



TRAXON

Date: _____ Quantity: _____
Company: _____
Project: _____



Allegro Linear 2.1 AC RGBW

The Allegro Linear 2.1 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. This product is intended for use in high-quality colored light applications.

Product Specifications



	300	600	900	1200
Light Source	Osram Oslon, separate LEDs			
Color Range	RGBW (White CCT: 3000K standard)			
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° - 81,000h			
Cover Lens	Tempered glass cover			
Housing	Extruded Aluminum , Powder coating			
Adjustment Options	±90 tilt			
Mounting	Low Profile Mounting Brackets (bracket x 2 per length)			
Dimensions (L x W x H)	320 x 50 x 86mm 12.6" x 2.0" x 3.4"	615 x 50 x 86mm 24.2" x 2.0" x 3.4"	915 x 50 x 86mm 36" x 2.0" x 3.4"	1215 x 50 x 86mm 47.8" x 2.0" x 3.4"
Weight	1.8kg / 3.97lb	3.06kg/4.03lb	3.6kg/7.93lb	5.02kg/11.07lb
Regulatory Listing & Safety Approval	cETLus, CE, FCC, RoHS, ASTM B117-16, ErP, ANSI C136.31 3G, 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			
Minimum Starting Temperature	-20°C / -4° 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	Integrated
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.

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.



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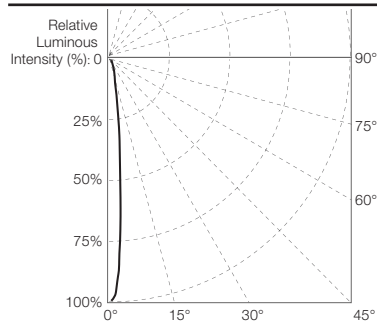
Allegro Linear 2.1 AC RGBW

Photometrics

Source Specifications

Optics 10°

Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
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			
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			
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			
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

	Center beam Lux/klm	Beam width (m) H
1m	18228	0.15m
2m	4557	0.30m
3m	2025	0.45m
4m	1139	0.60m
5m	729	0.75m

● Horiz.Spread: 8.6°

For fc divide by 10.7

For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.



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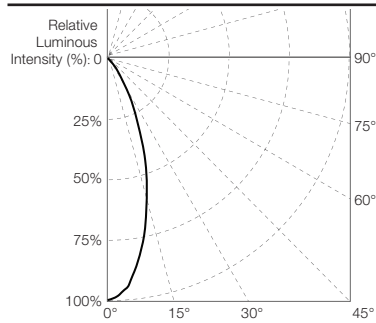
Allegro Linear 2.1 AC RGBW

Photometrics

Source Specifications

Optics 40°

Candela Distribution

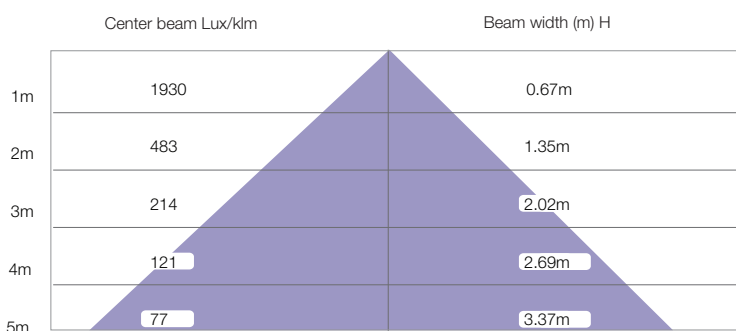


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
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			
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			
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			
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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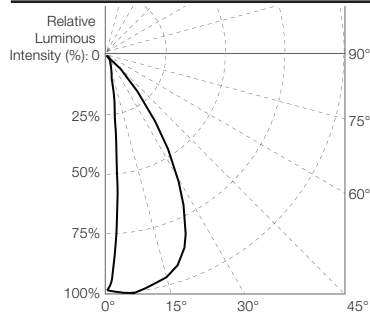
Allegro Linear 2.1 AC RGBW

Photometrics

Source Specifications

Optics 60° x 10°

Candela Distribution

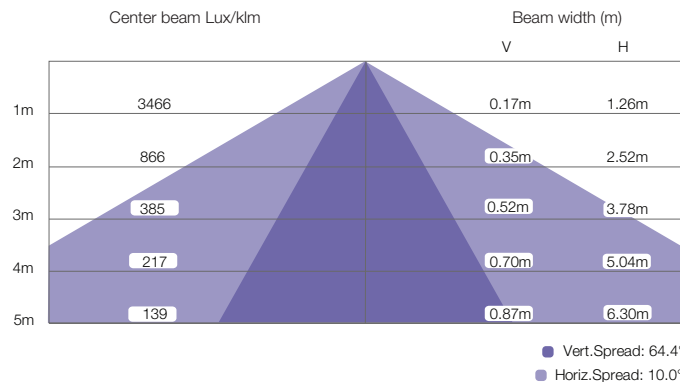


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
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			
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			
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			
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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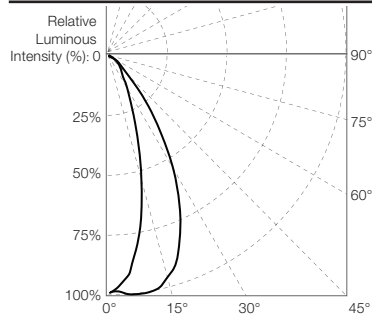
Allegro Linear 2.1 AC RGBW

Photometrics

Source Specifications

Optics 60° x 30°

Candela Distribution

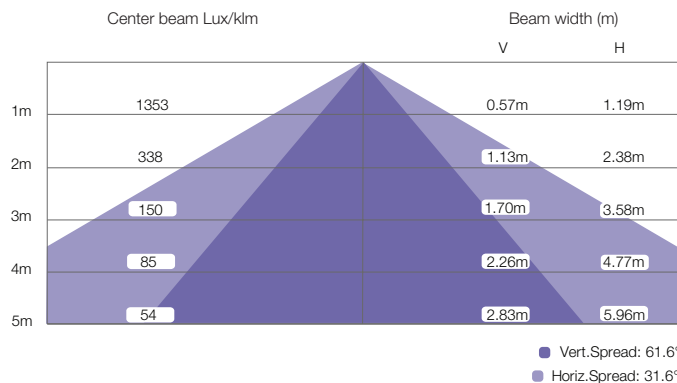


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
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			
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			
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			
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



For fc divide by 10.7

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For feet multiply by 3.28



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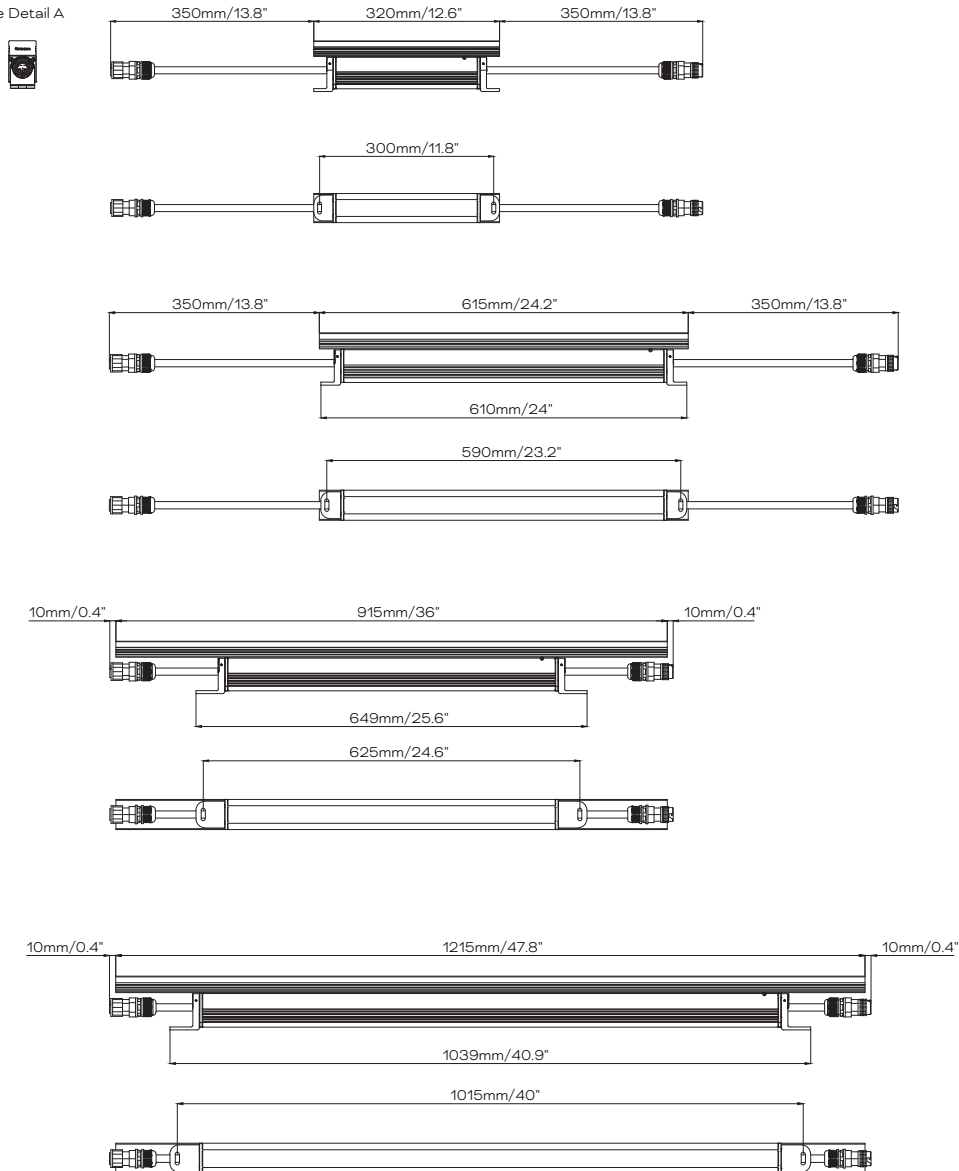


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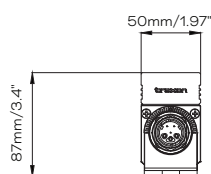
Allegro Linear 2.1 AC RGBW

Dimensions

See Detail A



Detail A



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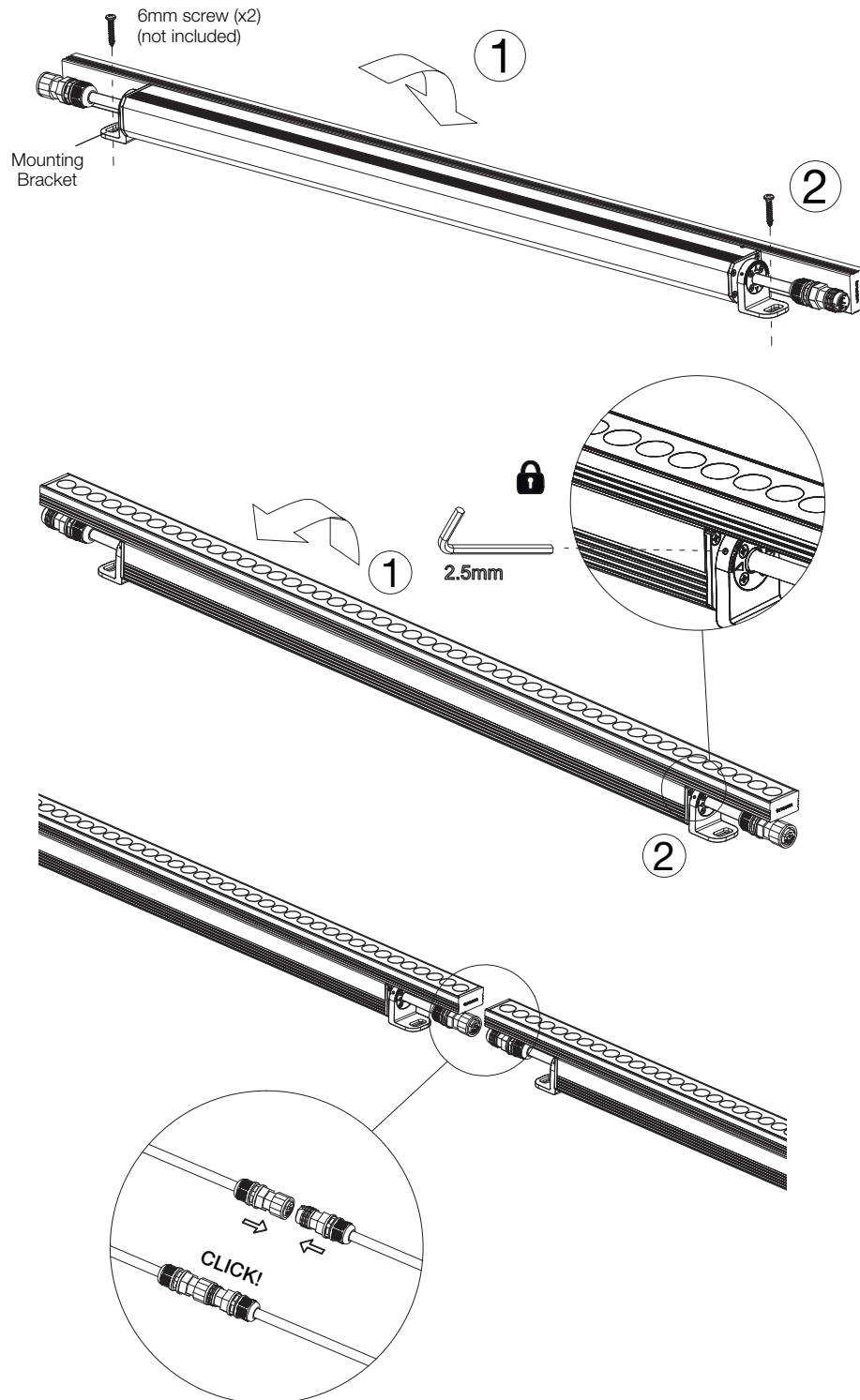
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Allegro Linear 2.1 AC RGBW

Mounting



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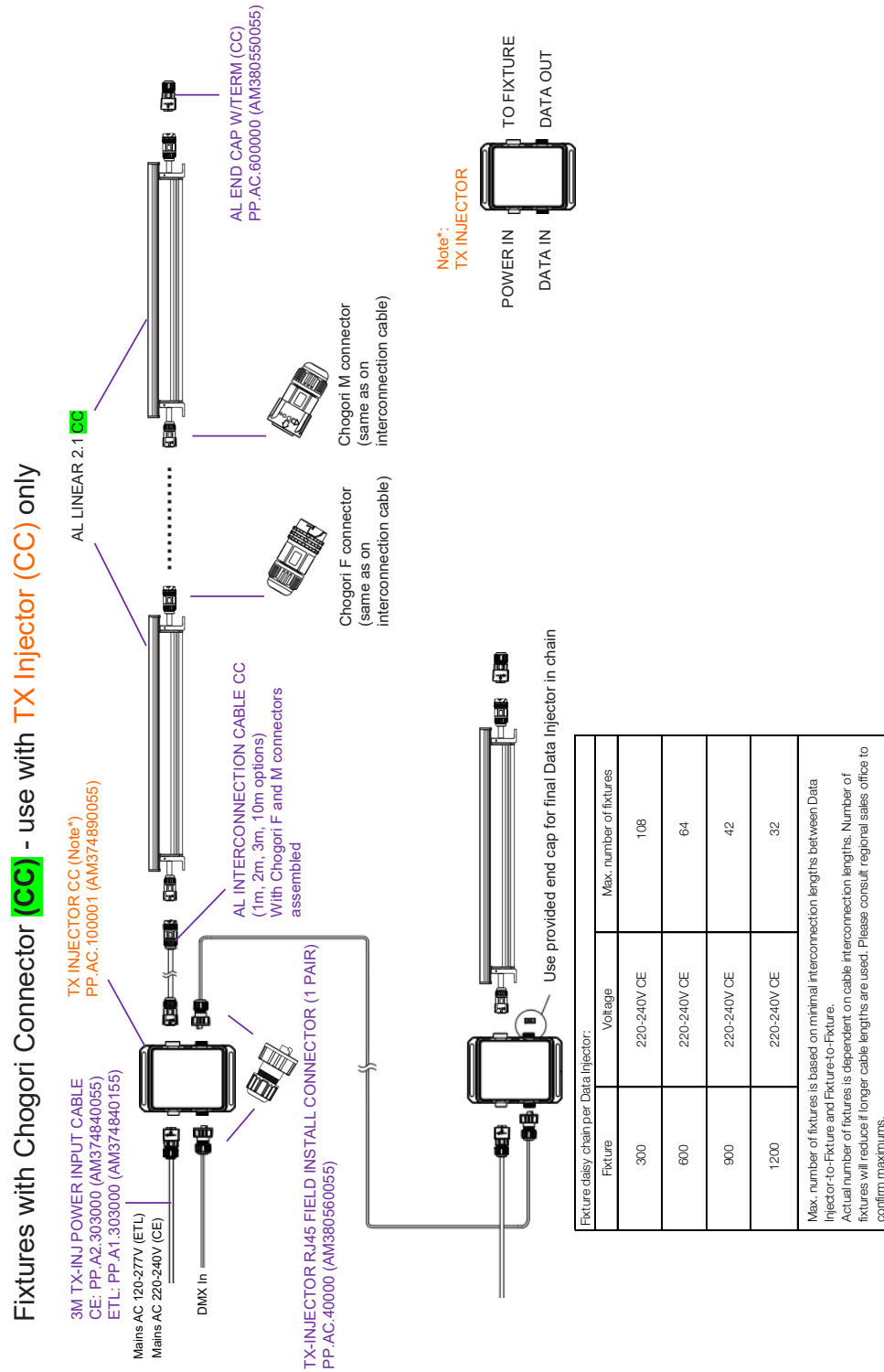
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Product Specification

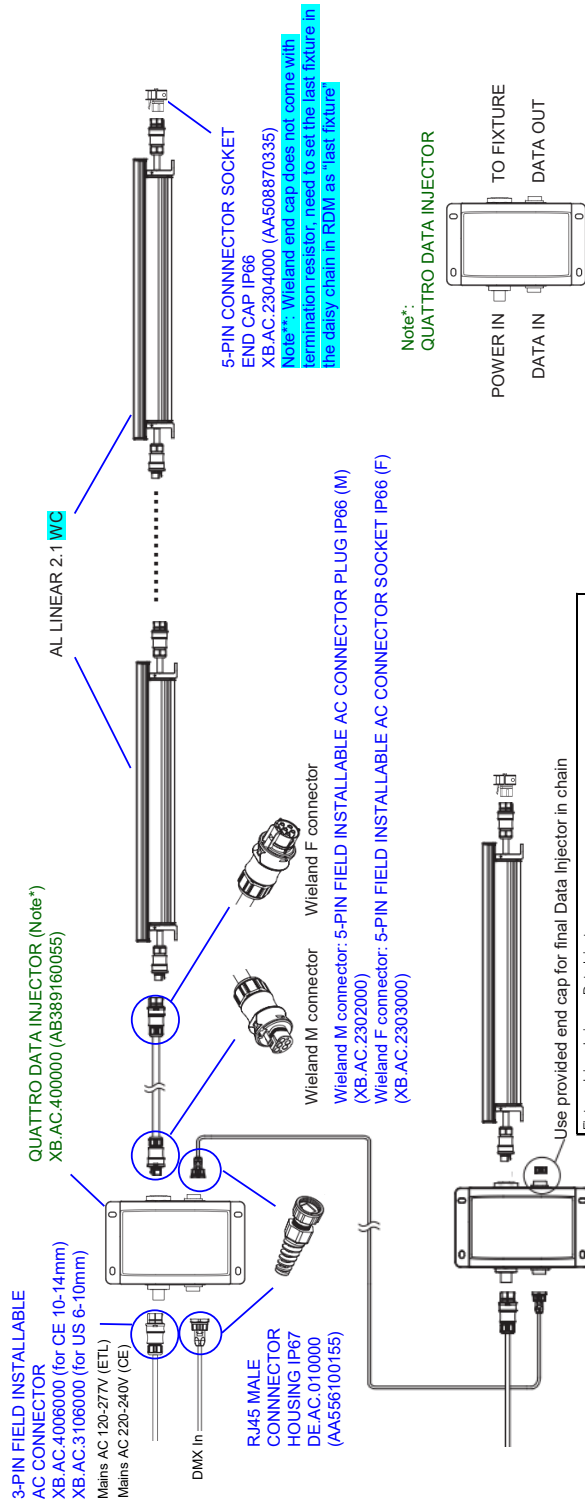
V1.0 08/23

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Fixtures with Wieland Connector (WC) – use with Quattro Data Injector:



Fixture daisy chain per Data Injector:		
Fixture	Voltage	Max. number of fixtures
300	220-240V CE	108
600	220-240V CE	64
900	220-240V CE	42
1200	220-240V CE	32
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 2.1 AC RGBW

Ordering

Luminaire Models(CC)

Model No.	Description	Item Code
XB.AL.111316000	ALLEGRO LINEAR 2.1 300mm RGBW 10deg CE 220-240V AC (CC)	AM469570055
XB.AL.111376000	ALLEGRO LINEAR 2.1 300mm RGBW 60X10deg CE 220-240V AC (CC)	AM469580055
XB.AL.111386000	ALLEGRO LINEAR 2.1 300mm RGBW 60X30deg CE 220-240V AC (CC)	AM469590055
XB.AL.111346000	ALLEGRO LINEAR 2.1 300mm RGBW 40deg CE 220-240V AC (CC)	AM469600055
XB.AL.111396000	ALLEGRO LINEAR 2.1 300mm RGBW 105deg CE 220-240V AC (CC)	AM469610055
XB.AL.211316000	ALLEGRO LINEAR 2.1 600mm RGBW 10deg CE 220-240V AC (CC)	AM469620055
XB.AL.211376000	ALLEGRO LINEAR 2.1 600mm RGBW 60X10deg CE 220-240V AC (CC)	AM469630055
XB.AL.211386000	ALLEGRO LINEAR 2.1 600mm RGBW 60x30deg CE 220-240V AC (CC)	AM469640055
XB.AL.211346000	ALLEGRO LINEAR 2.1 600mm RGBW 40deg CE 220-240V AC (CC)	AM469650055
XB.AL.211396000	ALLEGRO LINEAR 2.1 600mm RGBW 105deg CE 220-240V AC (CC)	AM469660055
XB.AL.311316000	ALLEGRO LINEAR 2.1 900mm RGBW 10deg CE 220-240V AC (CC)	AM469670055
XB.AL.311376000	ALLEGRO LINEAR 2.1 900mm RGBW 60X10deg CE 220-240V AC (CC)	AM469680055
XB.AL.311386000	ALLEGRO LINEAR 2.1 900mm RGBW 60x30deg CE 220-240V AC (CC)	AM469690055
XB.AL.311346000	ALLEGRO LINEAR 2.1 900mm RGBW 40deg CE 220-240V AC (CC)	AM469700055
XB.AL.311396000	ALLEGRO LINEAR 2.1 900mm RGBW 105deg CE 220-240V AC (CC)	AM469710055
XB.AL.411316000	ALLEGRO LINEAR 2.1 1200mm RGBW 10deg CE 220-240V AC (CC)	AM469720055
XB.AL.411376000	ALLEGRO LINEAR 2.1 1200mm RGBW 60X10deg CE 220-240V AC (CC)	AM469730055
XB.AL.411386000	ALLEGRO LINEAR 2.1 1200mm RGBW 60x30deg CE 220-240V AC (CC)	AM469740055
XB.AL.411346000	ALLEGRO LINEAR 2.1 1200mm RGBW 40deg CE 220-240V AC (CC)	AM469750055
XB.AL.411396000	ALLEGRO LINEAR 2.1 1200mm RGBW 105deg CE 220-240V AC (CC)	AM469760055

Luminaire Models(WC)

Model No.	Description	Item Code
XB.AL.111316001	ALLEGRO LINEAR 2.1 300mm RGBW 10deg CE 220-240V AC (WC)	AM470970055
XB.AL.111376001	ALLEGRO LINEAR 2.1 300mm RGBW 60X10deg CE 220-240V AC (WC)	AM470980055
XB.AL.111386001	ALLEGRO LINEAR 2.1 300mm RGBW 60X30deg CE 220-240V AC (WC)	AM470990055
XB.AL.111346001	ALLEGRO LINEAR 2.1 300mm RGBW 40deg CE 220-240V AC (WC)	AM471000055
XB.AL.111396001	ALLEGRO LINEAR 2.1 300mm RGBW 105deg CE 220-240V AC (WC)	AM471010055
XB.AL.211316001	ALLEGRO LINEAR 2.1 600mm RGBW 10deg CE 220-240V AC (WC)	AM471020055
XB.AL.211376001	ALLEGRO LINEAR 2.1 600mm RGBW 60X10deg CE 220-240V AC (WC)	AM471030055
XB.AL.211386001	ALLEGRO LINEAR 2.1 600mm RGBW 60x30deg CE 220-240V AC (WC)	AM471040055
XB.AL.211346001	ALLEGRO LINEAR 2.1 600mm RGBW 40deg CE 220-240V AC (WC)	AM471050055
XB.AL.211396001	ALLEGRO LINEAR 2.1 600mm RGBW 105deg CE 220-240V AC (WC)	AM471060055
XB.AL.311316001	ALLEGRO LINEAR 2.1 900mm RGBW 10deg CE 220-240V AC (WC)	AM471070055
XB.AL.311376001	ALLEGRO LINEAR 2.1 900mm RGBW 60X10deg CE 220-240V AC (WC)	AM471080055
XB.AL.311386001	ALLEGRO LINEAR 2.1 900mm RGBW 60x30deg CE 220-240V AC (WC)	AM471090055
XB.AL.311346001	ALLEGRO LINEAR 2.1 900mm RGBW 40deg CE 220-240V AC (WC)	AM471100055
XB.AL.311396001	ALLEGRO LINEAR 2.1 900mm RGBW 105deg CE 220-240V AC (WC)	AM471110055
XB.AL.411316001	ALLEGRO LINEAR 2.1 1200mm RGBW 10deg CE 220-240V AC (WC)	AM471120055
XB.AL.411376001	ALLEGRO LINEAR 2.1 1200mm RGBW 60X10deg CE 220-240V AC (WC)	AM471130055
XB.AL.411386001	ALLEGRO LINEAR 2.1 1200mm RGBW 60x30deg CE 220-240V AC (WC)	AM471140055
XB.AL.411346001	ALLEGRO LINEAR 2.1 1200mm RGBW 40deg CE 220-240V AC (WC)	AM471150055
XB.AL.411396001	ALLEGRO LINEAR 2.1 1200mm RGBW 105deg CE 220-240V AC (WC)	AM471160055



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Allegro Linear 2.1 AC RGBW

Ordering

Accessories

Model No.	Description	Item Code
PP.AC.100001	TX INJECTOR (CC) GRAY	AM374890055
PP.AC.100002	TX INJECTOR (CC) BLACK	AM374900055
PP.AC.100003	TX INJECTOR (CC) WHITE	AM374910055
PP.AC.400000	TX INJECTOR RJ45 FIELD INSTALL CONNECTORS (PAIR)	AM380560055
PP.A2.303000	3M TX-INJECTOR (CC) POWER INPUT CABLE CE	AM374840055
XE.IG.000020	CC-TO-WC CONVERSION CABLE CE	AM473680055
XE.IG.0100000	1M AL INTERCONNECTION CABLE CC CE (2.5mm ²)	AM473670055
XE.IG.0200000	2M AL INTERCONNECTION CABLE CC CE (2.5mm ²)	AM473660055
XE.IG.0300000	3M AL INTERCONNECTION CABLE CC CE (2.5mm ²)	AM473650055
XE.IG.1000000	10M AL INTERCONNECTION CABLE CC CE (2.5mm ²)	AM473640055
PP.AC.600000	AL END CAP W/ TERMINATOR (CC)	AM380550055
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR	AB389160055
XB.AC.4006000	3-PIN FIELD INSTALLABLE AC CONNECTOR SOCKET IP66	AB389040035
XB.AC.2302000	5-PIN FIELD INSTALLABLE AC CONNECTOR PLUG	AA438580235
XB.AC.2303000	5-PIN FIELD INSTALLABLE AC CONNECTOR SOCKET IP66	AA438570235
XB.AC.2304000	5-PIN CONNECTOR SOCKET END CAP IP66	AA508870335



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