traxon

Date: _____ Quantity: _____

Company: _____

Project: _____

Allegro Linear AC RGBW

The Allegro Linear AC RGBW family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in four lengths, from 320mm to 1215mm with 16.7 million additive RGB colors plus white, and various optics. The simplicity of the luminaire's topology means it can be easily daisy-chained to form long runs. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.

Product Specifications

CE IP66 Optional Accessories DynaMood®

	300	600	900	1200
Light Source	High power LEDs			
Color Range	RGBW (white CCT 3000K)			
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°			
Luminous Flux	778 lm	1539 lm	2280 lm	3132 lm
Efficacy	52 lm/W typ.			
Lumen Maintenance	L70 @25°C - 80,000hrs			
Cover Lens	Tempered glass cover			
Housing	Aluminium, powder coating			
Adjustment Options	±90 tilt			
Dimensions (L × W × H)	320 × 50 × 86mm 12.6" × 2.0" × 3.4"	615 × 50 × 86mm 24.2" × 2.0" × 3.4"	915 × 50 × 86mm 36" × 2.0" × 3.4"	1215 × 50 × 86mm 47.8" × 2.0" × 3.4"
Weight	2.0kg/4.4lb	3.3kg/7.3lb	4.0kg/8.8lb	5.5kg/12.1lb
Regulatory Listing & Safety Approval	CE, IEC 60598-2-3, 3G ANSI C136.31, IK07			
Operating Temperature	–30°C to +50°C/–22°F to +122°F (–20°C/–4°F starting)			
Storage Temperature	–40°C to +70°C/–40°F to +158°F			
Environment	Outdoor (IP66), suitable for coastal environments			
Humidity	85%, non-condensing			

Electrical Specifications

Input Voltage	220-240V AC			
Power Consumption	15W	28W	41W	55W
Power Factor	≥ 0.9			

System Specifications

Power	AC line
Control	DMX512; Remote Device Management (RDM); configurable for control in 300mm/1ft sections DynaMood®: BinOne · BoostOne · AddressOne
Power Supply	Built-in
Fixture Interconnection	Refer to System Diagram

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 complicate 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.

Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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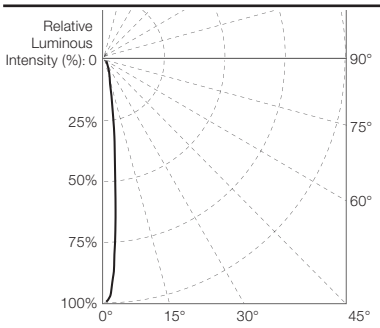
Allegro Linear AC RGBW

Photometrics

Source Specifications

Optics	10°

Candela Distribution

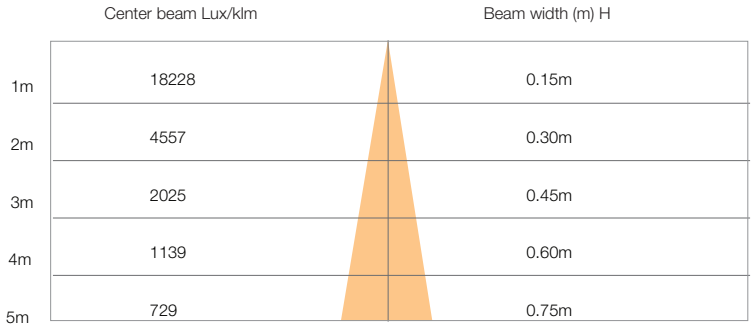


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
White 4000K (RGBW full-on)	812.99	14819.3	58.73
RGB	534.02	9734.2	51.59
Red	148.07	2699.04	28.35
Green	383.84	6996.7	57.07
Blue	5.63	102.625	1.7
White 3000K (RGB off)	279.03	5086.2	46.64
600			
White 4000K (RGBW full-on)	1584.09	28875	62.35
RGB	1040.52	18966.8	57.02
Red	288.51	5259.01	34.86
Green	747.9	13632.8	68.72
Blue	10.97	199.963	2.53
White 3000K (RGB off)	543.68	9910.28	54.98
900			
White 4000K (RGBW full-on)	2351.41	42861.9	63.23
RGB	1544.54	28154.1	59.13
Red	428.27	7806.57	38.72
Green	1110.17	20236.4	71.81
Blue	16.29	296.937	3.27
White 3000K (RGB off)	807.03	14710.7	59.6
1200			
White 4000K (RGBW full-on)	3274.53	59688.6	68.28
RGB	2150.9	39206.9	64.34
Red	596.4	10871.3	42.91
Green	1546	28180.7	79.16
Blue	22.68	413.415	3.9
White 3000K (RGB off)	1123.86	20485.9	65.45

Luminaire setting: White-balance mode.

Illuminance at a Distance



Horiz.Spread: 8.6°

For fc divide by 10.7

For feet multiply by 3.28

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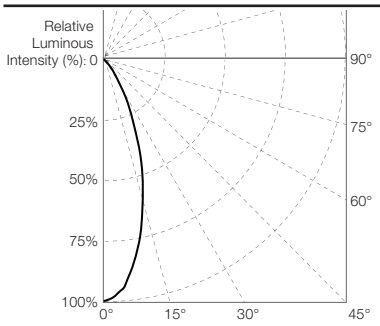
Allegro Linear AC RGBW

Photometrics

Source Specifications

Optics	40°

Candela Distribution

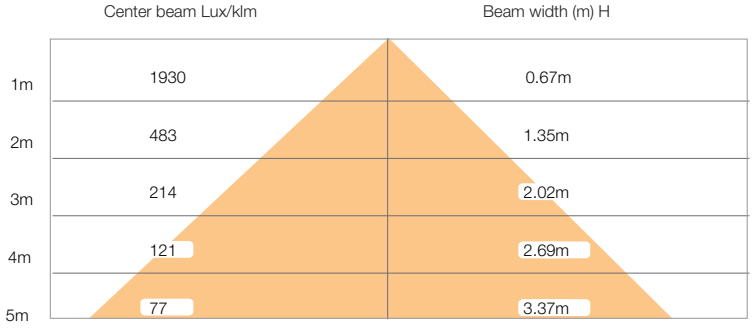


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
White 4000K (RGBW full-on)	857.1	1654.26	61.81
RGB	559.97	1080.78	53.89
Red	155.3	299.74	29.51
Green	402.39	776.643	59.42
Blue	5.79	11.1712	1.75
White 3000K (RGB off)	295.65	570.621	49.32
600			
White 4000K (RGBW full-on)	1694.01	28875	65.51
RGB	1106.75	18966.8	59.59
Red	306.94	5259.01	36.44
Green	795.3	13632.8	71.8
Blue	11.44	199.963	2.59
White 3000K (RGB off)	584.33	9910.28	58.06
900			
White 4000K (RGBW full-on)	2497.94	4821.19	67.46
RGB	1631.98	3149.83	62.75
Red	452.61	873.569	41.1
Green	1172.73	2263.45	76.18
Blue	16.87	32.5489	3.4
White 3000K (RGB off)	861.64	1663.01	63.91
1200			
White 4000K (RGBW full-on)	3501.18	6757.51	73.6
RGB	2287.43	4414.89	68.98
Red	634.39	1224.42	46.04
Green	1643.73	3172.52	84.86
Blue	23.64	45.6109	4.09
White 3000K (RGB off)	1207.7	2330.93	70.92

Luminaire setting: White-balance mode.

Illuminance at a Distance



Horiz.Spread: 37.2°

For fc divide by 10.7

For feet multiply by 3.28

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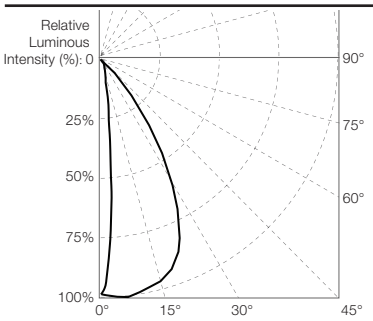
Allegro Linear AC RGBW

Photometrics

Source Specifications

Optics	60° x 10°

Candela Distribution

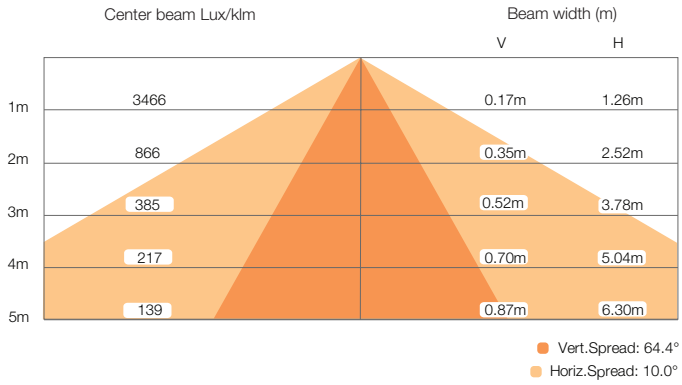


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
White 4000K (RGBW full-on)	777.82	2495.9	56.34
RGB	506.64	1625.72	48.96
Red	140.97	452.361	26.96
Green	363.89	1167.67	54.01
Blue	4.97	15.9547	1.51
White 3000K (RGB off)	264.75	849.541	44.38
600			
White 4000K (RGBW full-on)	1539.19	4939.01	59.93
RGB	1002.56	3217.04	54.34
Red	278.97	895.191	33.34
Green	720.09	2310.66	65.45
Blue	9.84	31.5883	2.24
White 3000K (RGB off)	523.9	1681.11	52.41
900			
White 4000K (RGBW full-on)	2280.42	7317.5	61.73
RGB	1485.37	4766.29	57.25
Red	413.31	1326.27	37.62
Green	1066.87	3423.43	69.47
Blue	14.58	46.8047	2.95
White 3000K (RGB off)	776.2	2490.7	57.71
1200			
White 4000K (RGBW full-on)	3132.34	10051.2	65.86
RGB	2040.26	6546.84	61.55
Red	567.71	1821.73	41.2
Green	1465.42	4702.32	75.65
Blue	20.02	64.2682	3.47
White 3000K (RGB off)	1066.17	3421.17	62.64

Luminaire setting: White-balance mode.

Illuminance at a Distance



For fc divide by 10.7

For feet multiply by 3.28

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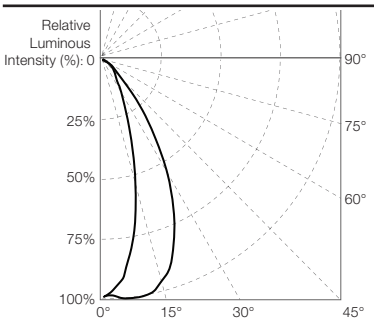
Allegro Linear AC RGBW

Photometrics

Source Specifications

Optics	60° x 30°

Candela Distribution

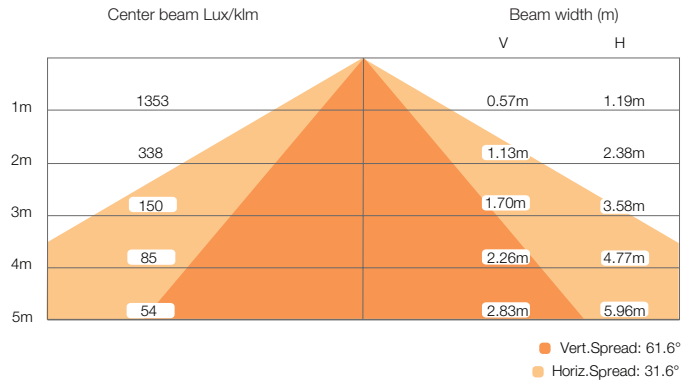


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
White 4000K (RGBW full-on)	724.83	980.679	52.48
RGB	472.22	638.91	45.64
Red	131.97	178.549	25.23
Green	338.56	458.068	50.25
Blue	4.82	6.51762	1.46
White 3000K (RGB off)	253.25	342.637	42.43
600			
White 4000K (RGBW full-on)	1451.68	1964.09	56.35
RGB	945.77	1279.61	53.1
Red	264.3	357.585	31.37
Green	678.07	917.421	61.39
Blue	9.65	13.0487	2.19
White 3000K (RGB off)	507.2	686.221	50.32
900			
White 4000K (RGBW full-on)	2145.83	2903.26	57.93
RGB	1398.01	1891.49	53.74
Red	390.68	528.571	35.47
Green	1002.3	1356.1	65.09
Blue	14.26	19.2824	2.88
White 3000K (RGB off)	749.73	1014.35	55.6
1200			
White 4000K (RGBW full-on)	2956.23	3999.71	62.09
RGB	1925.98	2605.84	58.05
Red	538.23	728.199	39.03
Green	1380.83	1868.25	71.21
Blue	19.65	26.5708	3.4
White 3000K (RGB off)	1032.87	1397.43	60.61

Luminaire setting: White-balance mode.

Illuminance at a Distance



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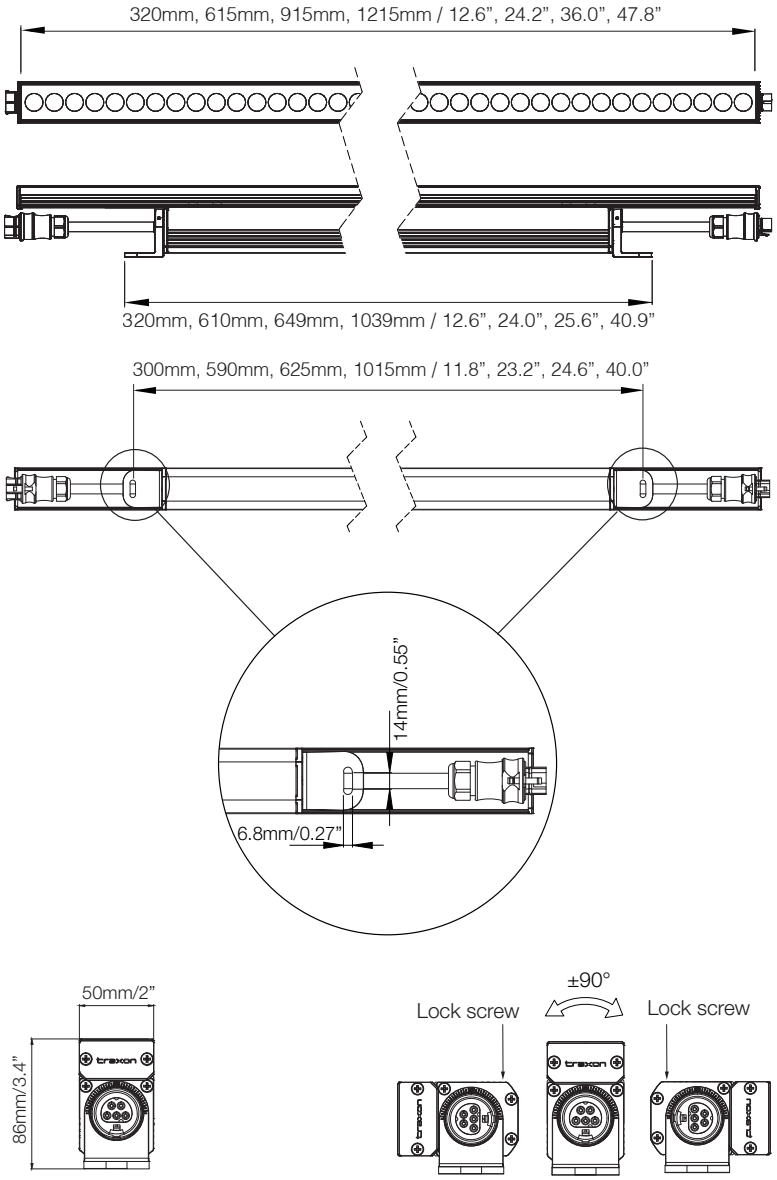

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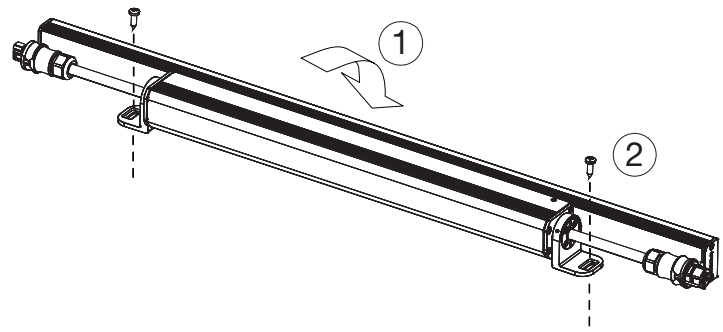

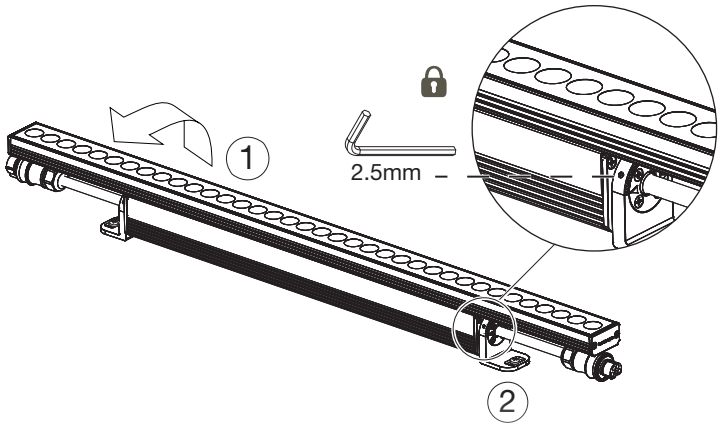

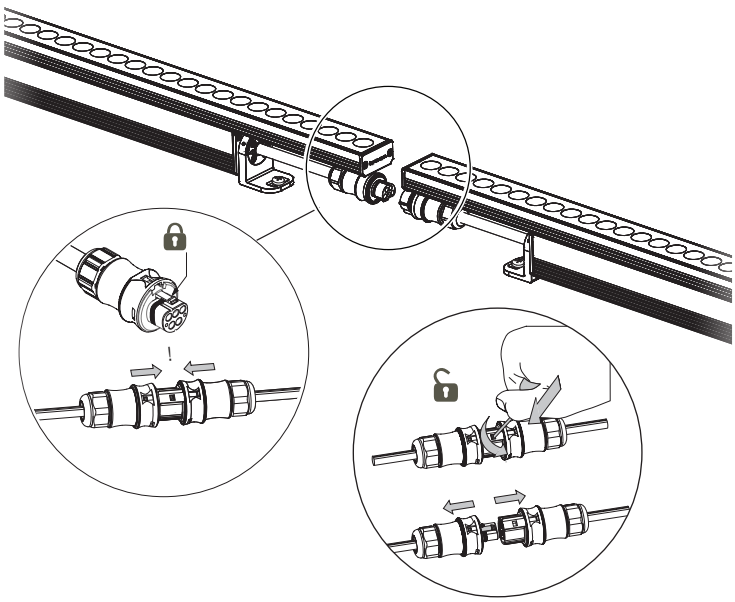

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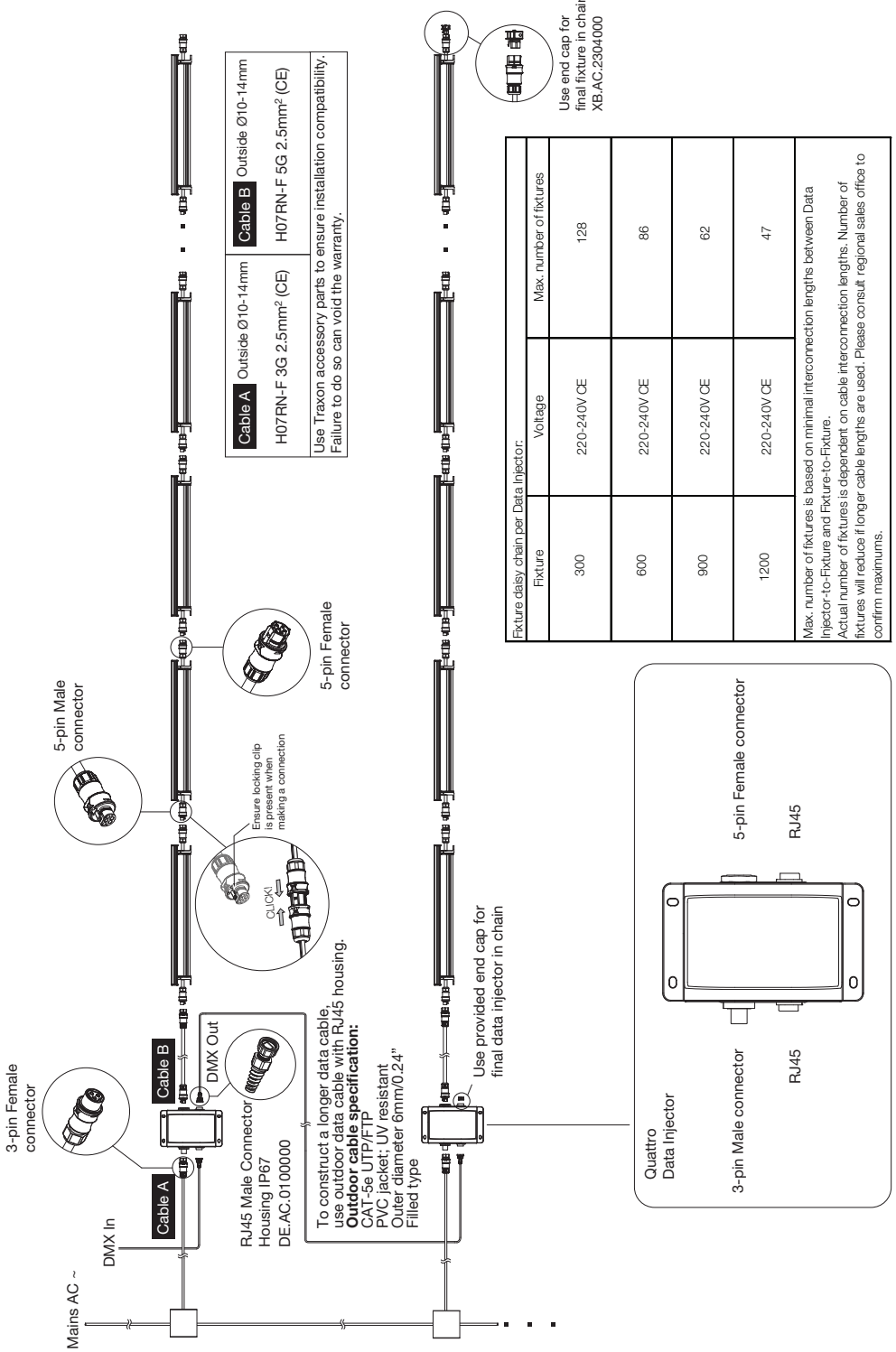
Allegro Linear AC RGBW

System Diagram



Fixture daisy chain per Data Injector:		
Fixture	Voltage	Max. number of fixtures
300	220-240V CE	128
600	220-240V CE	86
900	220-240V CE	62
1200	220-240V CE	47

Max. number of fixtures is based on minimal interconnection lengths between Data Injector-to-Fixture and Fixture-to-Fixture.
Actual number of fixtures is dependent on cable interconnection lengths. Number of fixtures will reduce if longer cable lengths are used. Please consult regional sales office to confirm maximums.

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Allegro Linear AC RGBW

Ordering

Luminaire Models

Model No.	Description	Item Code
XB.N4.8301120	ALLEGRO LINEAR AC 300mm RGBW 10deg CE 220-240V AC	AM322740055
XB.N4.8304120	ALLEGRO LINEAR AC 300mm RGBW 60X10deg CE 220-240V AC	AM322090055
XB.N4.8307120	ALLEGRO LINEAR AC 300mm RGBW 60X30deg CE 220-240V AC	AM322650055
XB.N4.8306120	ALLEGRO LINEAR AC 300mm RGBW 40deg CE 220-240V AC	AM322830055
XB.N5.8301120	ALLEGRO LINEAR AC 600mm RGBW 10deg CE 220-240V AC	AM322760055
XB.N5.8304120	ALLEGRO LINEAR AC 600mm RGBW 60X10deg CE 220-240V AC	AM322480055
XB.N5.8307120	ALLEGRO LINEAR AC 600mm RGBW 60X30deg CE 220-240V AC	AM322660055
XB.N5.8306120	ALLEGRO LINEAR AC 600mm RGBW 40deg CE 220-240V AC	AM322840055
XB.N6.8301120	ALLEGRO LINEAR AC 900mm RGBW 10deg CE 220-240V AC	AM322770055
XB.N6.8304120	ALLEGRO LINEAR AC 900mm RGBW 60X10deg CE 220-240V AC	AM322490055
XB.N6.8307120	ALLEGRO LINEAR AC 900mm RGBW 60X30deg CE 220-240V AC	AM322670055
XB.N6.8306120	ALLEGRO LINEAR AC 900mm RGBW 40deg CE 220-240V AC	AM322850055
XB.N7.8301120	ALLEGRO LINEAR AC 1200mm RGBW 10deg CE 220-240V AC	AM322780055
XB.N7.8304120	ALLEGRO LINEAR AC 1200mm RGBW 60X10deg CE 220-240V AC	AM322500055
XB.N7.8307120	ALLEGRO LINEAR AC 1200mm RGBW 60X30deg CE 220-240V AC	AM322680055
XB.N7.8306120	ALLEGRO LINEAR AC 1200mm RGBW 40deg CE 220-240V AC	AM322860055

Accessories

Model No.	Description	Item Code
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR 100-277V ETL/CE	AB389160055
XE.ID.0204000	AC XB Interconnection Cable, 5-wire, 2.5mm2, CE (2m)	AB389130055
XE.ID.0074000	AC XB Interconnection Cable, 5-wire, 2.5mm2, CE (0.7m)	AB389100055
XE.IF.0104000	AC XB Power Cable, 3-wire, 2.5mm2, CE (1m)	AB389060055
XB.AC.4006000	3-pin Field Installable AC Connector Socket IP66	AB389040035
XB.AC.2302000	5-pin Field Installable AC Connector Plug IP66	AA438580235
XB.AC.2303000	5-pin Field Installable AC Connector Socket IP66	AA438570235
XB.AC.2304000	5-pin Connector Socket End Cap IP66	AA508870335

traxon e:cue
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