



TRAXON Plus⁺

Linear Plus HO RGBW Quad



Project: _____

Type: _____



IP66



COAST



DMX/RDM



ANSI 3G



IK08

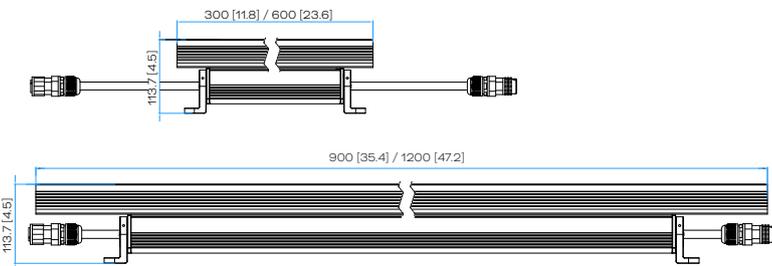
The Traxon Linear Plus is an AC powered, high-brightness outdoor luminaire that seamlessly integrates into any architectural, residential, or commercial setting. Featuring a choice of DMX/RDM and 0-10V control, RGBW (Quad and Discrete), DW and White color options and intelligent control personalities, allowing seamless Linear grazing and washing effects. The new addition of the High Power models create unmatched intensity. This product is intended for use in high-quality colored light applications.

Features

- DMX / RDM control
- Easy installation and maintenance
- Dynamic Boost
- Assortment of optical and installation accessories

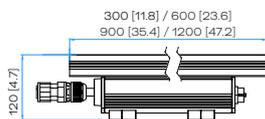
Dimensions

Unit: mm [inches]



Panel Mount Output Version

Unit: mm [inches]



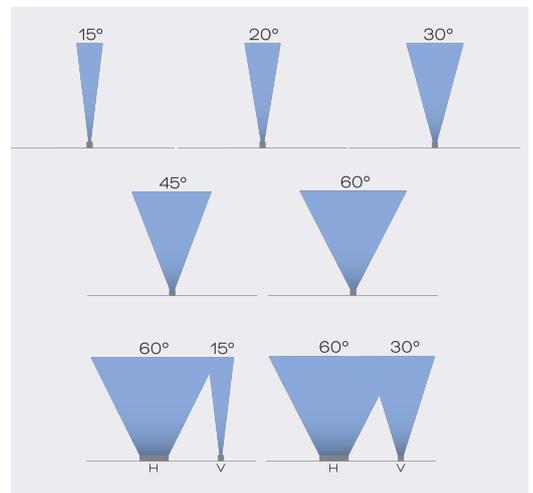
Technologies

- Auto-Addressing / Manual Addressing
- Dynamic Boost

Color Options



Beam Angles



Finish



Product Specifications

	RGBW Quad (Q) LED			
Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Pixels	1	2 (1 pixel is on demand)	3 (1 pixel is on demand)	4 (1/2 pixel is on demand)
Color Range	RGBW (W=4000K); RGBW (W=3000K) is on demand Dominant wavelength: Red: 625nm / Green: 525nm / Blue: 460nm			
Color Resolution	16-Bit Grayscale, Gamma 2.2			
Refresh Rate	12kHz			
LED Quantity	RGBW Quad (Q) LED 5pcs	RGBW Quad (Q) LED 10pcs	RGBW Quad (Q) LED 15pcs	RGBW Quad (Q) LED 20pcs
Beam Angle	15°, 20°, 30°, 45°, 60°, 60° x 15°, 60° x 30°			
Luminous Flux (Full On White Balance Mode)	30W: 1578lm (15°)	60W: 3156lm (15°)	90W: 5040lm (15°)	120W: 6720lm (15°)
Efficacy (Full On White Balance Mode)	30W: 53lm/W (15°)	60W: 53lm/W (15°)	90W: 56lm/W (15°)	120W: 56lm/W (15°)
CRI	90 CRI by request: 2700K-4000K (CRI90)			
Housing	Powder Coated Extruded Aluminum			
Housing Finish	Standard color: Traxon Signature Gray (RAL7005) Optional color: Gray (RAL7015), Black (RAL9005), White (RAL9003), Custom			
Cover Lens	Tempered glass			
Mounting	Surface Mount Optional mounting accessories are available			
Adjustment Options	-90° to +90° -90° (Panel Mount)			
Dimensions (L x W x H)	300mm x 70mm x 114mm 11.8" x 2.8" x 4.5"	600mm x 70mm x 114mm 23.6" x 2.8" x 4.5"	900mm x 70mm x 114mm 35.4" x 2.8" x 4.5"	1200mm x 70mm x 114mm 47.2" x 2" x 4.5".8
Dimensions (Panel Mount) (L x W x H)	300mm x 70mm x 110mm 11.8" x 2.8" x 4.3"	600mm x 70mm x 110mm 23.6" x 2.8" x 4.3"	900mm x 70mm x 110mm 35.4" x 2.8" x 4.3"	1200mm x 70mm x 110mm 47.2" x 2.8" x 4.3"
Weight	2.2kg / 5.5lbs	4kg / 8.7lbs	5.7kg / 12.6lbs	7.5kg / 16.5lbs
Weight (Panel Mount)	2.2kg / 5.5lbs	4kg / 8.7lbs	5.7kg / 12.6lbs	7.5kg / 16.5lbs
EPA	Front: 0.1 sq.ft Side: 0.49 sq.ft	Front: 0.1 sq.ft Side: 0.87 sq.ft	Front: 0.1 sq.ft Side: 1.04 sq.ft	Front: 0.1 sq.ft Side: 1.42 sq.ft
EPA (Panel Mount)	Front: 0.09 sq.ft Side: 0.36 sq.ft	Front: 0.09 sq.ft Side: 0.74 sq.ft	Front: 0.09 sq.ft Side: 1.13 sq.ft	Front: 0.09 sq.ft Side: 1.51 sq.ft
Regulatory Listing & Safety Approval	Electrical Protection Class I, cETLus, FCC, IK08			
Operating Temperature	-40°C* to +50°C / -40°F* to +122°F			
Min. Starting Temperature	-20°C (-4°F)			
Storage Temperature	-40°C to +80°C (-40°F to +176°F)			
Environment	Outdoor (IP66), suitable for coastal environments UL1598A Marine Certified			
Humidity	10-90%, non-condensing			

Electrical Specifications

Operating Voltage	120-277V AC 50 / 60Hz			
Power Consumption (W)	20 / 30	40 / 60	60 / 90	80 / 120
Lumen Maintenance	L70 @ 25°C - 100,000 hours			

System Specifications

Power Supply	AC line			
Control	DMX/RDM RDM Personalities ¹ ; RGBW equal current mode, RGBW White balance mode (Default, RGBW40 full on to 6500K), Dynamic boost mode, 16-Bit			
Addressing Options	Auto-addressing ON or Auto-addressing OFF			

*: Rated operating temperatures are the absolute min/max temperatures meant to be for short periods of time. Not sustained temperatures for extended periods

¹: RDM Personalities

- RGBW Equal Current mode: Each R, G, B, W channel is driven by the same driving current

- RGBW White Balance mode: Each R, G, B, W channel is driven by a modified driving current so that when RGBW is all on, the resulted white is balanced to a defined CCT. In the case of Linear Plus standard RGBW30, when 4 channels are turned on with the same DMX value, the resulted white color is balanced to an approximate 4000K CCT.

- Dynamic Boost mode: In applications where not all channels of a fixture are used, a portion of the unused channels' power would be redirected to the channel(s) that is(are) in used to boost the light output. For a RGBW fixture, depending on whether 1, 2 or 3 channels are in used, the redirected power would vary, and in the case that all 4 channels are used, there will be no boost and act like in the Equal Current mode!

LED CHARACTERISTICS: Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

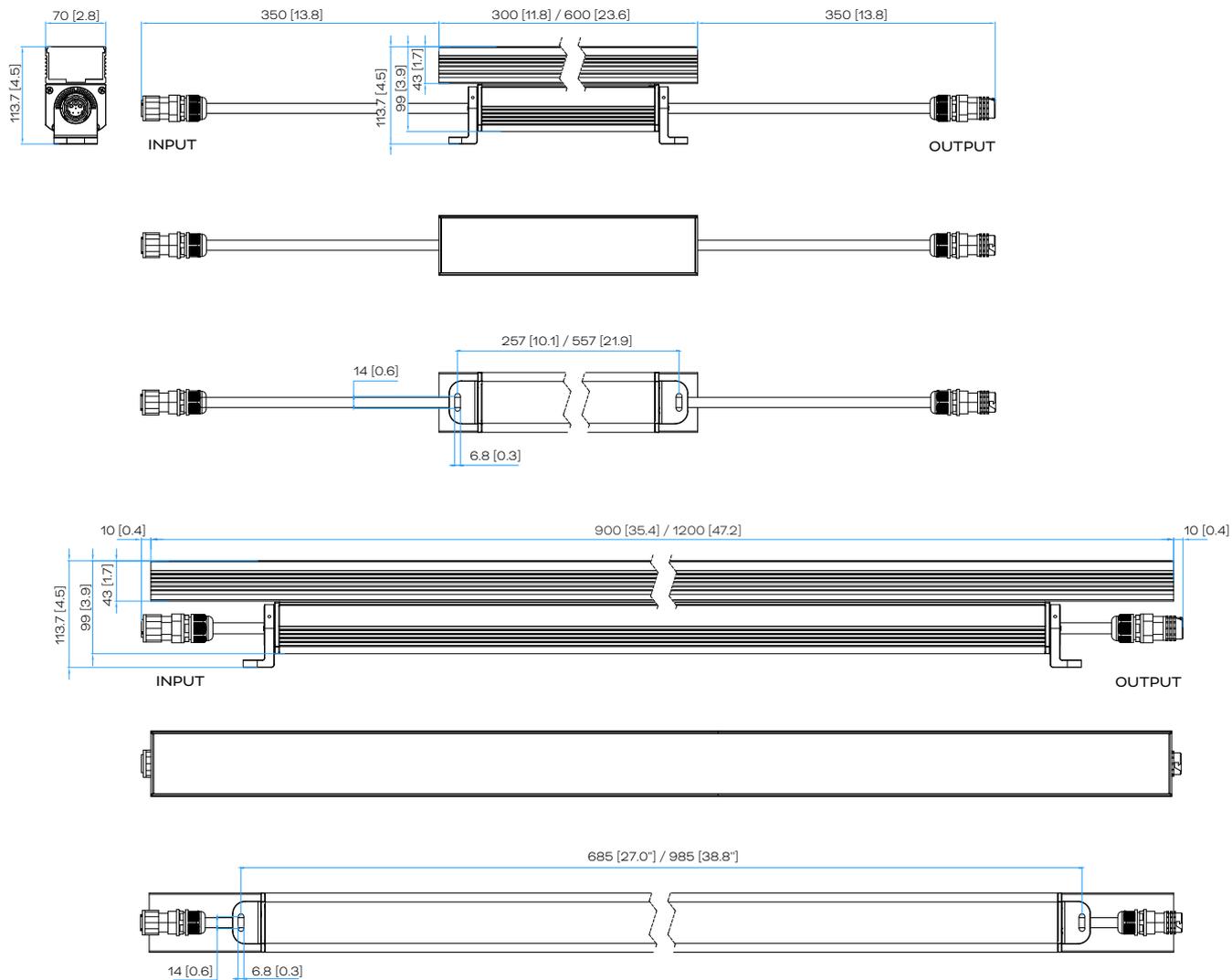
This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.

Lumen measurement complies with LM-79-08 standard.

Lumen maintenance is calculated based on LM-80 compliant measurement.

Fixture

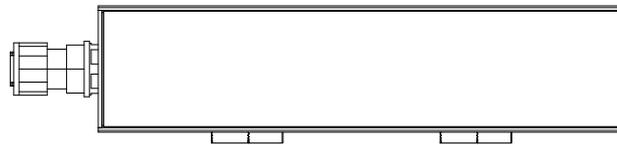
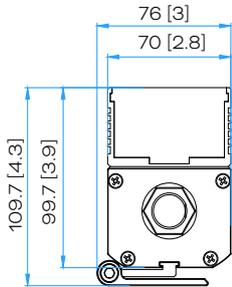
Unit: mm [inches]



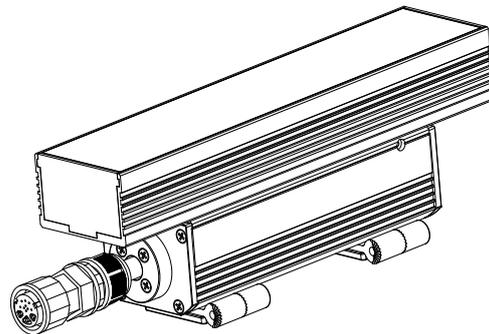
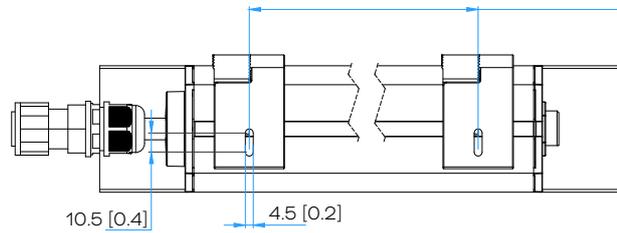
NOTE: Please see CAD files for additional dimensional data.

Panel Mount Option

Unit: mm [inches]



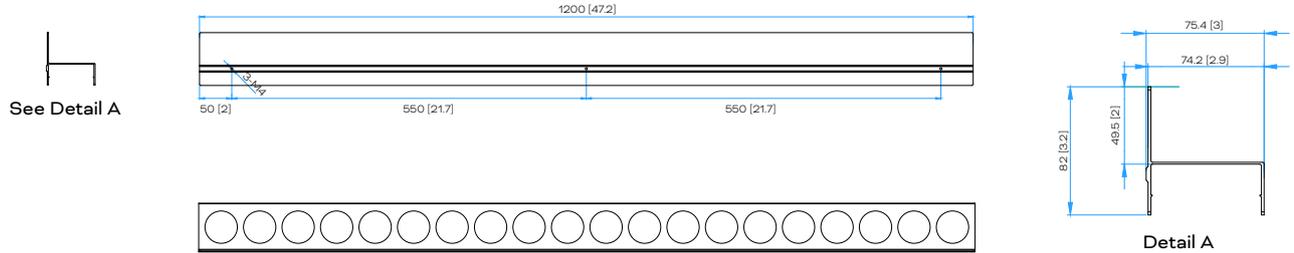
300mm [1ft] Min: 80 [3.1] / Max: 150 [5.9]
 600mm [2ft] Min: 100 [3.9] / Max: 450 [17.7]
 900mm [3ft] Min: 200 [7.9] / Max: 750 [29.5]
 1200mm [4ft] Min: 300 [11.8] / Max: 1050 [41.3]



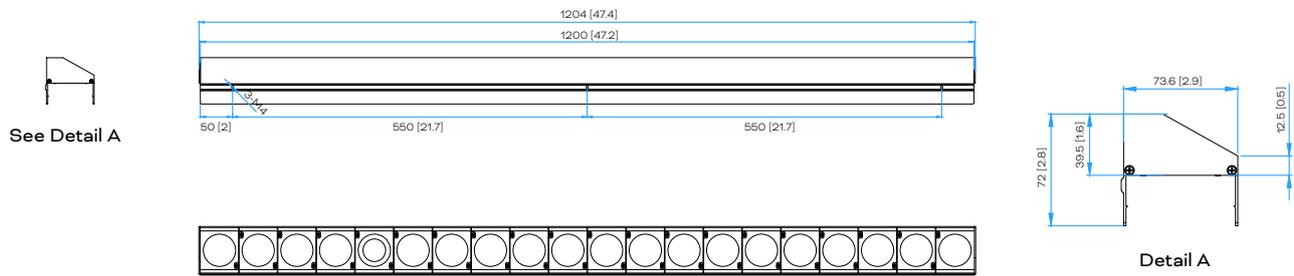
Optical Accessories

Unit: mm [inches]

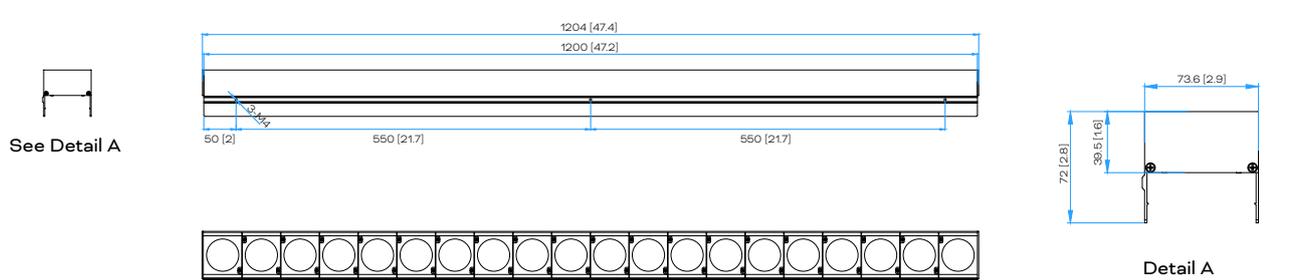
LINEAR PLUS HO LOUVER PLATE Quad



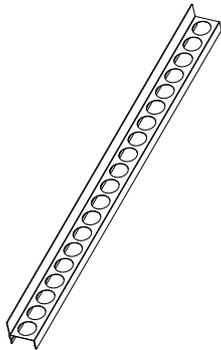
LINEAR PLUS HO LOUVER (ASYM) Quad



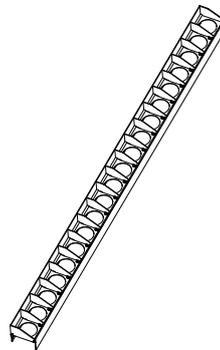
LINEAR PLUS HO LOUVER (SYM) Quad



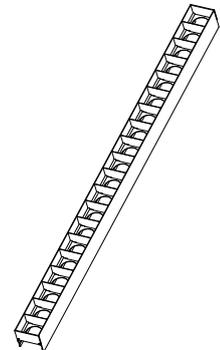
Color Finish: TX Signature Gray / Gray / Black / White



LINEAR PLUS HO LOUVER PLATE Quad



LINEAR PLUS HO LOUVER (ASYM) Quad



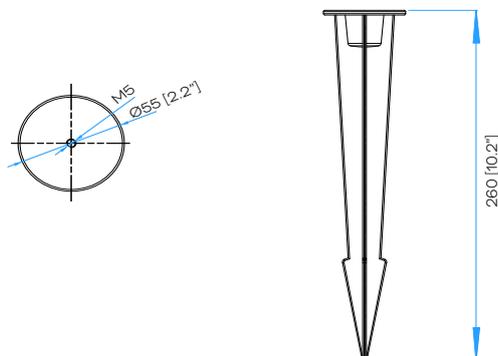
LINEAR PLUS HO LOUVER (SYM) Quad

NOTE: 300mm [11.8"] / 600mm [23.6"] / 900mm [35.4"] / 1200mm [47.2"] are available.

NOTE: Please see CAD files for additional dimensional data.

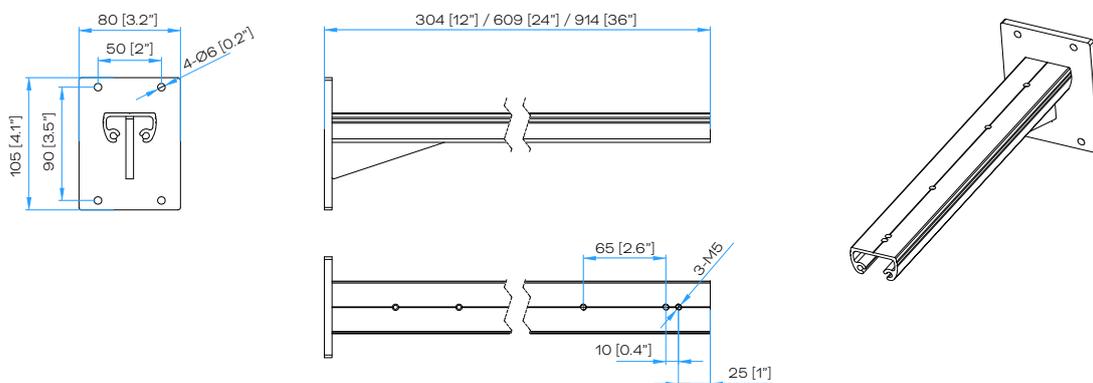
LINEAR PLUS STAKE KIT (1 PC) (DA25103496855)

Unit: mm [inches]



LINEAR PLUS WALL MOUNT ARM 300 / 600 / 900 (1 PC) (DA25103496555 / DA25103496655 / DA25103496755)

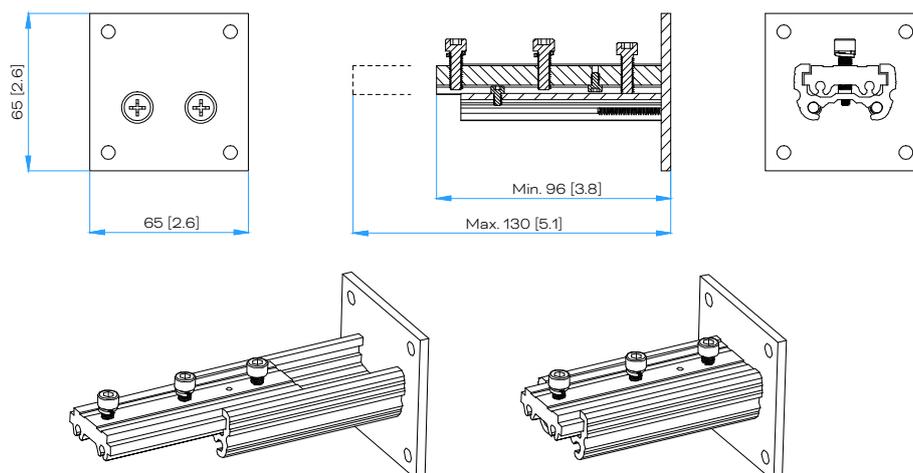
Unit: mm [inches]



For the Linear Wall Mount Arm: Length options include 300mm (11.81") / 600mm (23.62") / 900mm (35.43")

LINEAR PLUS WALL MOUNT ARM EXTENDABLE 96-130 (1 PC) (DA25103496455)

Unit: mm [inches]

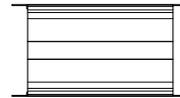
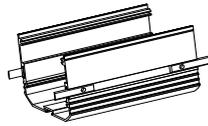
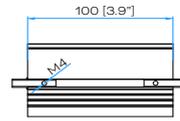
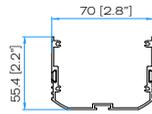


NOTE: Please see CAD files for additional dimensional data.

Mounting Accessories

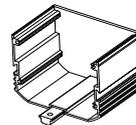
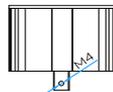
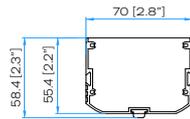
LINEAR PLUS HO CABLE CONCEALING KIT - MIDDLE (1PC) (DA25103513455)

Unit: mm [inches]



LINEAR PLUS HO CABLE CONCEALING KIT - END (1PC) (DA25103513555)

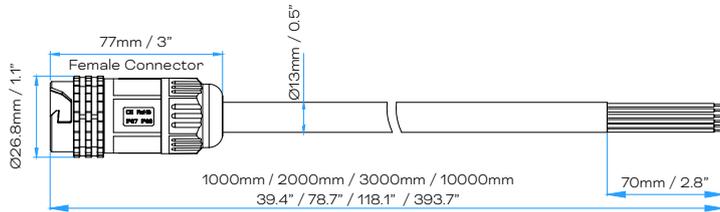
Unit: mm [inches]



NOTE: Please see CAD files for additional dimensional data.

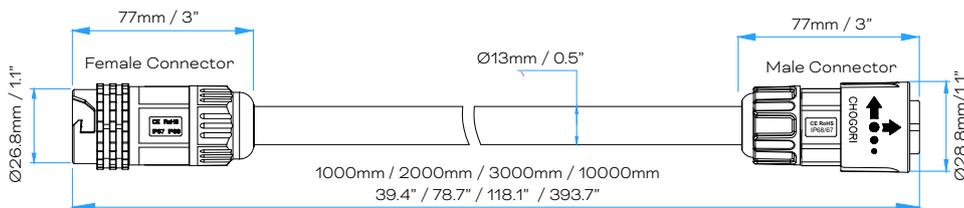
Connection Accessories

DMX Starter Cable



DMX Cable color connection	
Female connector	
Black	Green
White	White
Brown	Yellow
Blue	Blue
<ul style="list-style-type: none"> — Black: Line — White: Neutral — Brown: DMX+ — Blue: DMX- — Green: Protective Earth — Yellow: Not used 	

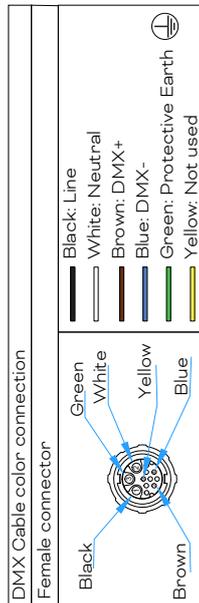
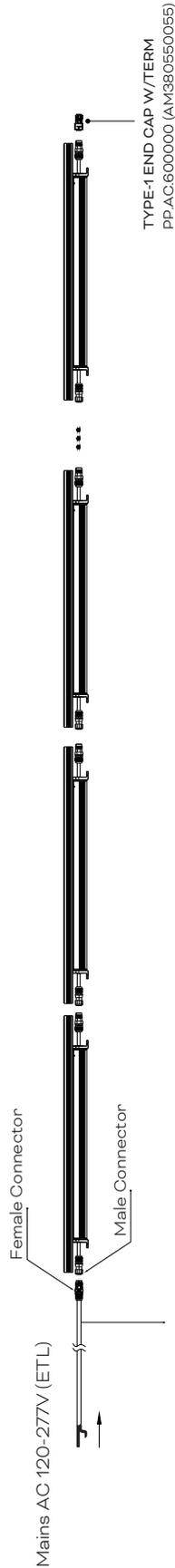
DMX Interconnection Cable



DMX Cable color connection	
Female connector	
Black	Green
White	White
Brown	Yellow
Blue	Blue
<ul style="list-style-type: none"> — Black: Line — White: Neutral — Brown: DMX+ — Blue: DMX- — Green: Protective Earth — Yellow: Not used 	
Male connector	
White	Green
Black	Black
Yellow	Yellow
Brown	Brown

NOTE: Please see CAD files for additional dimensional data.

Wiring Diagram without TYPE-1 Injector



Maximum Number of Fixture per Chain

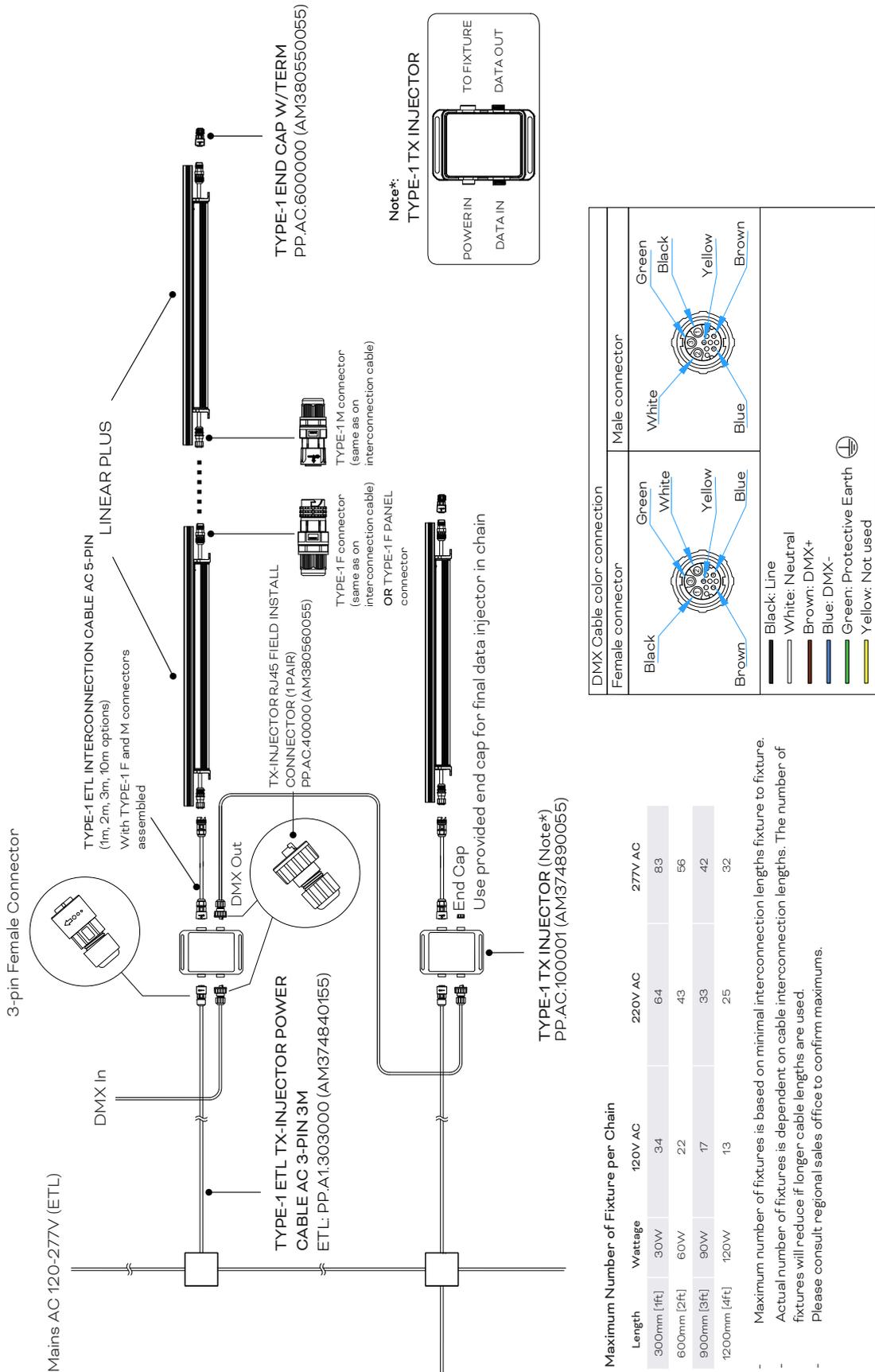
Length	Wattage		
	120V AC	220V AC	277V AC
300mm [1ft]	34	64	83
600mm [2ft]	22	43	56
900mm [3ft]	17	33	42
1200mm [4ft]	13	25	32

- Maximum number of fixtures is based on minimal interconnection lengths fixture to fixture.
- Actual number of fixtures is dependent on cable interconnection lengths. The number of fixtures will reduce if longer cable lengths are used.
- Please consult regional sales office to confirm maximums.

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- Actual number of fixtures is dependent on cable interconnection lengths. The number of fixtures will reduce if longer cable lengths are used.
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Wiring Diagram with TYPE-1 Injector

Fixtures with TYPE-1 connector - use with TYPE-1 Injector only



Model Number Builder

LI	PL	2	NN	1	N	1	N	N	1	2	N	N	N	1	00	
		Housing	Power per 0.3m (fft)	LED**	CCT***	CRI	Optics/Beam	Length	Control	Approbation	Color Finish	Pixel*	Cable/ Connector			
		2 - HO	20 - 20W	1-RGBW (Q)	3-3000K	1-Default	2 - 15°	1-300mm (1ft)	1 - DMX/RDM	2 - ETL	0 - TX Signature Gray	1 - 1PXL/fixture	1 - Type 1			
			30 - 30W		5 - 4000K		3 - 20°	2 - 600mm (2ft)			1 - Gray	2 - 2PXL/fixture	3 - Type 1 Panel			
							5 - 30°	3 - 900mm (3ft)			2 - Black	3 - 3PXL/fixture				
							8 - 45°	4 - 1200mm (4ft)			3 - White	4 - 4PXL/fixture				
							9 - 60°									
							C - 60°x15°									
							D - 60°x30°									

* Standard Pixel: 300mm fixture - 1PXL, 600mm fixture - 2PXL, 900mm - 3PXL, 1200mm fixture - 4 PXL.
 ** RGBW (Q) = RGBW Quad LED.
 *** CCT 3000K is on demand.

EXAMPLE LINEAR PLUS HO 20W RGBW30(Q) 15° 1200 ETL 4PXL (CC)
 Model Number: LI.PL.2201312412041100

LI	PL	2	20	1	3	1	2	4	1	2	0	4	1	1	00

Project Model Number

LI	PL	2	1	1	1	2	1	2	1	2	0	4	1	1	00

Injector

Model No.	Description	Item Code
PP.AC.100001	TYPE-1 TX INJECTOR	AM374890055
PP.AC.100002	TYPE-1 TX INJECTOR BL	AM374900055
PP.AC.100003	TYPE-1 TX INJECTOR WT	AM374910055
PP.AC.400000	TX INJECTOR RJ45 FLD CTRS (PAIR)	AM380560055

Cable/Connector

Model No.	Description	Item Code
PP.A1.303000	TYPE-1 ETL TX-INJECTOR POWER CABLE AC 3-PIN 3M	AM374840155
KO.KA.601000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 1M	AM357490055
KO.KA.602000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 2M	AM357500055
KO.KA.603000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 3M	AM357510055
KO.KA.610000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 10M	AM357520055
CA.SC.CC201000	TYPE-1 ETL STARTER CABLE AC 5-PIN 1M	DA23100149355
CA.SC.CC202000	TYPE-1 ETL STARTER CABLE AC 5-PIN 2M	DA23100149455
CA.SC.CC203000	TYPE-1 ETL STARTER CABLE AC 5-PIN 3M	DA23100149555
CA.SC.CC210000	TYPE-1 ETL STARTER CABLE AC 5-PIN 10M	DA23100149655
PP.AC.600000	TYPE-1 END CAP W/TERM	AM380550055

Optical Accessories

Model No.	Description	Item Code
LIPLLO-S.6L3000	LINEAR PLUS HO LOUVER (SYM) Quad 300	DA25103495255
LIPLLO-S.7L3000	LINEAR PLUS HO LOUVER (SYM) Quad 600	DA25103495355
LIPLLO-S.8L3000	LINEAR PLUS HO LOUVER (SYM) Quad 900	DA25103495455
LIPLLO-S.9L3000	LINEAR PLUS HO LOUVER (SYM) Quad 1200	DA25103495555
LIPLLO-A.6L3000	LINEAR PLUS HO LOUVER (ASYM) Quad 300	DA25103495655
LIPLLO-A.7L3000	LINEAR PLUS HO LOUVER (ASYM) Quad 600	DA25103495755
LIPLLO-A.8L3000	LINEAR PLUS HO LOUVER (ASYM) Quad 900	DA25103495855
LIPLLO-A.9L3000	LINEAR PLUS HO LOUVER (ASYM) Quad 1200	DA25103495955
LIPLLO-P.6L3000	LINEAR PLUS HO LOUVER PLATE Quad 300	DA25103496055
LIPLLO-P.7L3000	LINEAR PLUS HO LOUVER PLATE Quad 600	DA25103496155
LIPLLO-P.8L3000	LINEAR PLUS HO LOUVER PLATE Quad 900	DA25103496255
LIPLLO-P.9L3000	LINEAR PLUS HO LOUVER PLATE Quad 1200	DA25103496355

NOTE: Optical accessories color finish can be TX Signature Gray / Gray / Black / White.

Mounting Accessories

Model No.	Description	Item Code
N/A	LINEAR PLUS WALL MOUNT ARM EXTENDABLE 96-130 (1 PC)	DA25103496455
N/A	LINEAR PLUS WALL MOUNT ARM 300 (1 PC)	DA25103496555
N/A	LINEAR PLUS WALL MOUNT ARM 600 (1 PC)	DA25103496655
N/A	LINEAR PLUS WALL MOUNT ARM 900 (1 PC)	DA25103496755
N/A	LINEAR PLUS STAKE KIT (1 PC)	DA25103496855
N/A	LINEAR PLUS HO CABLE CONCEALING KIT - MIDDLE (1PC)	DA25103513455
N/A	LINEAR PLUS HO CABLE CONCEALING KIT - END (1PC)	DA25103513555

