.41"		18.66"	
21"	20.41"		20.66"	
22"	20.41"		20.66"	
23"	22.41"		22.66"	
24"	22.41"		22.66"	
36"	34.41"		34.66"	
48"	46.41"		46.66"	
60"	58.41"		58.66"	
72"	70.41"		70.66"	
84"	82.41"		82.66"	
96"	94.41"		94.66"	

## SW-HE+ WET 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	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"	10.61"		10.76"	
13"	12.61"		12.76"	
14"	12.61"		12.76"	
15"	14.61"		14.76"	
16"	14.61"		14.76"	
17"	16.61"		16.76"	
18"	16.61"		16.76"	
19"	18.61"		18.76"	
20"	18.61"		18.76"	
21"	20.61"		20.76"	
22"	20.61"		20.76"	
23"	22.61"		22.76"	
24"	22.61"		22.76"	
36"	34.61"		34.76"	
48"	46.61		46.76"	
60"	58.61"		58.76"	
72"	70.61"		70.76"	
84"	82.61"		82.76"	
96"	94.61"		94.76"	



# ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed

## 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
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
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-AVN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AVN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN Q2-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 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	



# ESSENTIALS THIN-FLAT (01) SW-HE

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
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 QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	

## COMPATIBLE MOUNTING ACCESSORIES

<b>HINGE - HMB-S</b>  1.41" .51"	<b>HINGE - HMB-M</b>  1.41" .71"	<b>HINGE - HMB-L</b>  1.46" 1.29"	<b>HINGE - HMB-XL</b>  1.46" 4"	<b>Q-PIVOT</b>  Small mounting accessory .75" 1.03"	<b>Q-ANGLE</b>  Adjustable mounting accessory 2.23" 1.38"	<b>QUOVA-STANDARD</b>  QUOVA Knife Edge	<b>NJ-MEDIUM</b>  J Mounting Bracket	<b>SD-L-MEDIUM</b>  L Mounting Bracket	<b>MMA-01</b>  Magnet Mount Accessory of MG-01 .23" .75"
Adjustable mounting bracket - Small	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge						

**MMA-04**



Magnet Mount Accessory of MG-04  
.19" .93"