TRAXON Plus⁺

Linear Plus RGBW Quad

Project: _____

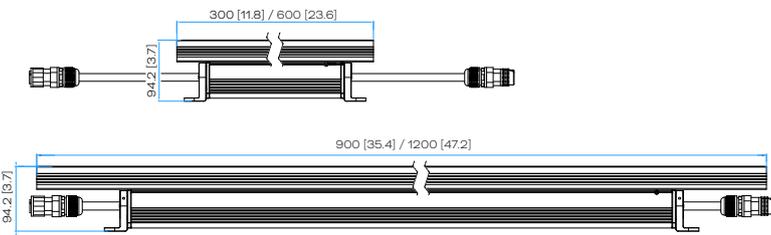Type: _____

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.
This product is intended for use in high-quality colored light applications.

Technologies

- Auto-Addressing / Manual Addressing
- Dynamic Boost

Features

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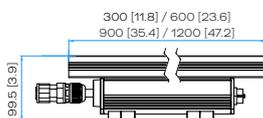- Assortment of optical and installation accessories

Color Options

RGBW 3000K QUAD

RGBW 4000K QUAD

Dimensions

Unit: mm [inches]

300 [11.8] / 600 [23.6]

94.2 [3.7]

900 [35.4] / 1200 [47.2]

94.2 [3.7]

Panel Mount Output Version
Unit: mm [inches]

300 [11.8] / 600 [23.6]
900 [35.4] / 1200 [47.2]

99.5 [3.9]

Beam Angles

15° 20° 30°

45° 60° 55° 20°

H V

60° 15° 60° 30°

H V H V

Finish

Traxon Signature Gray RAL 7005

RAL 7015

RAL 9005

RAL 9003

C
Custom

TRAXON Plus⁺

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°, 55° x 20°, 60° x 15°, 60 ° x 30°			
Luminous Flux (Full On)	15W: 1050lm (15°)	30W: 2100lm (15°)	45W: 3240lm (15°)	60W: 4300lm (15°)
Efficacy (Full On)	15W: 70lm/W (15°)	30W: 71lm/W (15°)	45W: 72lm/W (15°)	60W: 73lm/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 50mm x 94mm 11.8" x 2" x 3.7"	600mm x 50mm x 94mm 23.6" x 2" x 3.7"	900mm x 50mm x 94mm 35.4" x 2" x 3.7"	1200mm x 50mm x 94mm 47.2" x 2" x 3.7"
Dimensions (Panel Mount) (L x W x H)	300mm x 50mm x 99.5mm 11.8" x 2" x 3.9"	600mm x 50mm x 99.5mm 23.6" x 2" x 3.9"	900mm x 50mm x 99.5mm 35.4" x 2" x 3.9"	1200mm x 50mm x 99.5mm 47.2" x 2" x 3.9"
Weight	1.9kg / 4.2lbs	3.1kg/6.8lbs	4.4kg/9.7lbs	5.6kg / 12.4lbs
Weight (Panel Mount)	1.9kg / 4.2lbs	3.1kg/6.8lbs	4.4kg/9.7lbs	5.6kg / 12.4lbs
EPA	Front: 0.06 sq.ft Side: 0.45 sq.ft	Front: 0.06 sq.ft Side: 0.8 sq.ft	Front: 0.06 sq.ft Side: 0.92 sq.ft	Front: 0.06 sq.ft Side: 1.27 sq.ft
EPA (Panel Mount)	Front: 0.06 sq.ft Side: 0.32 sq.ft	Front: 0.06 sq.ft Side: 0.67 sq.ft	Front: 0.06 sq.ft Side: 1.02 sq.ft	Front: 0.06 sq.ft Side: 1.34 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)	4 / 8 / 12 / 15	8 / 16 / 24 / 30	12 / 24 / 36 / 45	16 / 32 / 48 / 60
Lumen Maintenance	L70 @ 25°C – 100,000 hours			

System Specifications

Power Supply	AC line
Control	DMX/RDM RDM Personalities¹: 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 model

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 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.

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.
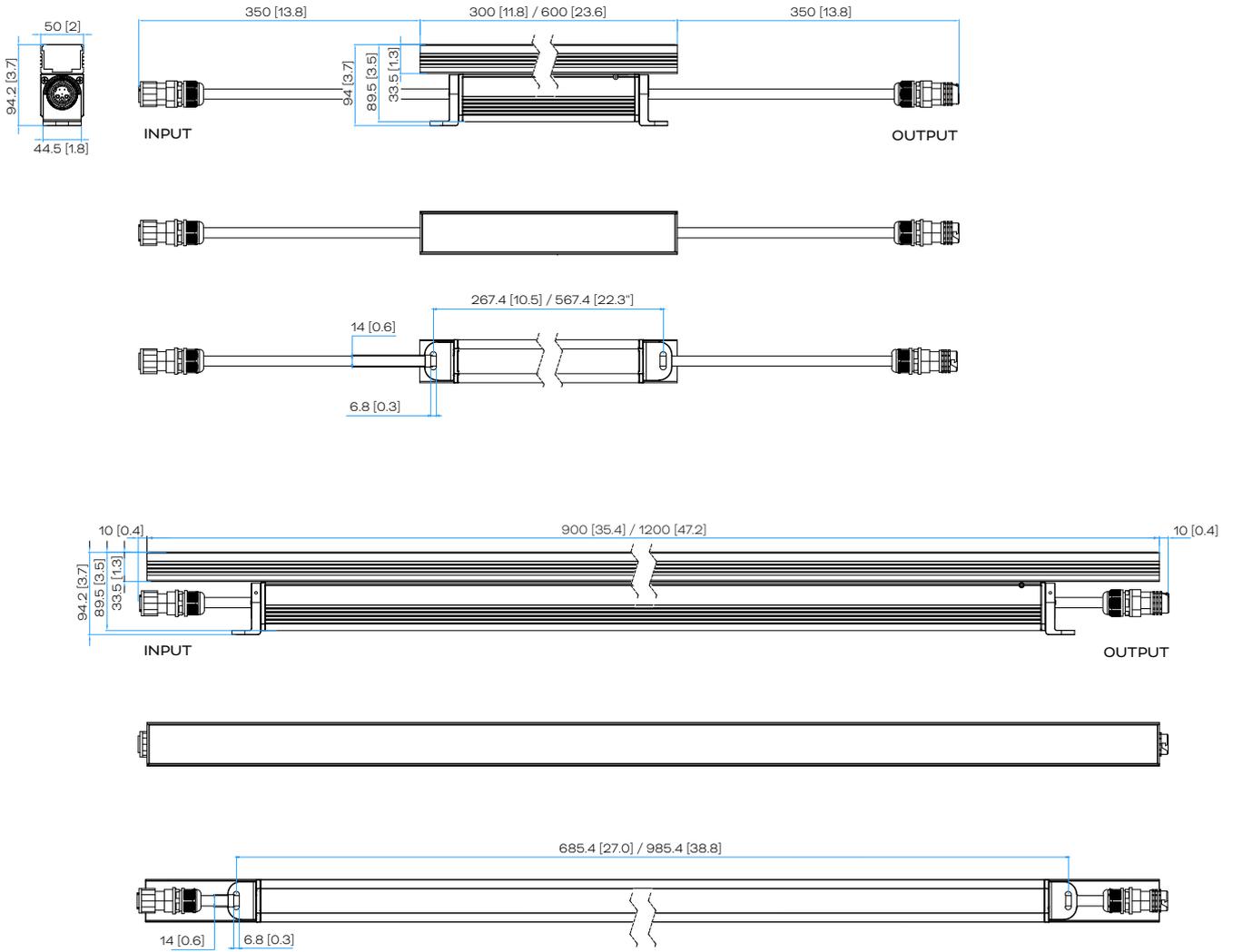
This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.
Lumen measurement compiles with LM-79-08 standard.
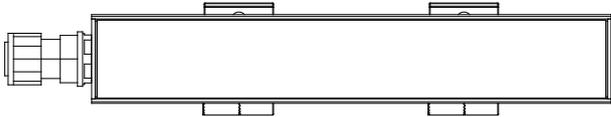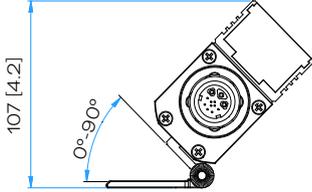Lumen maintenance is calculated based on LM-80 compliant measurement.

TRAXON Plus⁺

Fixture

Unit: mm [inches]

350 [13.8] 300 [11.8] / 600 [23.6] 350 [13.8]

50 [2]
94.2 [3.7]
44.5 [1.8]
94 [3.7]
89.5 [3.5]
33.5 [1.3]

INPUT   OUTPUT

267.4 [10.5] / 567.4 [22.3"]

14 [0.6]

6.8 [0.3]

10 [0.4]   900 [35.4] / 1200 [47.2]   10 [0.4]

94.2 [3.7]
89.5 [3.5]
33.5 [1.3]

INPUT   OUTPUT

685.4 [27.0] / 985.4 [38.8]

14 [0.6]   6.8 [0.3]

NOTE: Please see CAD files for additional dimensional data.

TRAXON Plus⁺

Panel Mount Option

Unit: mm [inches]

50 [2]

99.5 [3.9]
89.5 [3.5]

63 [2.5]

300 [11.8] / 600 [23.6] / 900 [35.4] / 1200 [47.2]

37.1 [1.5]   46.5 [1.8]

33.5 [1.3]

48.2 [1.9]

107 [4.2]

0°–90°

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]

10.5 [0.4]   4.5 [0.2]

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TRAXON Plus⁺

Optical Accessories

Unit: mm [inches]

LINEAR PLUS LOUVER PLATE Quad

See Detail A

Detail A

LINEAR PLUS LOUVER (ASYM) Quad

See Detail A

Detail A

LINEAR PLUS HO LOUVER (SYM) Quad

See Detail A

Detail A

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

LINEAR PLUS LOUVER PLATE Quad

LINEAR PLUS 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.

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Product Specification

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TRAXON Plus⁺

Mounting Accessories

LINEAR PLUS STAKE KIT (1 PC) (DA25103496855)

Unit: mm [inches]

M5
Ø55 [2.2"]
260 [10.2"]

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

Unit: mm [inches]

80 [3.2"]
50 [2"]
4-Ø6 [0.2"]
105 [4.1"]
90 [3.5"]

304 [12"] / 609 [24"] / 914 [36"]

65 [2.6"]
3-M5
10 [0.4"]
25 [1"]

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]

65 [2.6]
65 [2.6]

Min. 96 [3.8]
Max. 130 [5.1]

NOTE: Please see CAD files for additional dimensional data.

TRAXON Plus⁺

Mounting Accessories

LINEAR PLUS CABLE CONCEALING KIT - MIDDLE (1PC) (DA25103513255)

Unit: mm [inches]

50 [2"]

55.4 [2.2"]

100 [3.9"]

M4

LINEAR PLUS CABLE CONCEALING KIT - END (1PC) (DA25103513355)

Unit: mm [inches]

50 [2"]

58.4 [2.3"]

55.4 [2.2"]

48 [1.9"]

M4

NOTE: Please see CAD files for additional dimensional data.

TRAXON Plus⁺

Connection Accessories

DMX Starter Cable

77mm / 3"
Female Connector
Ø26.8mm / 1.1"
Ø13mm / 0.5"

1000mm / 2000mm / 3000mm / 10000mm
39.4" / 78.7" / 118.1" / 393.7"

70mm / 2.8"

DMX Cable color connection	
Female connector	

Black — Green / White / Yellow / Brown / Blue

Black: Line
White: Neutral
Brown: DMX+
Blue: DMX-
Green: Protective Earth
Yellow: Not used

DMX Interconnection Cable

77mm / 3"
Female Connector
Ø26.8mm / 1.1"
Ø13mm / 0.5"

77mm / 3"
Male Connector
Ø28.8mm / 1.1"
CHOGORI

1000mm / 2000mm / 3000mm / 10000mm
39.4" / 78.7" / 118.1" / 393.7"

DMX Cable color connection	
Female connector	Male connector

Female connector:
Black / Green / White / Yellow / Brown / Blue

Male connector:
White / Green / Black / Yellow / Blue / Brown

Black: Line
White: Neutral
Brown: DMX+
Blue: DMX-
Green: Protective Earth
Yellow: Not used

NOTE: Please see CAD files for additional dimensional data.

Wiring Diagram without TYPE-1 Injector

Mains AC 120-277V (ETL)

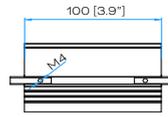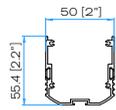

Female Connector
Male Connector
TYPE-1 ETLSTARTER CABLE AC 5-PIN
TYPE-1 END CAP W/TERM
PP.AC.600000 (AM380550055)

DMX Cable color connection

Female connector

Black
Green
White
Yellow
Brown
Blue

- ▬ Black: Line
- ▬ White: Neutral
- ▬ Brown: DMX+
- ▬ Blue: DMX-
- ▬ Green: Protective Earth ⏚
- ▬ Yellow: Not used

- 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.

Maximum Number of Fixture per Chain

Length	Wattage	120V AC	220V AC	277V AC
300mm [1ft]	15W	48	92	118
600mm [2ft]	30W	32	62	80
900mm [3ft]	45W	25	49	62
1200mm [4ft]	60W	21	41	52

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Wiring Diagram with TYPE-1 Injector

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

Mains AC 120-277V (ETL)

3-pin Female Connector

DMX In

DMX Out

TYPE-1 ETL TX-INJECTOR POWER
CABLE AC 3-PIN 3M
ETL: PP.A1.303000 (AM374840155)

TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN
(1m, 2m, 3m, 10m options)
With TYPE-1 F and M connectors
assembled

LINEAR PLUS

TYPE-1 END CAP W/TERM
PP.AC.600000 (AM380550055)

TYPE-1 M connector
(same as on
interconnection cable)

TYPE-1 F connector
(same as on
interconnection cable)
OR TYPE-1 F PANEL
connector

TX-INJECTOR RJ45 FIELD INSTALL
CONNECTOR (1 PAIR)
PP.AC.40000 (AM380560055)

End Cap
Use provided end cap for final data injector in chain

TYPE-1 TX INJECTOR (Note*)
PP.AC.100001 (AM374890055)

Note*:
TYPE-1 TX INJECTOR

POWER IN   DATA IN   TO FIXTURE   DATA OUT

DMX Cable color connection

Female connector		Male connector	
Black	Green	White	Green
	White		Black
	Yellow		Yellow
Brown	Blue	Blue	Brown

Black: Line
White: Neutral
Brown: DMX+
Blue: DMX-
Green: Protective Earth
Yellow: Not used

Maximum Number of Fixture per Chain

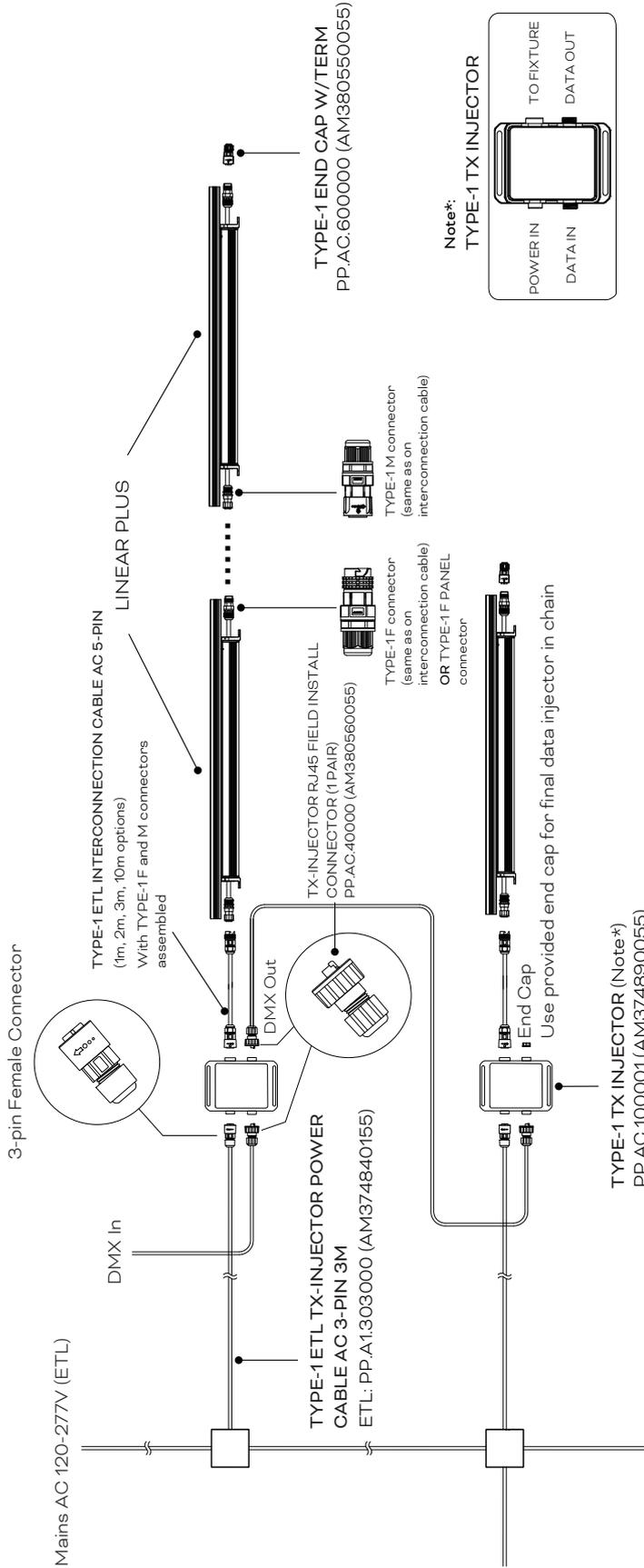| Length	Wattage	120V AC	220V AC	277V AC
300mm [1ft]	15W	48	92	118
600mm [2ft]	30W	32	62	80
900mm [3ft]	45W	25	49	62
1200mm [4ft]	60W	21	41	52

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.
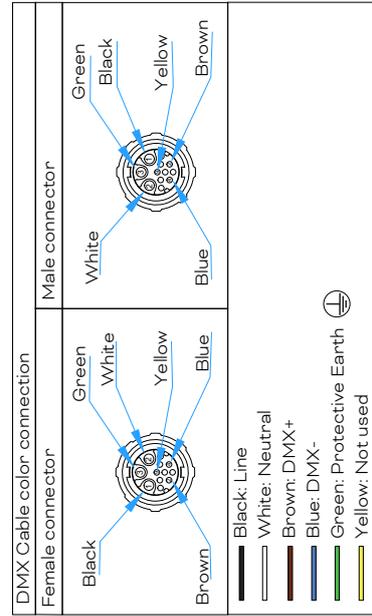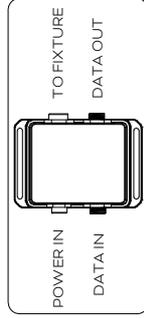Please consult regional sales office to confirm maximums.

Model Number Builder

LI.	PL.	1	NN	1	N	1	N	N	1	2	N	N	N	1	00
		Housing	Power per 0.3m (1ft)	LED**	CCT***	CRI	Optics/Beam	Length	Control	Approbation	Color Finish	Pixel*	Cable/Connector		
			04 - 4W	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		
			08 - 8W		5 - 4000K		3 - 20°	2 - 600mm (2ft)			1 - Gray	2 - 2PXL/fixture	3 - Type 1 Panel		
			12 - 12W				5 - 30°	3 - 900mm (3ft)			2 - Black	3 - 3PXL/fixture			
			15 - 15W				8 - 45°	4 - 1200mm (4ft)			3 - White	4 - 4PXL/fixture			
							9 - 60°								
							E - 55°x20°								
							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 60W RGBW30(Q) 15° 1200 ETL 4PXL (CC)
                     Model Number: LI.PL.1151312412041100

LI.	PL.	1	15	1	3	1	2	4	1	2	0	4	1	1	00

Project Model Number

LI.	PL.	1		1		1			1	2				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

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Optical Accessories

Model No.	Description	Item Code
LIPL.LO-S.6L1000	LINEAR PLUS LOUVER (SYM) Discrete 300	DA25103492855
LIPL.LO-S.7L1000	LINEAR PLUS LOUVER (SYM) Discrete 600	DA25103492955
LIPL.LO-S.8L1000	LINEAR PLUS LOUVER (SYM) Discrete 900	DA25103493055
LIPL.LO-S.9L1000	LINEAR PLUS LOUVER (SYM) Discrete 1200	DA25103493155
LIPL.LO-A.6L1000	LINEAR PLUS LOUVER (ASYM) Discrete 300	DA25103493255
LIPL.LO-A.7L1000	LINEAR PLUS LOUVER (ASYM) Discrete 600	DA25103493355
LIPL.LO-A.8L1000	LINEAR PLUS LOUVER (ASYM) Discrete 900	DA25103493455
LIPL.LO-A.9L1000	LINEAR PLUS LOUVER (ASYM) Discrete 1200	DA25103493555
LIPL.LO-P.6L1000	LINEAR PLUS LOUVER PLATE Discrete 300	DA25103493655
LIPL.LO-P.7L1000	LINEAR PLUS LOUVER PLATE Discrete 600	DA25103493755
LIPL.LO-P.8L1000	LINEAR PLUS LOUVER PLATE Discrete 900	DA25103493855
LIPL.LO-P.9L1000	LINEAR PLUS LOUVER PLATE Discrete 1200	DA25103493955

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 CABLE CONCEALING KIT - MIDDLE (1PC)	DA25103513255
N/A	LINEAR PLUS CABLE CONCEALING KIT - END (1PC)	DA25103513355