



TRAXON

Date: _____ Quantity: _____

Company: _____

Project: _____



Allegro Linear 2.1 AC RGB

The Allegro Linear 2.1 AC RGB 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



DynaMood®

	300	600	900	1200
Light Source	Osram Oslon, separate LEDs			
Color Range	RGB			
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°			
Luminous Flux	622 lm	1204 lm	1792 lm	2389 lm
Efficacy	40 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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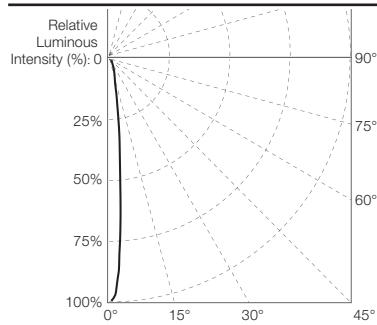
Allegro Linear 2.1 AC RGB

Photometrics

Source Specifications

Optics 10°

Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGB (full-on)	654.75	11934.9	47.25
Red	147.29	2684.82	28.17
Green	495.58	9033.51	52.73
Blue	13.13	239.336	3.1
600			
RGB (full-on)	1235.58	22522.3	48.96
Red	277.95	5066.52	33.88
Green	935.2	17047	57.37
Blue	24.77	451.511	4.07
900			
RGB (full-on)	1816.69	33114.9	49.08
Red	408.67	7449.3	37.52
Green	1375.04	25064.4	58.59
Blue	36.42	663.869	4.65
1200			
RGB (full-on)	2511.23	45775.1	53.02
Red	564.91	10297.3	41.81
Green	1900.74	34647	65.32
Blue	50.35	917.788	5.39

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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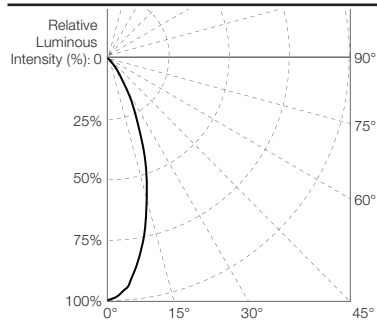
Allegro Linear 2.1 AC RGB

Photometrics

Source Specifications

Optics 40°

Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGB (full-on)	691.39	1334.43	50.21
Red	153.17	295.629	29.39
Green	531.86	1026.53	56.71
Blue	13.26	25.5892	3.12
600			
RGB (full-on)	1321.31	2550.21	51.65
Red	292.72	564.97	35.2
Green	1016.43	1961.78	61.52
Blue	25.34	48.9012	4.11
900			
RGB (full-on)	1929.9	3724.83	52.07
Red	427.55	825.201	39.21
Green	1484.59	2865.37	63.17
Blue	37.01	71.422	4.72
1200			
RGB (full-on)	2663.3	5140.35	56.28
Red	590.02	1138.78	43.71
Green	2048.77	3954.28	70.45
Blue	51.07	98.5551	5.47

Luminaire setting: White-balance mode.

Illuminance at a Distance

	Center beam Lux/klm	Beam width (m) H
1m	1930	0.67m
2m	483	1.35m
3m	214	2.02m
4m	121	2.69m
5m	77	3.37m

■ Horiz.Spread: 37.2°

For fc divide by 10.7

For feet multiply by 3.28

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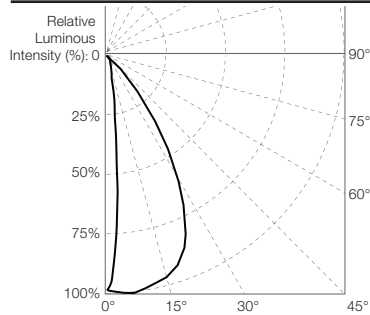
Allegro Linear 2.1 AC RGB

Photometrics

Source Specifications

Optics 60° x 10°

Candela Distribution

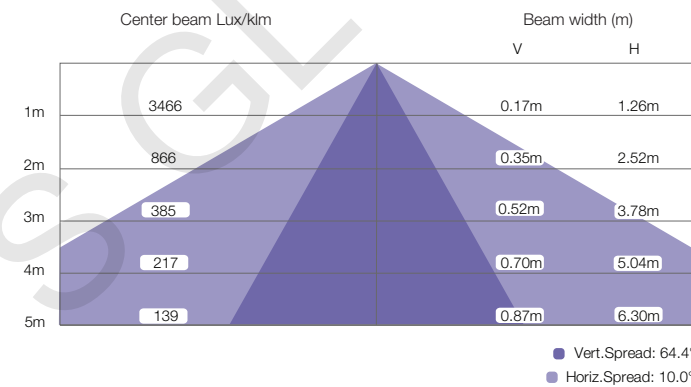


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGB (full-on)	621.9	1995.56	45
Red	139.14	446.47	26.71
Green	474.37	1522.16	50.85
Blue	12.07	38.736	2.85
600			
RGB (full-on)	1204.07	3863.63	47.16
Red	269.39	864.413	31.14
Green	918.43	2947.06	53.42
Blue	23.37	75.0008	3.64
900			
RGB (full-on)	1761.847	5654	47.14
Red	394.1801	1264	35.85
Green	1343.886	4312	56.71
Blue	34.19931	110	4.32
1200			
RGB (full-on)	2388.72	7664.95	50.42
Red	534.43	1714.87	39.56
Green	1822.05	5846.6	62.59
Blue	46.37	148.814	4.95

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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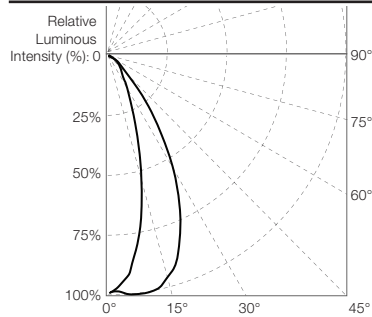
Allegro Linear 2.1 AC RGB

Photometrics

Source Specifications

Optics 60° x 30°

Candela Distribution

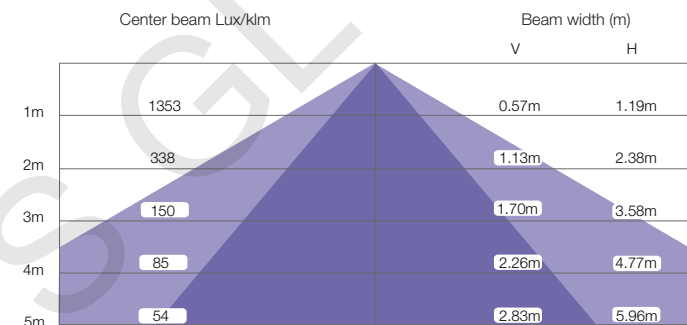


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGB (full-on)	577.62	781.502	42.08
Red	131.24	177.571	25.09
Green	442.77	572.001	47.11
Blue	9.66	13.0639	2.27
600			
RGB (full-on)	1115.05	1508.62	42.94
Red	253.36	342.802	29.61
Green	858.59	1161.65	50.51
Blue	18.64	25.2081	2.94
900			
RGB (full-on)	1657.86	2243.03	44.3
Red	376.69	509.67	34.21
Green	1276.55	1727.15	53.8
Blue	27.71	37.4741	3.5
1200			
RGB (full-on)	2249.17	3043.06	47.45
Red	511.05	691.463	37.8
Green	1731.86	2343.18	59.45
Blue	37.6	50.8491	4.02

Luminaire setting: White-balance mode.

Illuminance at a Distance



- Vert. Spread: 61.6°
- Horiz. Spread: 31.6°

For fc divide by 10.7

For feet multiply by 3.28

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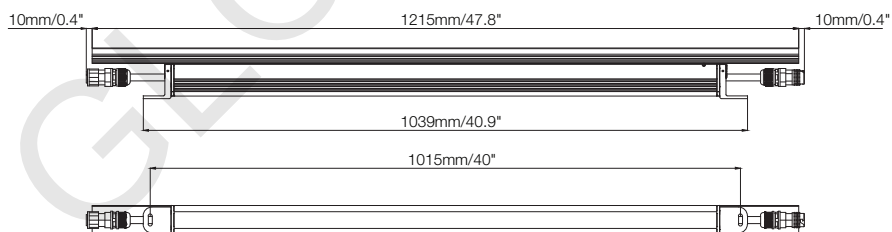
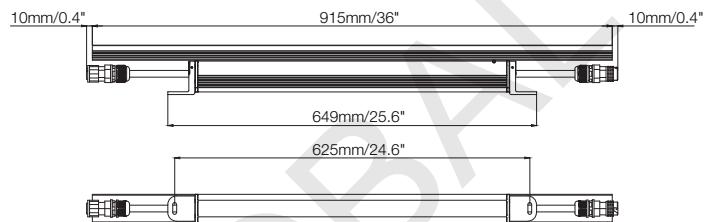
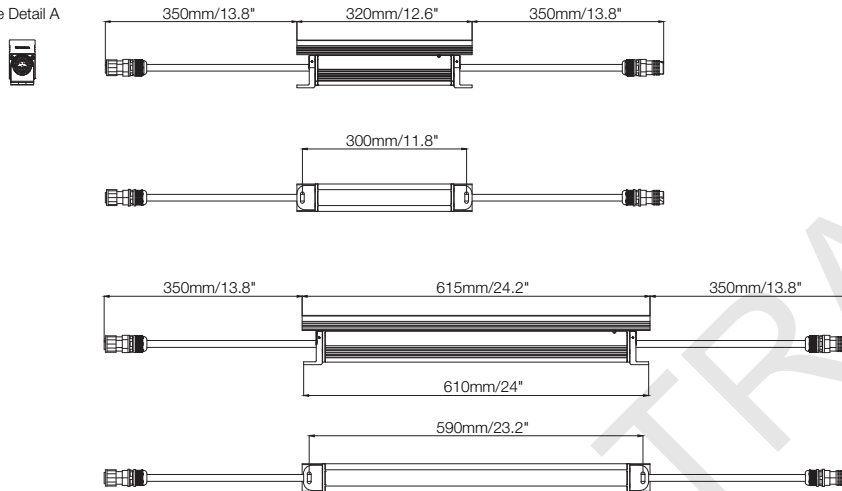


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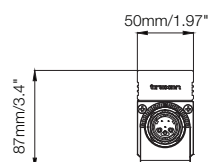
Allegro Linear 2.1 AC RGB

Dimensions

See Detail A



Detail A



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Product Specification

V1.0 08/23

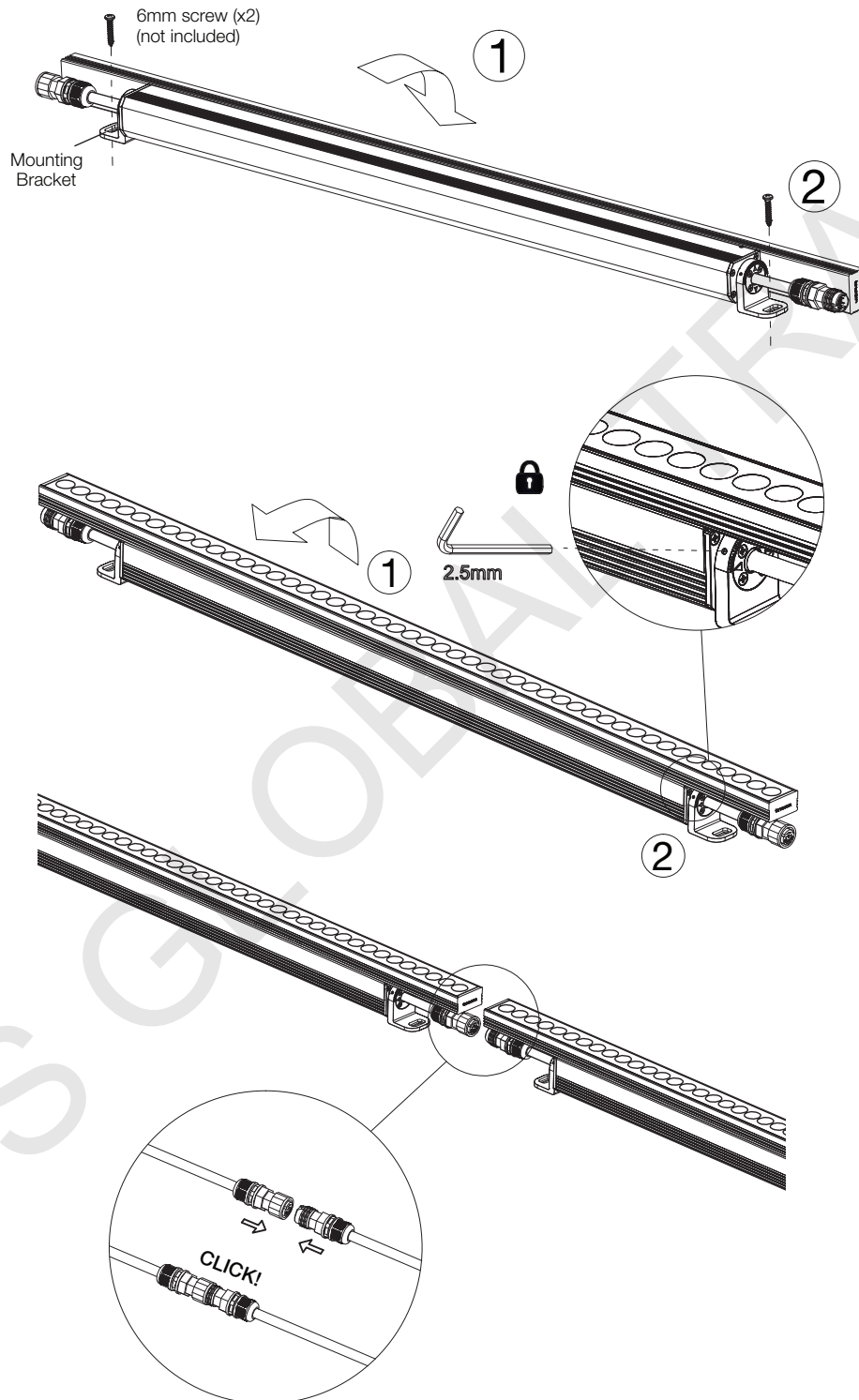
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Allegro Linear 2.1 AC RGB

Mounting

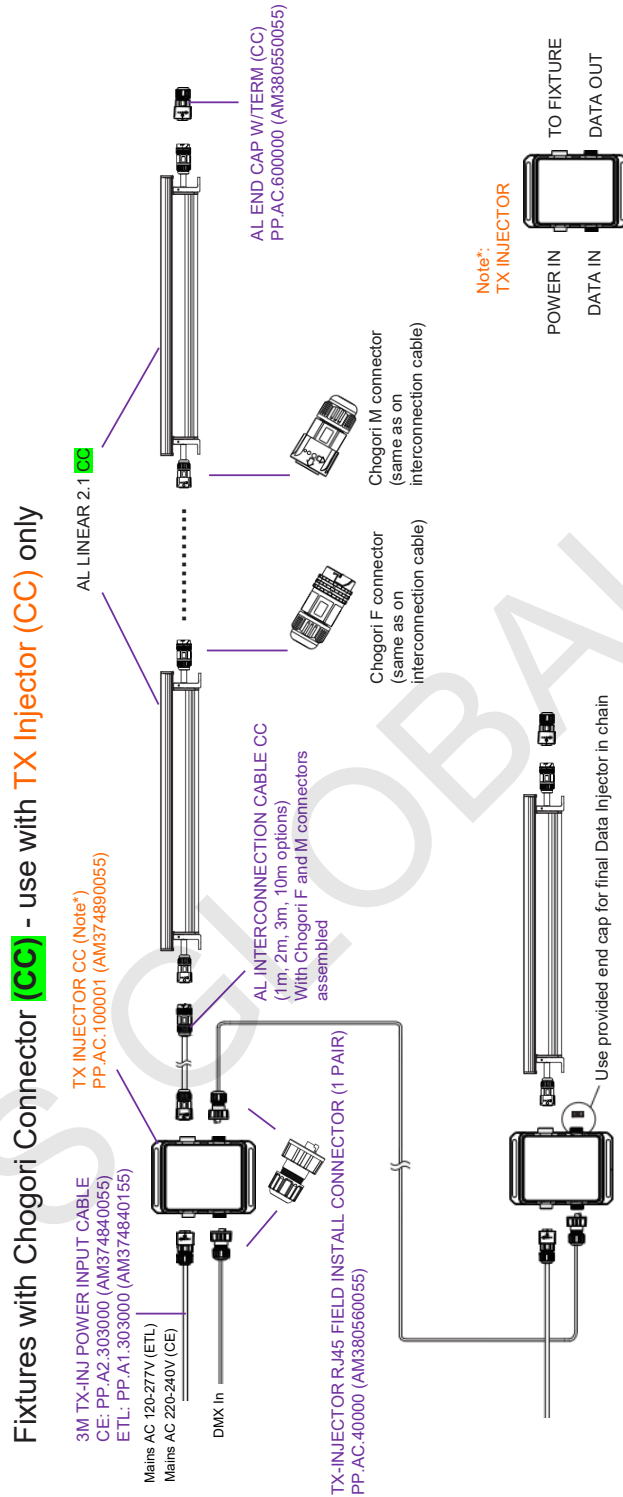




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Allegro Linear 2.1 AC RGB

System Diagram



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.		

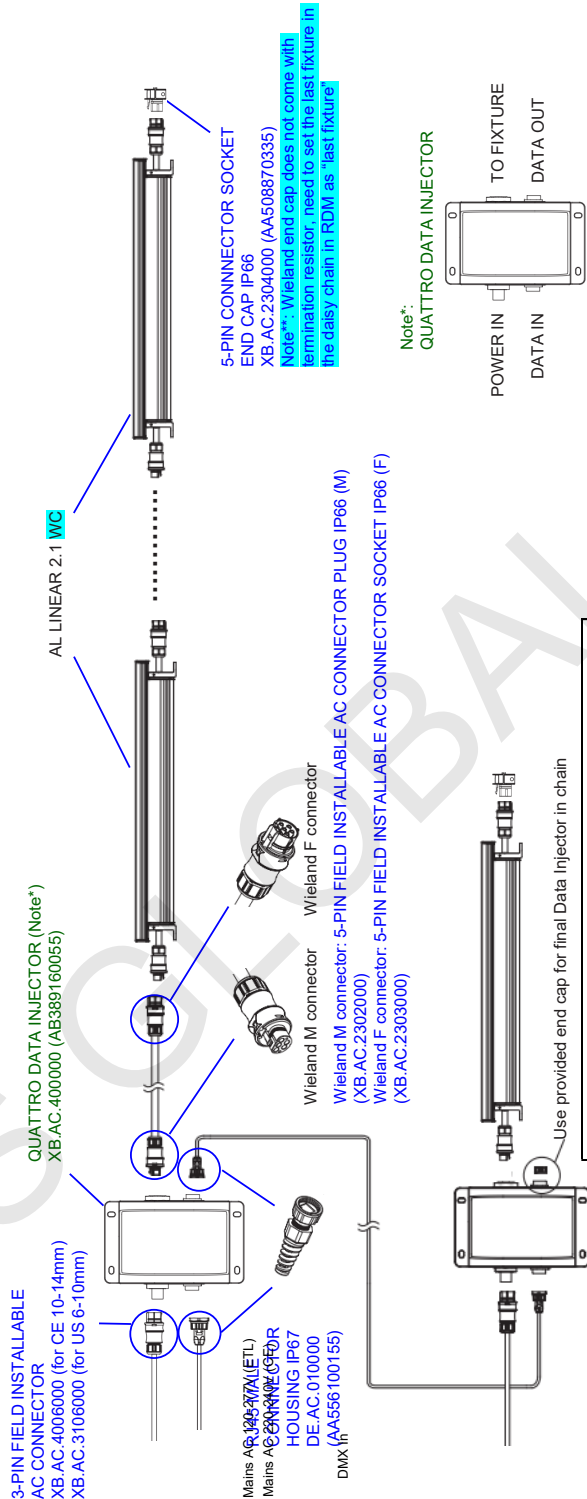


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Allegro Linear 2.1 AC RGB

System Diagram

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 RGB

Ordering

Luminaire Models(CC)

Model No.	Description	Item Code
XB.AL.112016000	ALLEGRO LINEAR 2.1 300mm RGB 10deg CE 220-240V AC (CC)	AM469770055
XB.AL.112076000	ALLEGRO LINEAR 2.1 300mm RGB 60X10deg CE 220-240V AC (CC)	AM469780055
XB.AL.112086000	ALLEGRO LINEAR 2.1 300mm RGB 60X30deg CE 220-240V AC (CC)	AM469790055
XB.AL.112046000	ALLEGRO LINEAR 2.1 300mm RGB 40deg CE 220-240V AC (CC)	AM469800055
XB.AL.112096000	ALLEGRO LINEAR 2.1 300mm RGB 105deg CE 220-240V AC (CC)	AM469810055
XB.AL.212016000	ALLEGRO LINEAR 2.1 600mm RGB 10deg CE 220-240V AC (CC)	AM469820055
XB.AL.212076000	ALLEGRO LINEAR 2.1 600mm RGB 60X10deg CE 220-240V AC (CC)	AM469830055
XB.AL.212086000	ALLEGRO LINEAR 2.1 600mm RGB 60x30deg CE 220-240V AC (CC)	AM469840055
XB.AL.212046000	ALLEGRO LINEAR 2.1 600mm RGB 40deg CE 220-240V AC (CC)	AM469850055
XB.AL.212096000	ALLEGRO LINEAR 2.1 600mm RGB 105deg CE 220-240V AC (CC)	AM469860055
XB.AL.312016000	ALLEGRO LINEAR 2.1 900mm RGB 10deg CE 220-240V AC (CC)	AM469870055
XB.AL.312076000	ALLEGRO LINEAR 2.1 900mm RGB 60X10deg CE 220-240V AC (CC)	AM469880055
XB.AL.312086000	ALLEGRO LINEAR 2.1 900mm RGB 60x30deg CE 220-240V AC (CC)	AM469890055
XB.AL.312046000	ALLEGRO LINEAR 2.1 900mm RGB 40deg CE 220-240V AC (CC)	AM469900055
XB.AL.312096000	ALLEGRO LINEAR 2.1 900mm RGB 105deg CE 220-240V AC (CC)	AM469910055
XB.AL.412016000	ALLEGRO LINEAR 2.1 1200mm RGB 10deg CE 220-240V AC (CC)	AM469920055
XB.AL.412076000	ALLEGRO LINEAR 2.1 1200mm RGB 60X10deg CE 220-240V AC (CC)	AM469930055
XB.AL.412086000	ALLEGRO LINEAR 2.1 1200mm RGB 60x30deg CE 220-240V AC (CC)	AM469940055
XB.AL.412046000	ALLEGRO LINEAR 2.1 1200mm RGB 40deg CE 220-240V AC (CC)	AM469950055
XB.AL.412096000	ALLEGRO LINEAR 2.1 1200mm RGB 105deg CE 220-240V AC (CC)	AM469960055

Luminaire Models(WC)

Model No.	Description	Item Code
XB.AL.112016001	ALLEGRO LINEAR 2.1 300mm RGB 10deg CE 220-240V AC (WC)	AM471170055
XB.AL.112076001	ALLEGRO LINEAR 2.1 300mm RGB 60X10deg CE 220-240V AC (WC)	AM471180055
XB.AL.112086001	ALLEGRO LINEAR 2.1 300mm RGB 60X30deg CE 220-240V AC (WC)	AM471190055
XB.AL.112046001	ALLEGRO LINEAR 2.1 300mm RGB 40deg CE 220-240V AC (WC)	AM471200055
XB.AL.112096001	ALLEGRO LINEAR 2.1 300mm RGB 105deg CE 220-240V AC (WC)	AM471210055
XB.AL.212016001	ALLEGRO LINEAR 2.1 600mm RGB 10deg CE 220-240V AC (WC)	AM471220055
XB.AL.212076001	ALLEGRO LINEAR 2.1 600mm RGB 60X10deg CE 220-240V AC (WC)	AM471230055
XB.AL.212086001	ALLEGRO LINEAR 2.1 600mm RGB 60x30deg CE 220-240V AC (WC)	AM471240055
XB.AL.212046001	ALLEGRO LINEAR 2.1 600mm RGB 40deg CE 220-240V AC (WC)	AM471250055
XB.AL.212096001	ALLEGRO LINEAR 2.1 600mm RGB 105deg CE 220-240V AC (WC)	AM471260055
XB.AL.312016001	ALLEGRO LINEAR 2.1 900mm RGB 10deg CE 220-240V AC (WC)	AM471270055
XB.AL.312076001	ALLEGRO LINEAR 2.1 900mm RGB 60X10deg CE 220-240V AC (WC)	AM471280055
XB.AL.312086001	ALLEGRO LINEAR 2.1 900mm RGB 60x30deg CE 220-240V AC (WC)	AM471290055
XB.AL.312046001	ALLEGRO LINEAR 2.1 900mm RGB 40deg CE 220-240V AC (WC)	AM471300055
XB.AL.312096001	ALLEGRO LINEAR 2.1 900mm RGB 105deg CE 220-240V AC (WC)	AM471310055
XB.AL.412016001	ALLEGRO LINEAR 2.1 1200mm RGB 10deg CE 220-240V AC (WC)	AM471320055
XB.AL.412076001	ALLEGRO LINEAR 2.1 1200mm RGB 60X10deg CE 220-240V AC (WC)	AM471330055
XB.AL.412086001	ALLEGRO LINEAR 2.1 1200mm RGB 60x30deg CE 220-240V AC (WC)	AM471340055
XB.AL.412046001	ALLEGRO LINEAR 2.1 1200mm RGB 40deg CE 220-240V AC (WC)	AM471350055
XB.AL.412096001	ALLEGRO LINEAR 2.1 1200mm RGB 105deg CE 220-240V AC (WC)	AM471360055



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Allegro Linear 2.1 AC RGB

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.0000020	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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