



Project:	
Type:	



Allegro Dot XS RGB

Allegro Dot XS is the newest and smallest member of the intelligent Allegro Dot family which enables longer chains of illuminated Dots. The Allegro Dot XS is ideal for outdoor media applications, where it can be integrated seamlessly into the facade, or it can be installed to float in the air with our highly transparent mounting options.

Each system is driven by the PXL Distributor Pro 8 (PDP8) which integrates power and data into one unit, reducing the space required for installation components. Each PDP8 can support up to eight Allegro Dot XS outputs with e:net IN

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

Product Specifications



1 Toddot opodinodatorio		
Models	RGB Clear	RGB Diffused
Number of Pixel	Max. 80 per string Max. 640 per system	
Light Source	High intensity 3-in-1 RGB	
Color Range	16.7 Million additive RGB colors	
Color Resolution	RGB: 3 x 12-bit (Gamma correction)	
CRI	>80 for White LED	
Luminous Flux ¹	7 lm	6 lm
Brightness ¹	2.5 cd	1.2 cd
Beam Angle	115°	175°
Cover Lens	Clear UV Stable PC	Diffused Dome UV Stable PC
LED Pitch	Standard 90mm / 3.5"; 50mm / 2" to 500mm /19.7" with 80	Dots
Housing	Polycarbonate	
Dimensions (W × L x H) ²	19mm x 41mm x 10.6mm / 0.7" x 1.6" x 0.4"	
Weight	$796g$ / $28\textsc{oz}$ full string; $9.5g$ / $0.33\textsc{oz}$ single dot with $90\textsc{mm}$ / 3.5° cable	824g / $29oz$ full string; $9.8g$ / $0.34oz$ single dot with $90mm$ / $3.5" cable$
Regulatory Listing & Safety Approval	CE, UKCA, cETLus, RoHS, REACH	
Operating Temperature	-25°C to + 55°C (Other than N. America) / -13°F to 122°F (N	N. America)
Storage Temperature	-40°C to + 70°C / -40°F to +158°F	
Environment	IP66 & 67 Outdoor Rated	
Humidity	0 to 90% non-condensing	

Electrical Specifications

<u> </u>	
Input Voltage Allegro Dot XS 30V DC; PXL Distributor Pro 8 120V-277V AC nominal	
Power Consumption (Typ.)	Allegro Dot XS RGB: 0.43W per Dot PXL Distributor Pro 8: 10W Full system: 400W

System Specifications

Power	AC line
Control	e:net ³ IN and OUT via PXL Distributor Pro 8
Power Supply	Integrated 450W; Isolated outputs for Class2 Compliance
Addressing Options	Auto-addressing

1. Measurement per dot.

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 performances, such as forward driving votage, 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 confinuous operation, and more significantly, environmental conditions is emitient temperature for example). It allowed working under optimal operating temperature range and with good verification, LED devices enjoy long service lives over conventional light is sources. When using highesting little Devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature products.

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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^{3.} An Ethernet-based e:cue protocol used for communication between e:cue Engines and Interfaces.

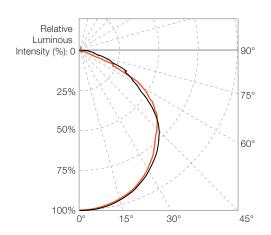
Allegro Dot XS RGB Photometrics

Source Specifications (Clear)

Source	High intensity SMT RGB
Optics	115°

Candela Distribution

Light Output



Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
RGB FULL ON	7.0	2.52	17
Red ON	2.2	0.79	11
Green ON	4.6	1.64	28
Blue ON	0.7	0.26	8

Illuminance at a Distance



For fc divide by 10.7

For feet multiply by 3.28

 $\ensuremath{\mathsf{IES}}$ and $\ensuremath{\mathsf{LDT}}$ files are available for download from the Traxon website.

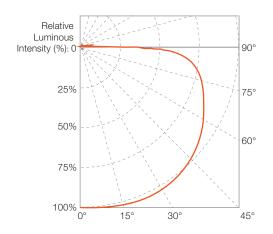
Allegro Dot XS RGB Photometrics

Source Specifications (Diffused)

Source	High intensity SMT RGB
Optics	175°

Candela Distribution

Light Output



Color	Luminous Flux (Im)	Center Intensity (cd)	Efficacy (lm/W)
RGB FULL ON	6.0	1.16	14
Red ON	1.9	0.36	10
Green ON	3.9	0.75	24
Blue ON	0.6	0.12	6

Illuminance at a Distance

	Center beam Lux/klm	Beam width (m)
		Н
0.5m	739	24.90m
1.0m	185	49.80m
1.5m	82	74.69m
2.0m	46	99.59m
2.5m	31	124.49m
	21	149.39m
3.0m	21	149.39m

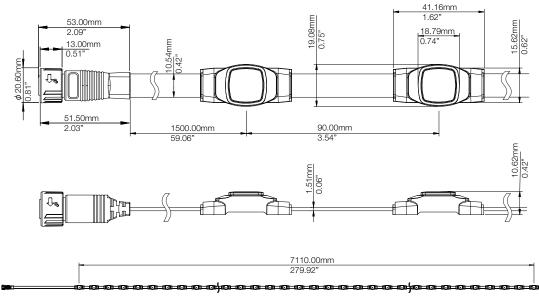
Horiz.Spread: 175.4°

For fc divide by 10.7

For feet multiply by 3.28

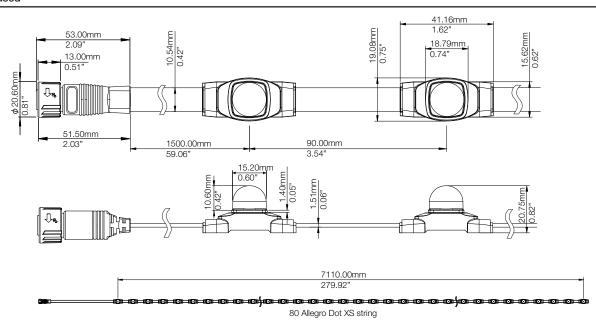
IES and LDT files are available for download from the Traxon website.

AL Dot XS Clear

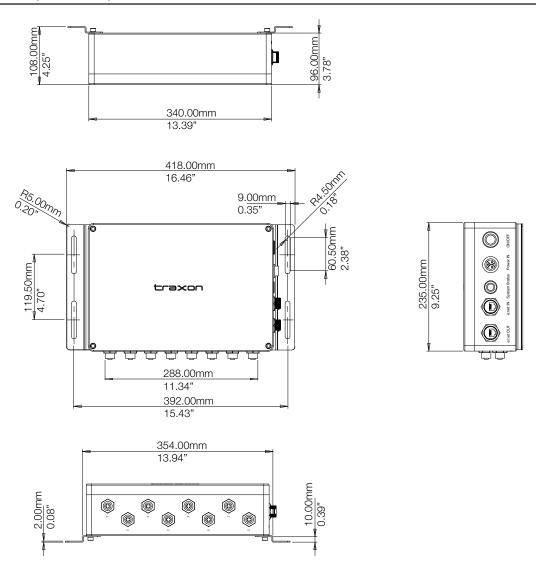


80 Allegro Dot XS string

AL Dot XS Diffused



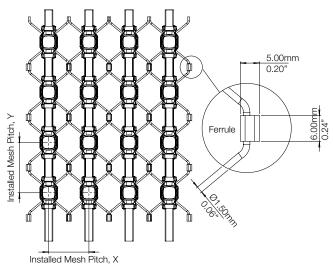
PXL Distributor Pro 8 (AM461810055)



NOTE: Please refer to the PXL Distributor Pro 8 datasheet for more technical details.

Allegro Dot XS RGB Mounting

High Density Dot Media Solution - STAINLESS STEEL MESH GRID

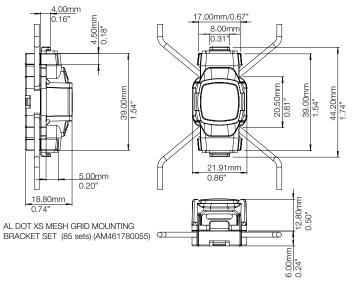


NOTE: The Mounting Bracket is designed to fit to this Ferrule dimension.

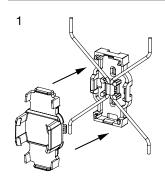
Standard Mesh Grid

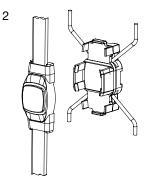
	Installed Mesh Pitch, x (mm)	Installed Mesh Pitch, y (mm)	Weight of MG / m² (g)
MG15-40	45	62	937
MG15-50 (Standard)	60	77	722
MG15-60	80	84	517
MG15-70	90	105	423
MG15-80	100	117	370
MG15-90	125	125	320
MG15-100	135	140	282
MG15-120	170	175	204
MG15-90 MG15-100	125 135	125 140	320 282

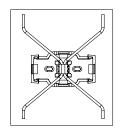
NOTE: Pitch measured when the mesh grid is fully stretched.

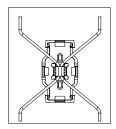


Mounting









Horizontal cable run

Vertical cable run

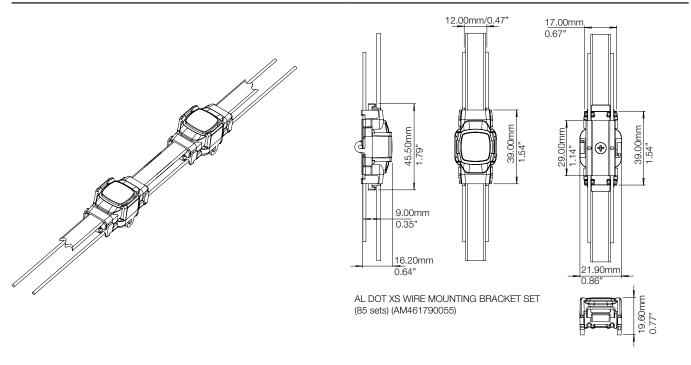
NOTE: Please refer to the installation guide for Mesh Grid installation planning.

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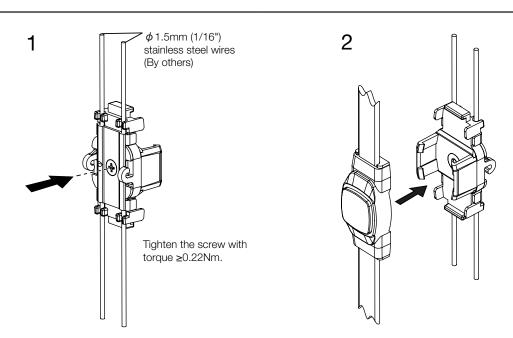
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Allegro Dot XS RGB Mounting

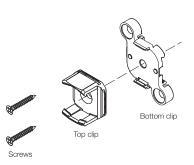
Low Density / Single String Installation Solution - WIRE MOUNTING



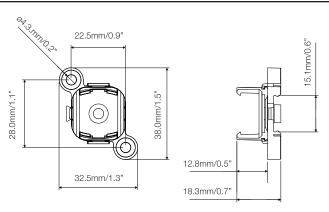
Mounting

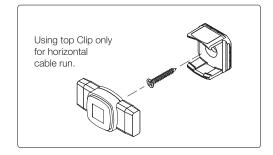


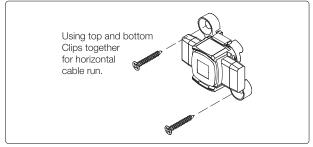
Low Density / Single String Installation Solution - DOT CLIP

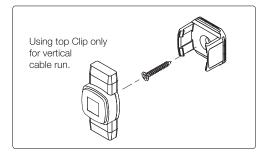


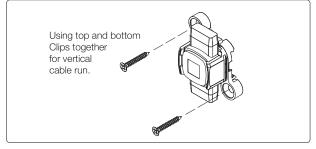


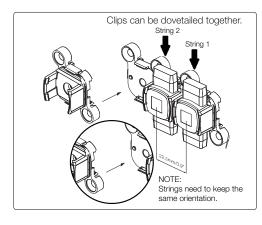


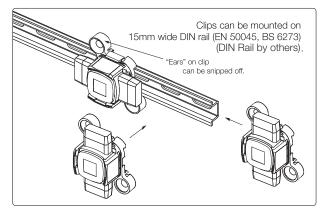








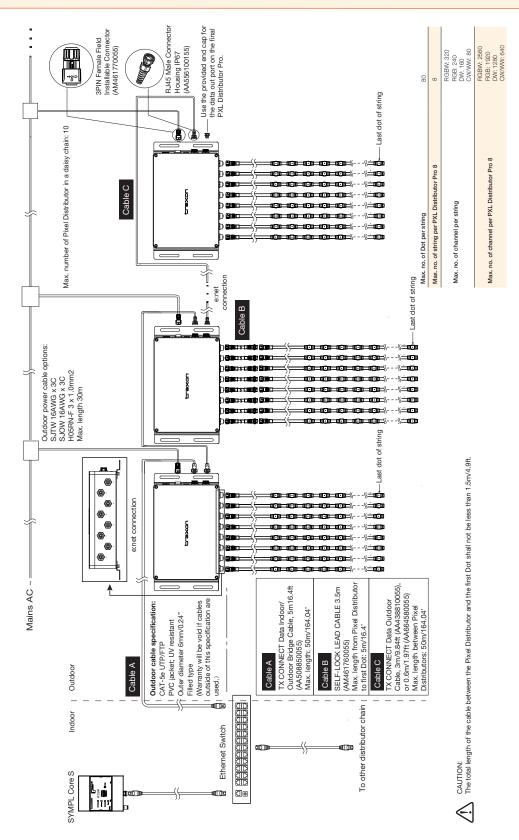




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Allegro Dot XS System Diagram



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Product Specification

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Allegro Dot XS RGB

Ordering

Fixtures

Model No.	Description	Item Code
DO.A4.2100010	AL DO XS CR RGB 80PPF 90P 1.5M	AM461070055
DO.A4.2200010	AL DO XS DF RGB 80PPF 90P 1.5M	AM461080055

Mounting Accessories

Model No.	Description	Item Code
N/A	STAINLESS STEEL MG15-50* *Check with your local Traxon e:cue regional office for additional customization options	N/A
N/A	AL DOT XS MESH GRID MOUNTING BRACKET SET (85 SETS)	AM461780055
N/A	AL DOT XS WIRE MOUNTING BRACKET SET (85 SETS)	AM461790055
N/A	AL DOT XS INDIVIDUAL CLIP (85 SETS)	AM461800055

Connection Accessories

Model No.	Description	Item Code
DO.AP.0081000	PXL DISTRIBUTOR PRO 8 (8-PORT) FOR AL DOT XS	AM461810055
N/A	SELF-LOCK AL DO XS LEAD CABLE 3.5M (EXTENSION CABLE FROM DOT TO PXL DISTRIBUTOR)	AM461760055
N/A	3PIN FIELD INSTALLABLE CONNECTOR PD8 IP67	AM461770055

TX Connect

Model No.	Description	Item Code
DE.AC.0100000	RJ45 MALE CONNECTOR HOUSING IP67	AA556100155
DE.IC.0300000	TX CONNECT DATA OUTDOOR CABLE, 3M/9.84FT	AA438810055
DE.IC.0060000	TX CONNECT DATA OUTDOOR CABLE, 0.6M/1.97FT	AA664580055
DE.AC.0000100	TX CONNECT DATA INDOOR/OUTDOOR BRIDGE CABLE, 5M/16.4FT	AA508850055

e:cue Control

Model No.	Description	Item Code
N/A	SYMPL Core S	AB447060035
N/A	SYMPL Core SP	AM430280035
N/A	LCE3FX	AM368100135
N/A	LCE3	AM368100035

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Product Specification



