TRAXON Plus+

Linear Plus RGBW Discrete

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.

Features

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

Technologies

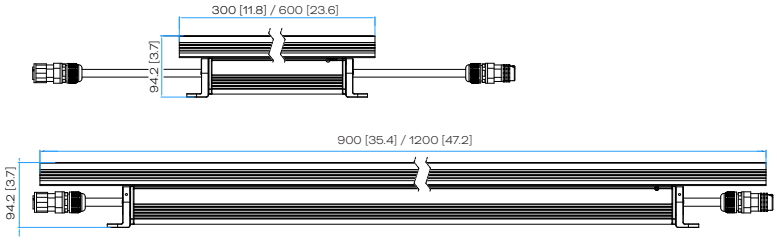
- Auto-Addressing / Manual Addressing
- Dynamic Boost

Color Options

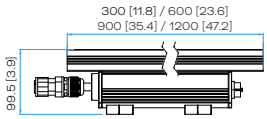
RGBA option is on demand

Dimensions

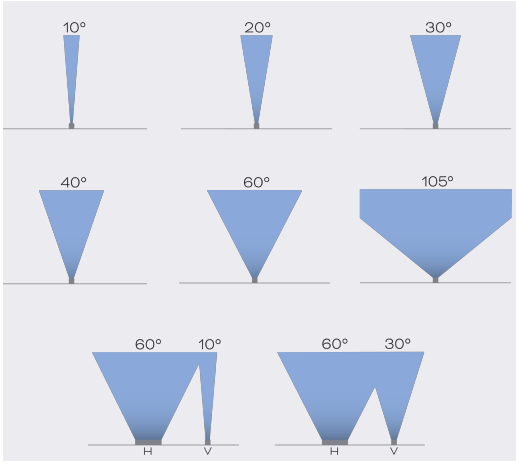
Unit: mm [inches]



Panel Mount Output Version
Unit: mm [inches]



Beam Angles



Finish

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Linear Plus RGBW Discrete

Specifications

Product Specifications

	RGBW Discrete (D) 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: 450nm			
Color Resolution	16-Bit Grayscale, Gamma 2.2			
Refresh Rate	12kHz			
LED Quantity	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Beam Angle	10°, 20°, 30° 40°, 60°, 105°, 60° x 10°, 60 ° x 30°			
Luminous Flux (White Balance Mode)	15W: 840 lm (10° W4000K Full On)	30W: 1770 lm (10° W4000K Full On)	45W: 2700 lm (10° W4000K Full On)	60W: 3660 lm (10° W4000K Full On)
Efficacy (White Balance Mode)	15W:56 lm/W (10° W4000K Full On)	30W: 59 lm/W (10° W4000K Full On)	45W: 60 lm/W (10° W4000K Full On)	60W:61 lm/W (10° W4000K Full On)
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 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 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 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 compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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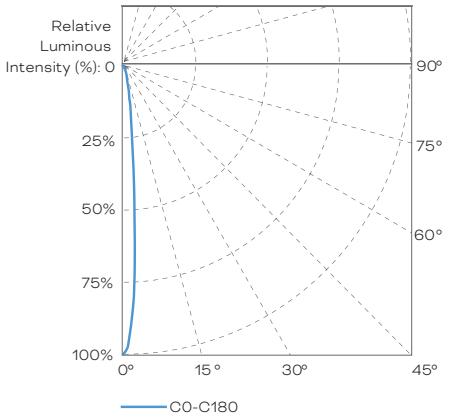
Source Specifications

Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Source	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Optics	10°			

Candela Distribution



Light Output

		Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	192.0	3500	48.0
	8W		424.0	7729	53.0
	12W		660.0	12030	55.0
	15W		840.0	15312	56.0
600mm [2ft]	8W	RGBW40 (Full On)	424.0	7729	53.0
	16W		896.0	16332	56.0
	24W		1392.0	25373	58.0
	30W		1770.0	32264	59.0
900mm [3ft]	12W	RGBW40 (Full On)	720.0	13124	60.0
	24W		1440.0	26248	60.0
	36W		2160.0	39372	60.0
	45W		2700.0	49216	60.0
1200mm [4ft]	16W	RGBW40 (Full On)	880.0	16041	55.0
	32W		1856.0	33831	58.0
	48W		2928.0	53372	61.0
	60W		3660.0	66714	61.0

Luminaire setting: White Balance mode.

		Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	136.2	2482	34.0
	8W		302.1	5506	37.8
	12W		470.9	8583	39.2
	15W		600.0	10937	40.0
600mm [2ft]	8W	RGBW40 (Full On)	314.2	5728	39.3
	16W		697.1	12707	43.6
	24W		1086.6	19807	45.3
	30W		1384.6	25239	46.2
900mm [3ft]	12W	RGBW40 (Full On)	471.8	8600	39.3
	24W		1046.7	19080	43.6
	36W		1631.6	29741	45.3
	45W		2079.0	37897	46.2
1200mm [4ft]	16W	RGBW40 (Full On)	640.0	11665	40.0
	32W		1419.8	25880	44.4
	48W		2213.1	40341	46.1
	60W		2820.0	51403	47.0

Luminaire setting: Dynamic Boost mode.

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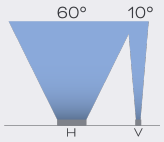
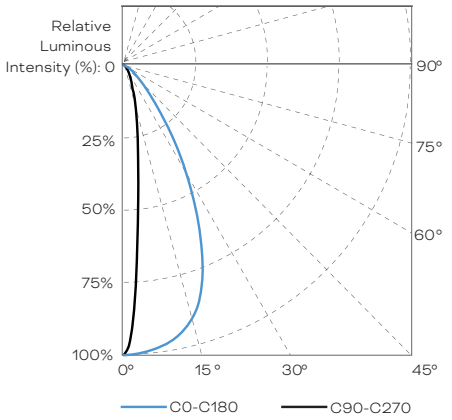
Linear Plus RGBW Discrete

Photometrics

Source Specifications

Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Source	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Optics	60° x 10° 			

Candela Distribution



Light Output

		Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	183.7	648	45.9
	8W		405.6	1432	50.7
	12W		631.4	2228	52.6
	15W		803.6	2836	53.6
600mm [2ft]	8W	RGBW40 (Full On)	405.6	1432	50.7
	16W		857.2	3025	53.6
	24W		1331.7	4700	55.5
	30W		1693.4	5976	56.4
900mm [3ft]	12W	RGBW40 (Full On)	688.8	2431	57.4
	24W		1377.6	4862	57.4
	36W		2066.5	7293	57.4
	45W		2583.1	9116	57.4
1200mm [4ft]	16W	RGBW40 (Full On)	841.9	2971	52.6
	32W		1775.6	6266	55.5
	48W		2801.2	9885	58.4
	60W		3501.5	12357	58.4

Luminaire setting: White Balance mode.

		Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	130.3	460	32.6
	8W		289.0	1020	36.1
	12W		450.5	1590	37.5
	15W		574.0	2026	38.3
600mm [2ft]	8W	RGBW40 (Full On)	300.6	1061	37.6
	16W		666.9	2354	41.7
	24W		1039.6	3669	43.3
	30W		1324.7	4675	44.2
900mm [3ft]	12W	RGBW40 (Full On)	451.4	1593	37.6
	24W		1001.4	3534	41.7
	36W		1561.0	5509	43.4
	45W		1989.0	7019	44.2
1200mm [4ft]	16W	RGBW40 (Full On)	612.2	2161	38.3
	32W		1358.3	4793	42.4
	48W		2117.3	7472	44.1
	60W		2697.9	9521	45.0

Luminaire setting: Dynamic Boost mode.

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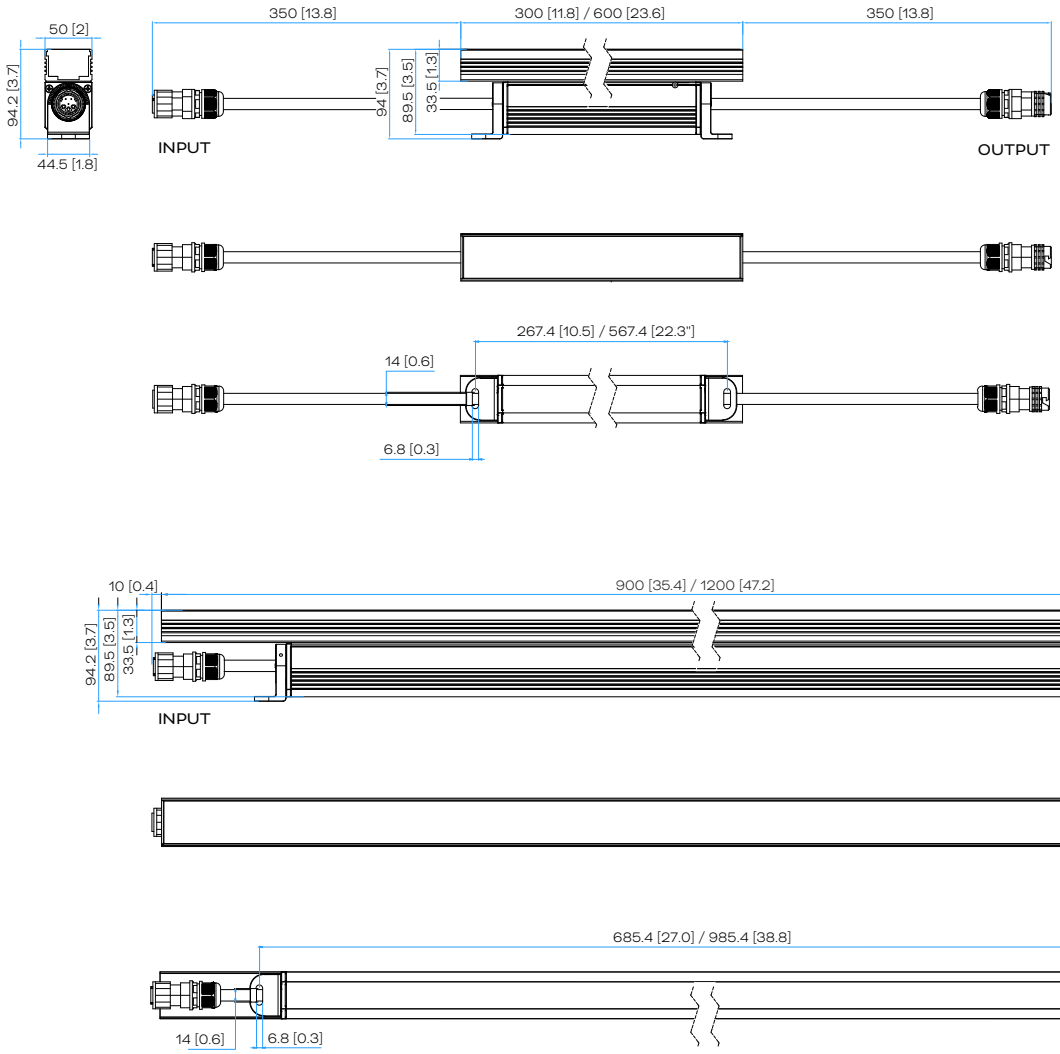
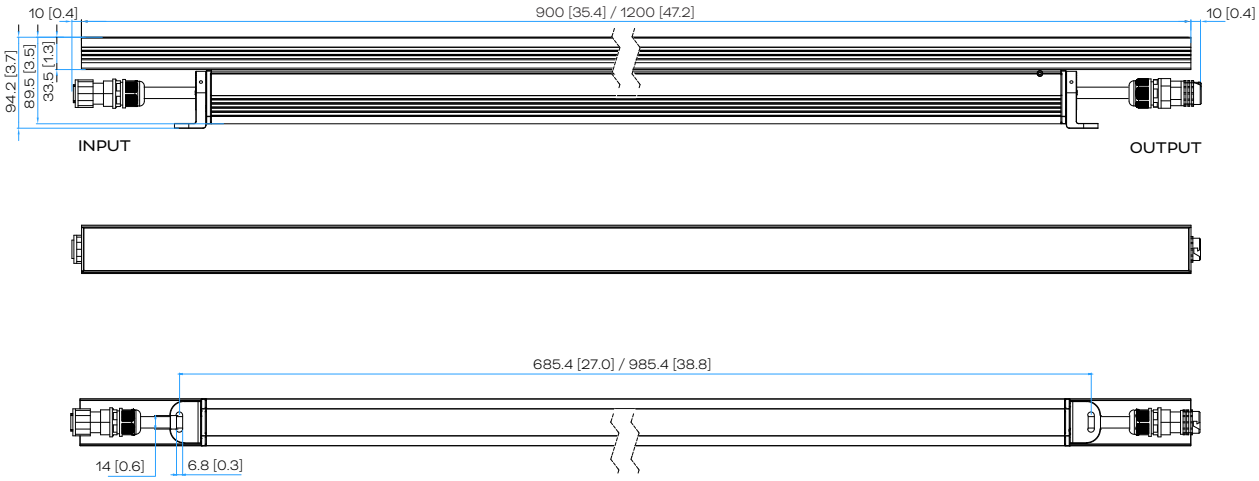
Fixture

Unit: mm [inches]





NOTE: Please see CAD files for additional dimensional data.

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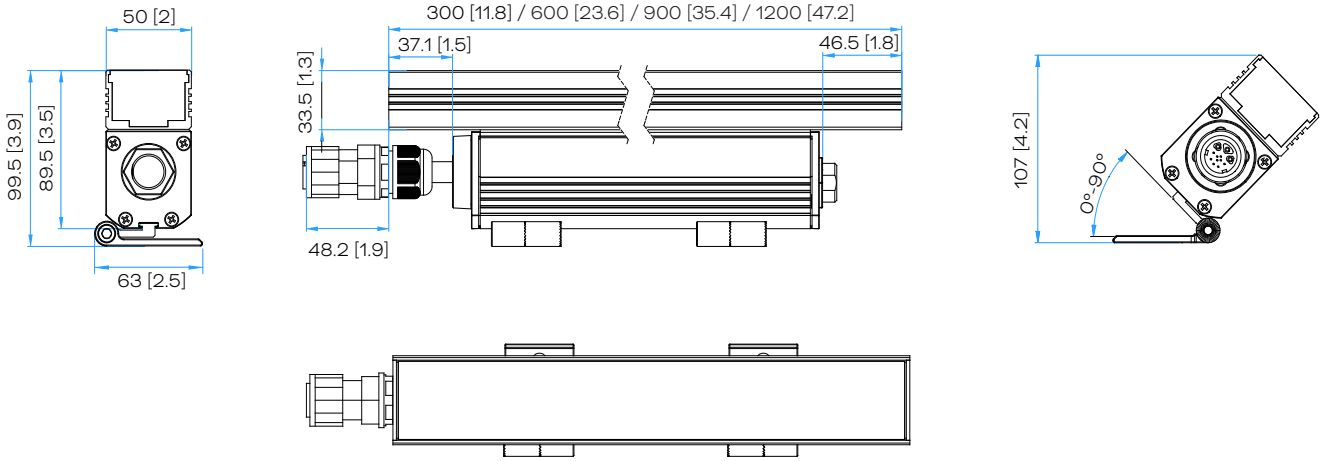
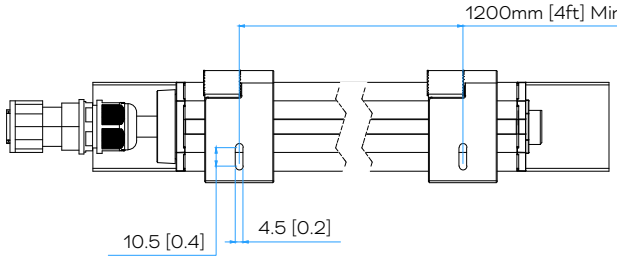
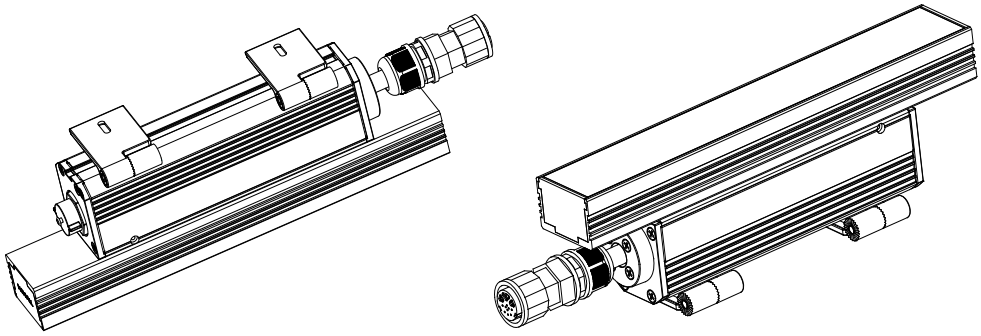
Panel Mount Option

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]





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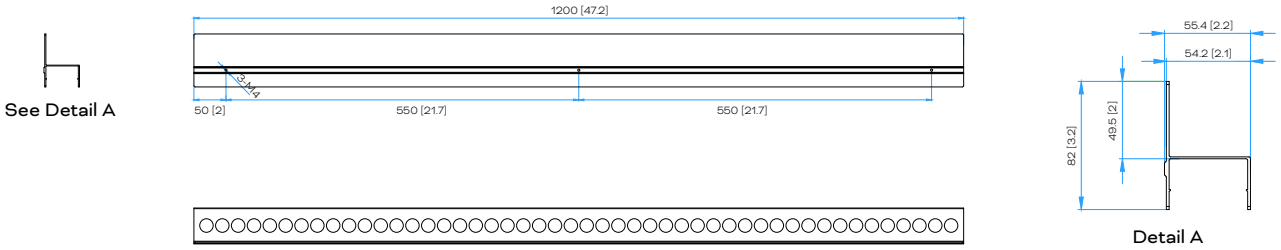
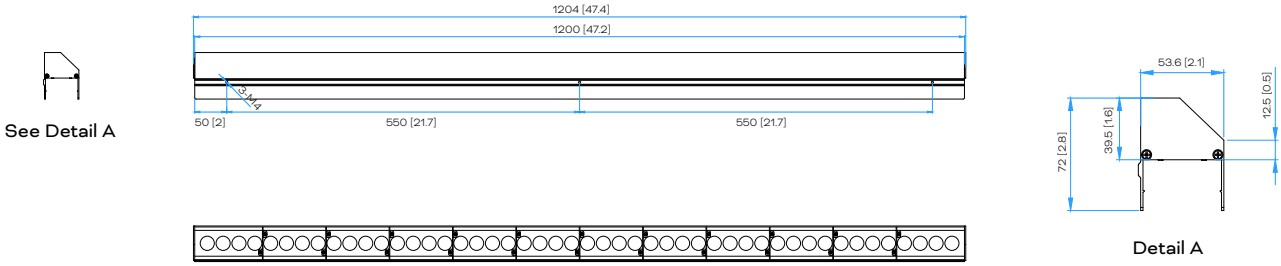
Optical Accessories

Unit: mm [inches]

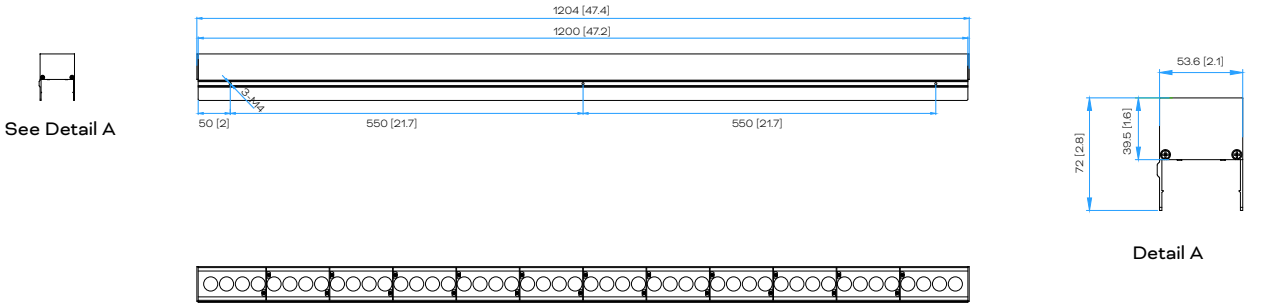
LINEAR PLUS LOUVER PLATE Discrete



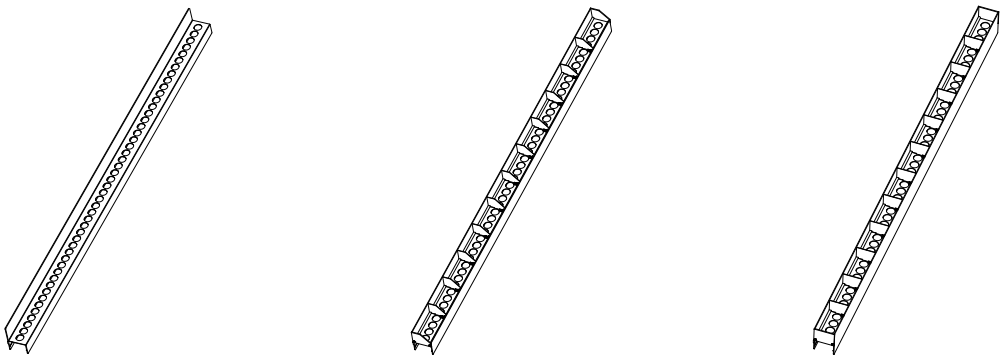
LINEAR PLUS LOUVER (ASYM) Discrete



LINEAR PLUS LOUVER (SYM) Discrete



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



LINEAR PLUS LOUVER PLATE Discrete | LINEAR PLUS LOUVER (ASYM) Discrete | LINEAR PLUS LOUVER (SYM) Discrete

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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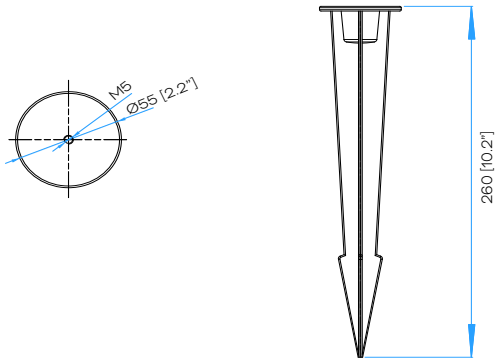
Mounting Accessories

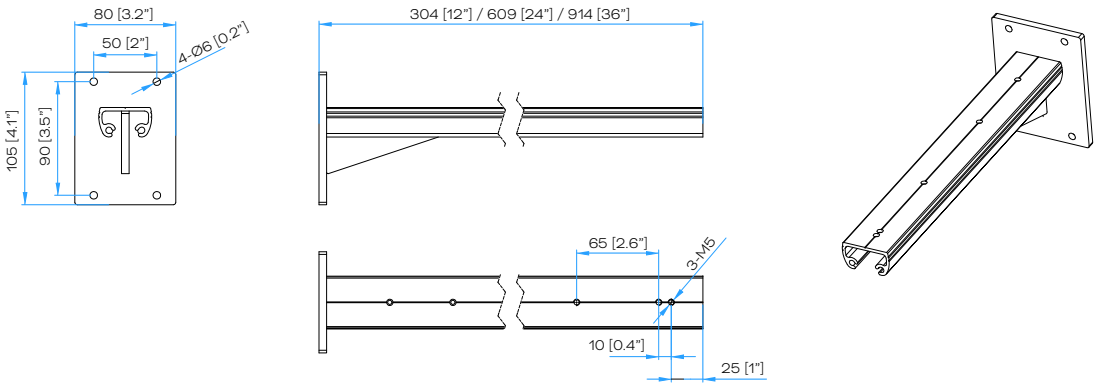
LINEAR PLUS STAKE KIT (1 PC) (DA25103496855)

Unit: mm [inches]



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

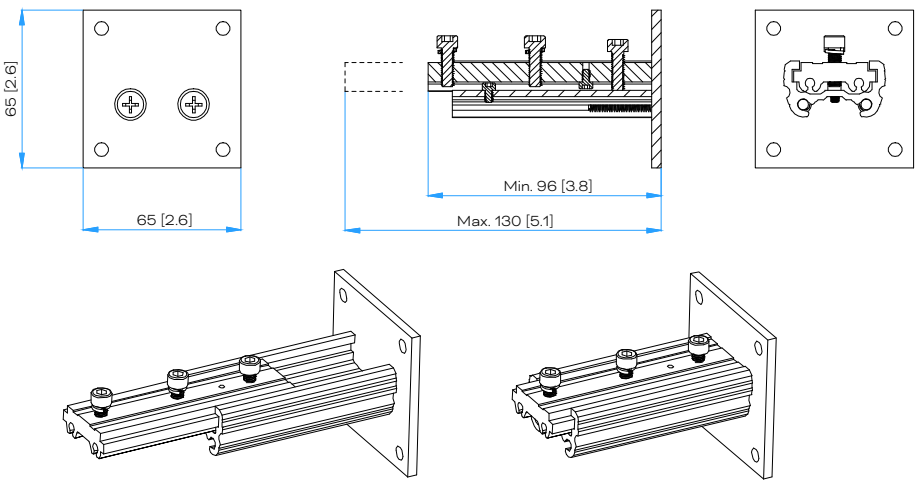
Unit: mm [inches]



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.

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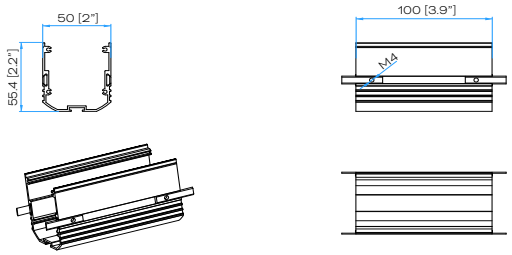
Mounting Accessories

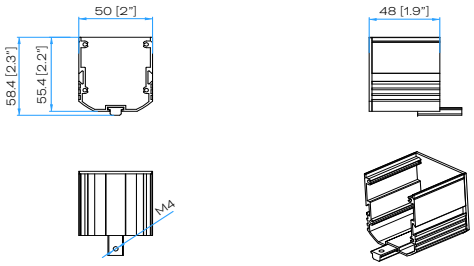
LINEAR PLUS CABLE CONCEALING KIT - MIDDLE (1PC) (DA25103513255)

Unit: mm [inches]



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

Unit: mm [inches]



NOTE: Please see CAD files for additional dimensional data.

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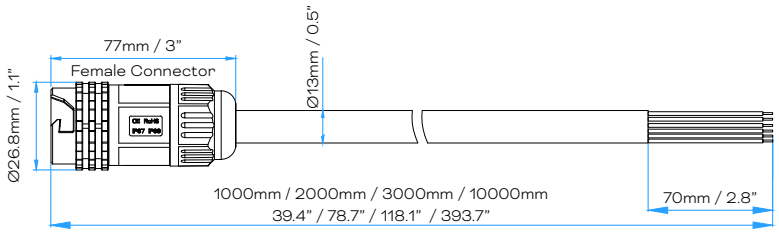
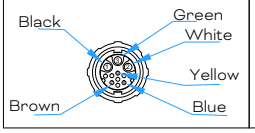
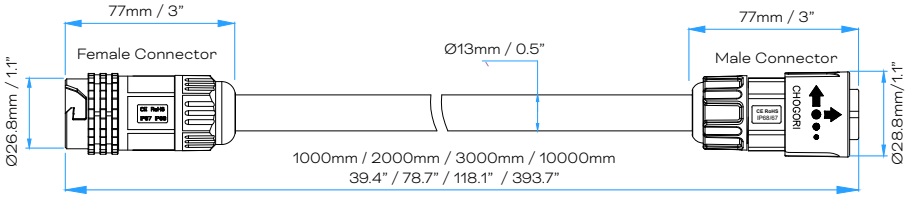
Connection Accessories

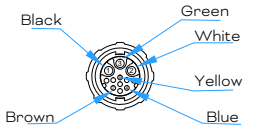
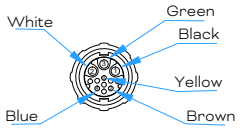
DMX Starter Cable



DMX Cable color connection	
Female connector	
	Black: Line White: Neutral Brown: DMX+ Blue: DMX- Green: Protective Earth Yellow: Not used

DMX Interconnection Cable



DMX Cable color connection	
Female connector	Male connector
	

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

NOTE: Please see CAD files for additional dimensional data.

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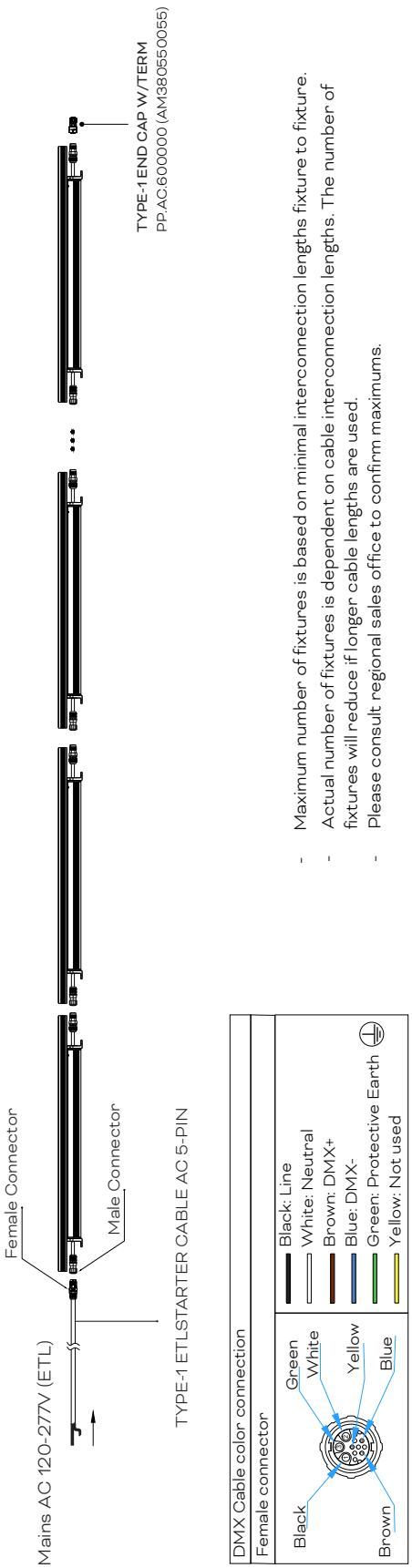
Wiring Diagram without TYPE-1 Injector



- 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

- 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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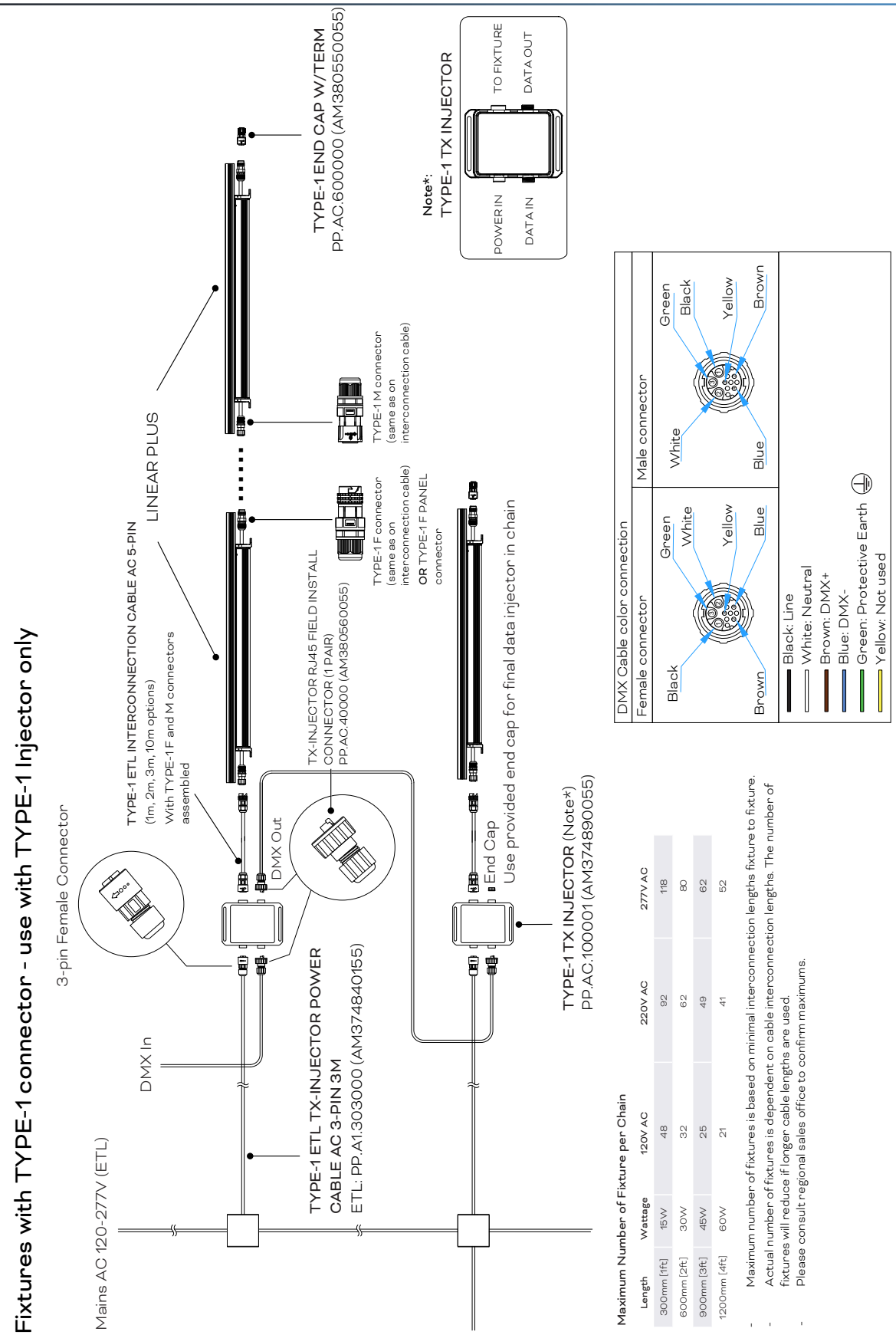
Wiring Diagram with TYPE-1 Injector



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Linear Plus RGBW Discrete

Model Number Builder

LI.	PL.	1	NN	N	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	2 - RGBW (D)	3 - 3000K	1 - Default	1 - 10°	1 - 300mm (1ft)	1 - DMX/RDM	2 - ETL	0 - TX Signature Gray	1 - 1PXL/fixture	1 - Type 1		
			08 - 8W	E - RGBA (D)	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				7 - 40°	4 - 1200mm (4ft)			3 - White	4 - 4PXL/fixture			
							9 - 60°								
							A - 105°								
							B - 60°x10°								
							D - 60°x30°								

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

EXAMPLE LINEAR PLUS 60W RGBW30(D) 10° 1200 ETL 4PXL (CC)
Model Number: LI.PL.115231141204 1100

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

Project Model Number

CL.	PL.	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

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