



## Allegro Dot M DW Allegro Dot L DW

Allegro Dot DW is the next generation of intelligent media dot family. It is an extra bright Dynamic White clear or diffused dot. The dots can provide advanced features and flexibility for lighting design and project execution. Customizable pitch containing up to 46 dots max in Dot M and 28 dots max in Dot L.



### Product Specifications

Model	Allegro Dot M DW Direct View	Allegro Dot M DW Diffused View	Allegro Dot L DW Direct View	Allegro Dot L DW Diffused View
<b>Light Source</b>	3 Warm White LEDs (2700K) and 3 Cold White LEDs (6500K) per dot		4 Warm White LEDs (2700K) and 4 Cold White LEDs (6500K) per dot	
<b>Beam Angle</b>	115°	150°	115°	150°
<b>Luminous Flux<sup>1</sup></b>	148 lm	135 lm	210 lm	192 lm
<b>Efficacy<sup>1</sup></b>	95 lm/W	87 lm/W	93 lm/W	85 lm/W
<b>Cover Lens</b>	Clear (PC)	Diffuser dome (PC)	Clear (PC)	Diffuser dome (PC)
<b>LED Pitch</b>	100mm to 4000mm; Standard: 150mm			
<b>Housing</b>	Die cast aluminum with PC cover			
<b>Adjustment Options</b>	Flexible cable			
<b>Dimensions (Ø x L x H)</b>	Ø68 x 60 x 17mm Ø2.7" x 2.4" x 0.7"	Ø68 x 60 x 39mm Ø2.7" x 2.4" x 1.5"	Ø68 x 60 x 17mm Ø2.7" x 2.4" x 0.7"	Ø68 x 60 x 39mm Ø2.7" x 2.4" x 1.5"
<b>Weight</b>	80g	90g	80g	90g
<b>Regulatory Listing &amp; Safety Approval</b>	cETLus, 3G ANSI C136.31			
<b>Operating Temperature</b>	-30°C to +50°C/-22°F to +122°F			
<b>Storage Temperature</b>	-40°C to +70°C/-40°F to +158°F			
<b>Environment</b>	Outdoor (IP66, IP67), suitable for coastal environments			
<b>Humidity</b>	0 to 90% non-condensing			

### Electrical Specifications

<b>Operating Voltage</b>	30V DC	
<b>Power Consumption<sup>1</sup></b>	1.5W	2.5W

### System Specifications

<b>Control</b>	DMX512/e:pix/RDM/e:net
<b>Power Supply</b>	LED ENG 100W 30V IP67 AL DO (Class 2)
<b>Addressing Options</b>	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 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 complies with LM-79-08 standard.  
Lumen maintenance is calculated based on LM-80 compliant measurement.





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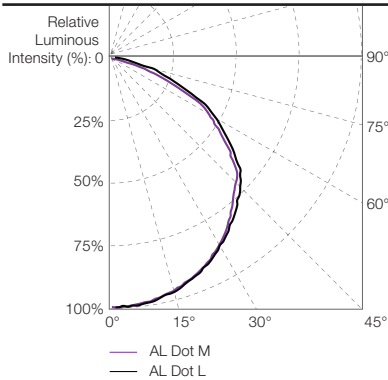
## Allegro Dot M DW Allegro Dot L DW

## Photometrics

### Source Specifications

<b>Source</b>	3 Warm White LEDs (2700K) and 3 Cold White LEDs (6500K) per dot (One AL Dot M)	4 Warm White LEDs (2700K) and 4 Cold White LEDs (6500K) per dot (One AL Dot L)
<b>Optics</b>	110° (Clear cover)	

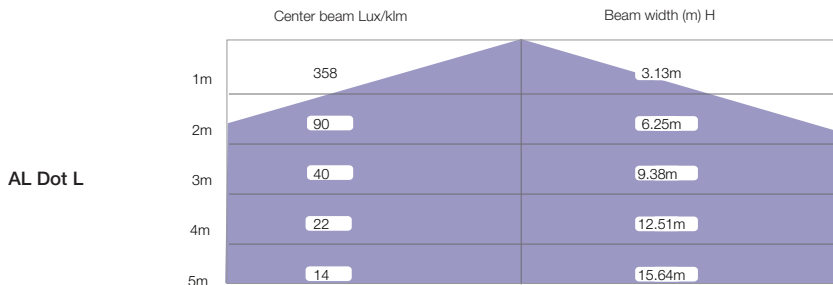
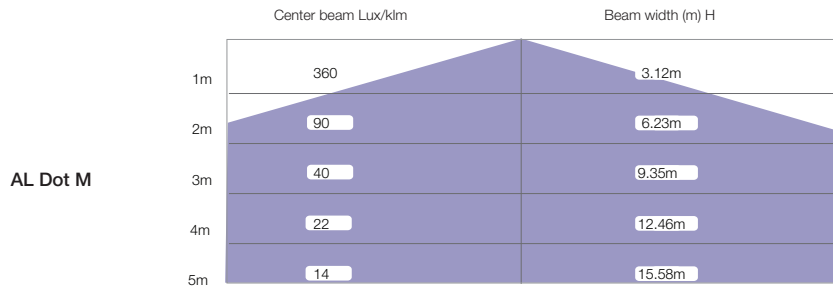
### Candela Distribution



### Light Output

	Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>AL Dot M</b>	<b>DW (full-on)</b>	148.4	53.42	95.13
	<b>WW</b>	72.53	26.11	83.37
	<b>CW</b>	76.34	27.48	87.75
<b>AL Dot L</b>	<b>DW (full-on)</b>	210.83	75.53	92.88
	<b>WW</b>	103.36	37.03	85.42
	<b>CW</b>	107.77	38.61	89.07

### Illuminance at a Distance





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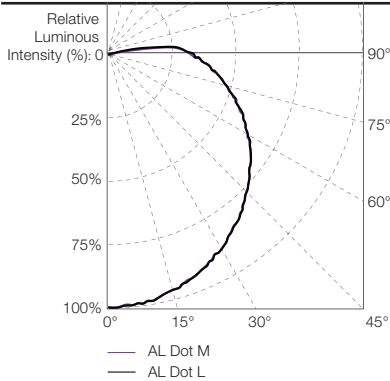
## Allegro Dot M DW Allegro Dot L DW

## Photometrics

### Source Specifications

<b>Source</b>	3 Warm White LEDs (2700K) and 3 Cold White LEDs (6500K) per dot (One AL Dot M)	4 Warm White LEDs (2700K) and 4 Cold White LEDs (6500K) per dot (One AL Dot L)
<b>Optics</b>	150° (Diffuser Dome cover)	

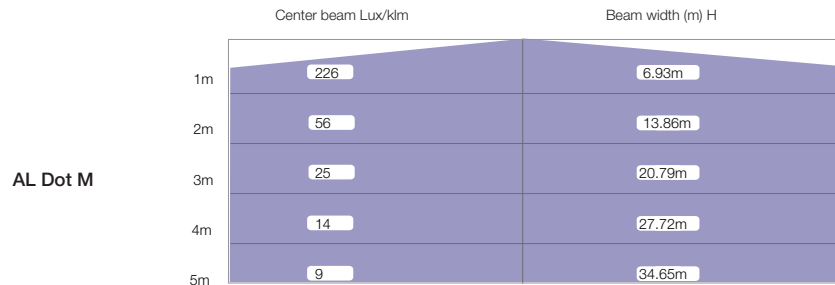
### Candela Distribution



### Light Output

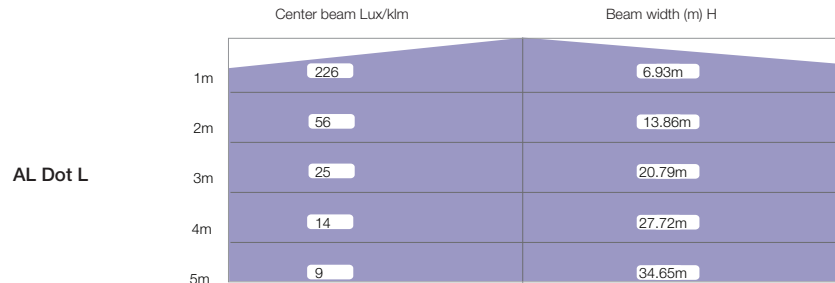
	Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>AL Dot M</b>	<b>DW (full-on)</b>	135.04	30.51	86.56
	<b>WW</b>	66	14.91	75.86
	<b>CW</b>	69.47	15.7	79.85
<b>AL Dot L</b>	<b>DW (full-on)</b>	192.29	43.44	84.71
	<b>WW</b>	94.79	21.41	78.34
	<b>CW</b>	97.96	22.13	80.96

### Illuminance at a Distance



For fc divide by 10.7  
IES and LDT files are available for download from the Traxon website.

● Horiz.Spread: 147.8°  
For feet multiply by 3.28



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For feet multiply by 3.28

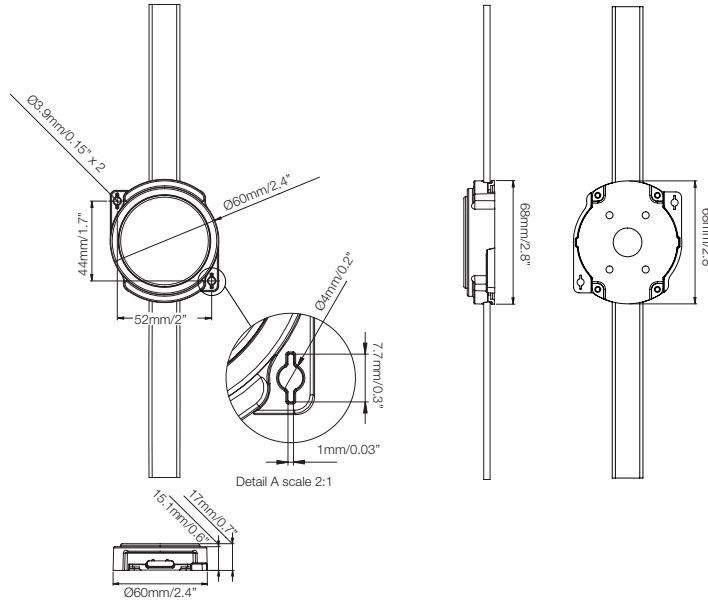


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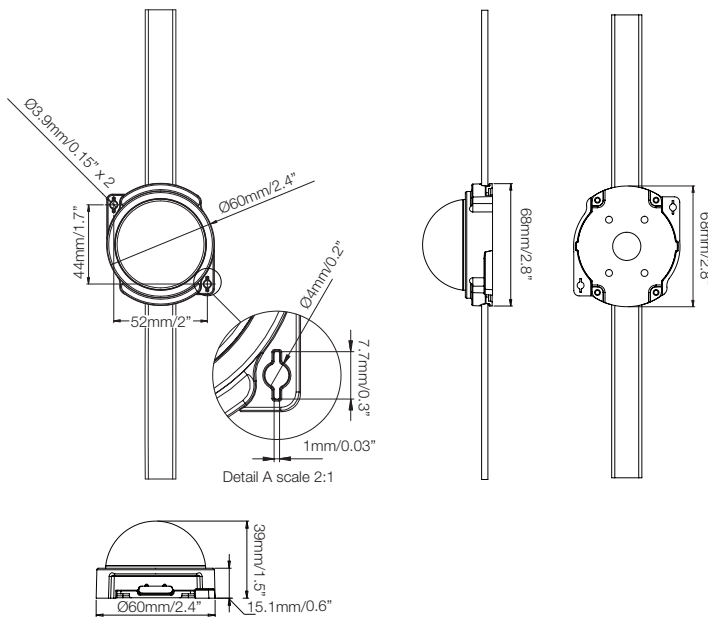
Allegro Dot M DW  
Allegro Dot L DW

Dimensions

## Dot M/ L Direct View



## Dot M/ L Diffused View



[www.traxon-ecue.com](http://www.traxon-ecue.com)

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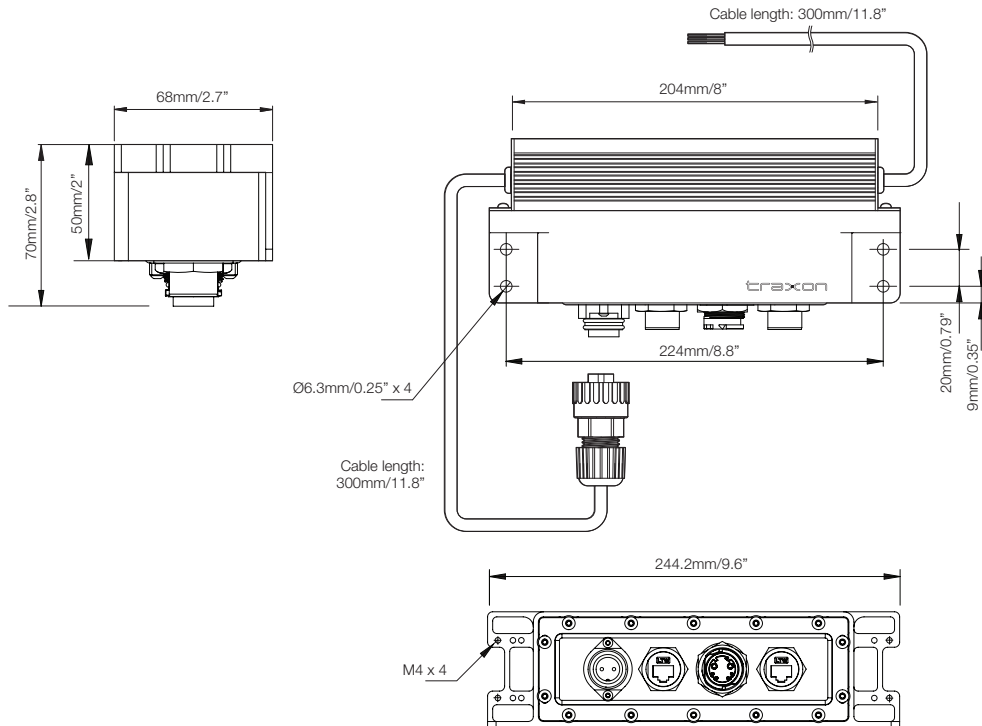


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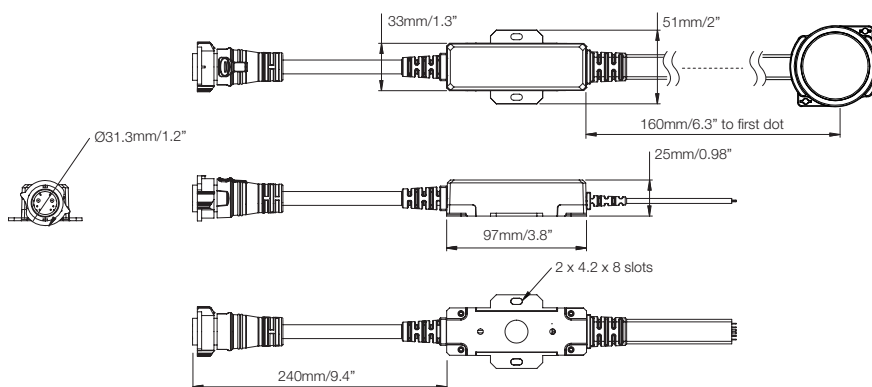
Allegro Dot M DW  
Allegro Dot L DW

Dimensions

## Pixel Distributor with Power Supply (Outdoor 100W)



## Dot M/ L Smart Junction



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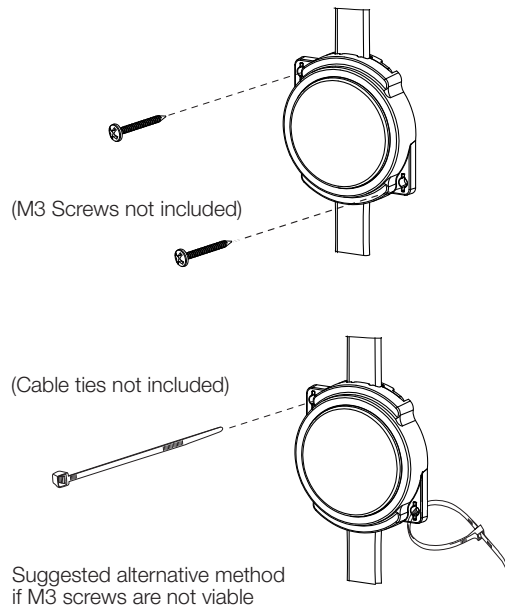


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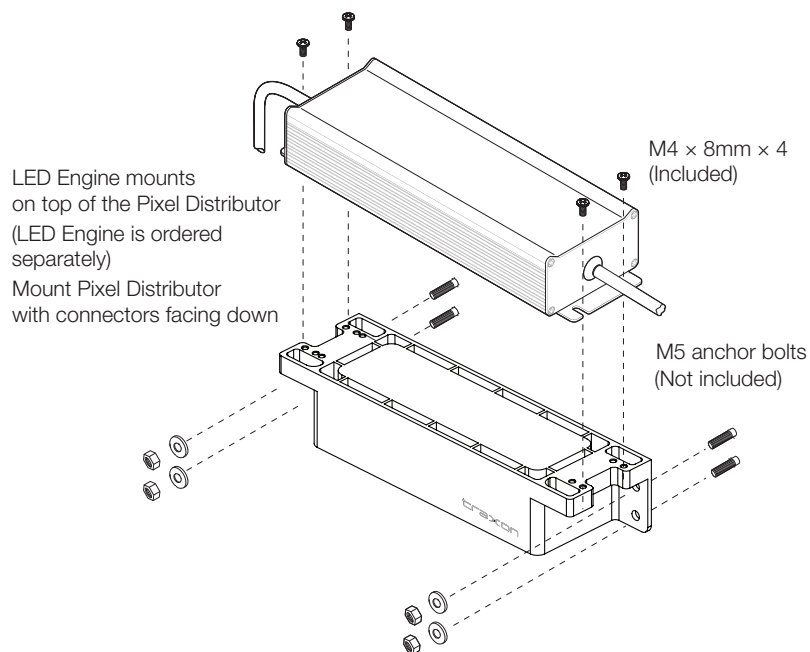
Allegro Dot M DW  
Allegro Dot L DW

Mounting

Dot M/ L



Pixel Distributor



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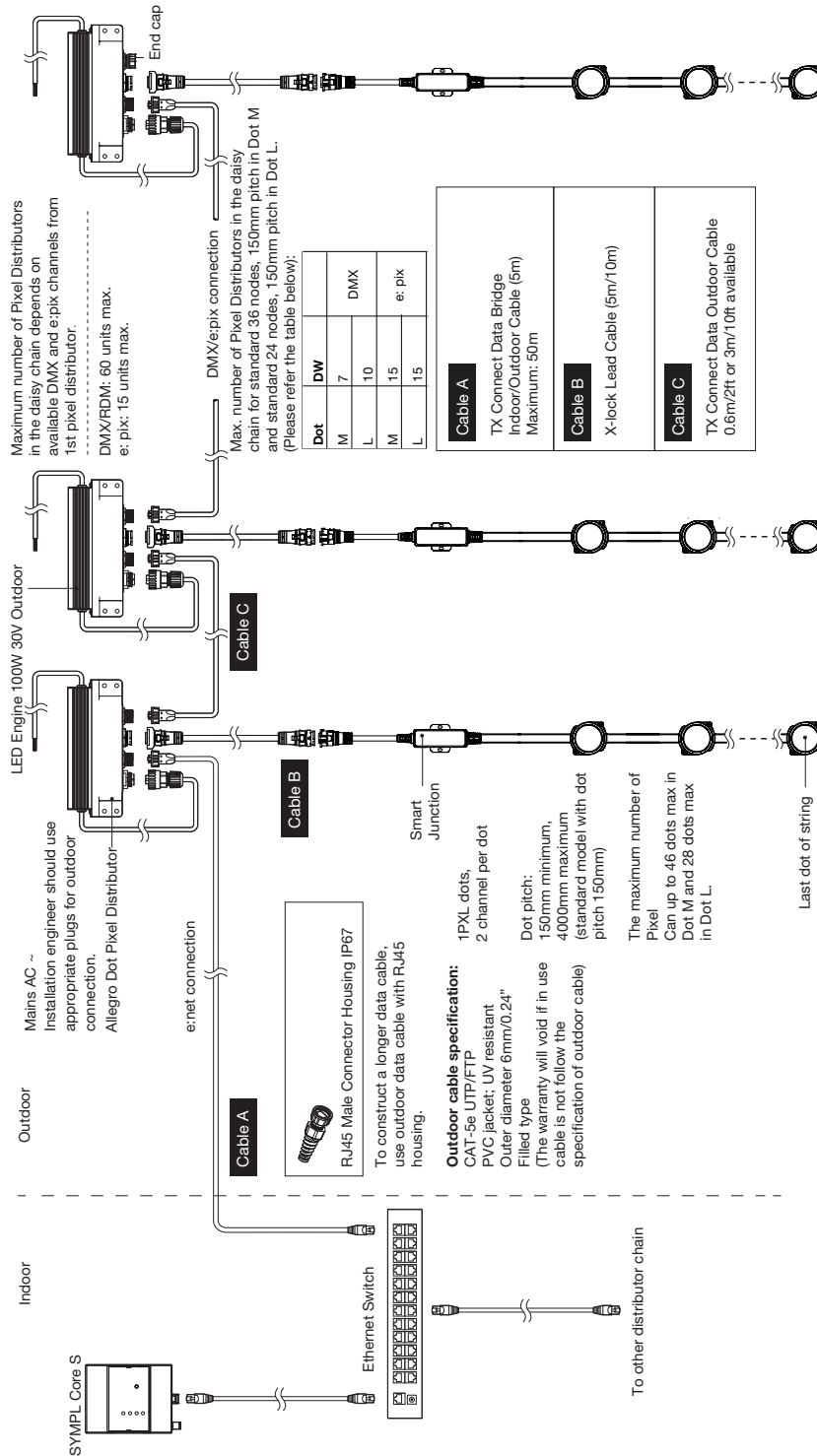


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## Allegro Dot M DW Allegro Dot L DW

## System Diagram

### System Diagram—e:net connection



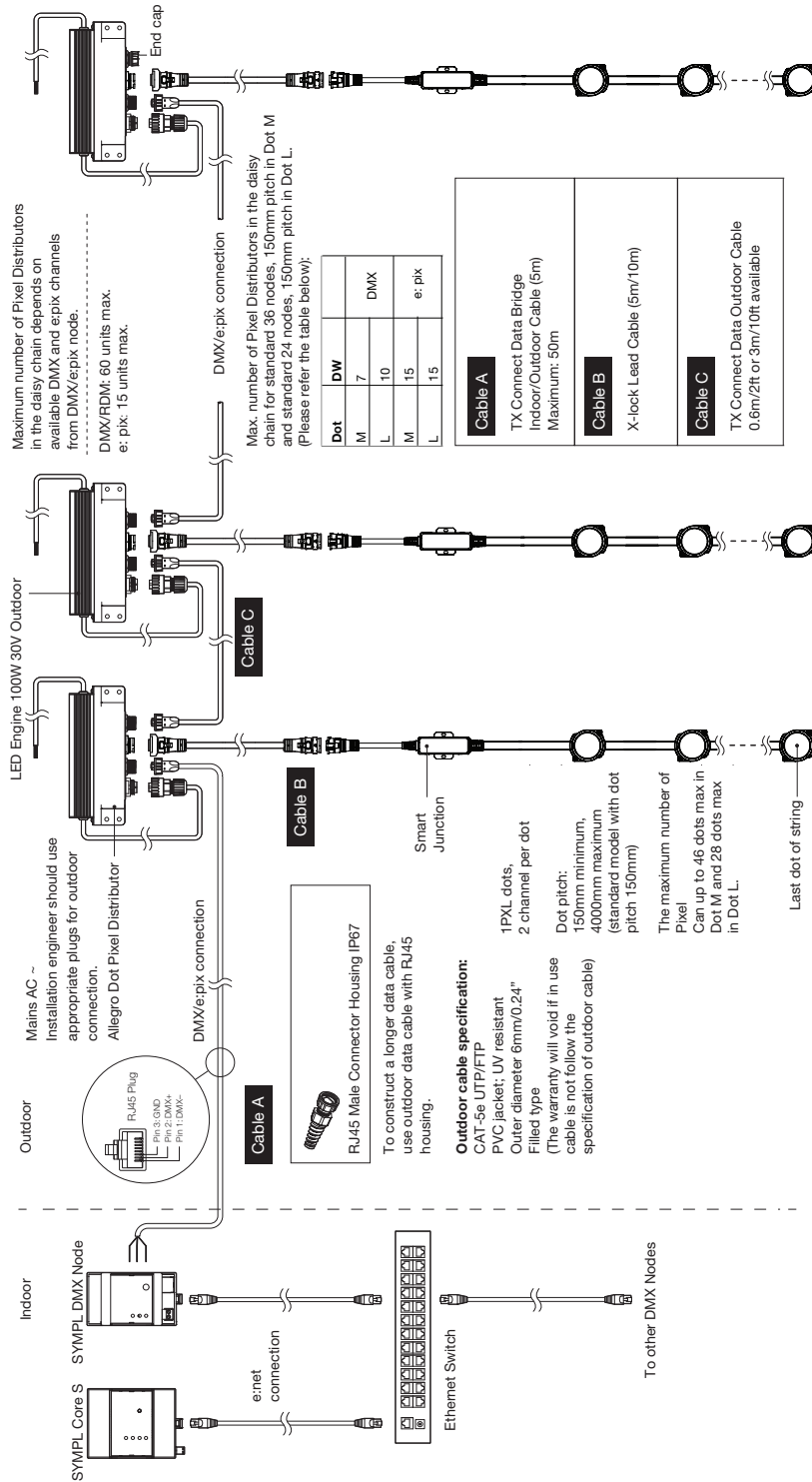


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## Allegro Dot M DW Allegro Dot L DW

## System Diagram

### System Diagram—DMX / e:pix connection







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## Allegro Dot M DW Allegro Dot L DW

Ordering

### Fixtures

Model No.	Description	Item Code
DO.A2.3110020	AL DO M CR DW 36PPF 150P 0.5M WT	N/A
DO.A2.3210020	AL DO M DF DW 36PPF 150P 0.5M WT	N/A
DO.A2.3110030	AL DO M CR DW 36PPF 300P 0.5M WT	N/A
DO.A2.3210030	AL DO M DF DW 36PPF 300P 0.5M WT	N/A
DO.A3.3110020	AL DO L CR DW 24PPF 150P 0.5M WT	N/A
DO.A3.3210020	AL DO L DF DW 24PPF 150P 0.5M WT	N/A
DO.A3.3110030	AL DO L CR DW 24PPF 300P 0.5M WT	N/A
DO.A3.3210030	AL DO L DF DW 24PPF 300P 0.5M WT	N/A

### Standard Accessories

Model No.	Description	Item Code
DO.AD.0001020	ALLEGRO DOT PXL DISTRIBUTOR	AM278810055
DO.AC.0100300	X-LOCK LEAD CABLE 5M 14AWG VS15 TX	AM061830055
DO.AC.0100400	X-LOCK LEAD CABLE 10M 14AWG VS10 TX	AM061850055

### Optional Accessories

Model No.	Description	Item Code
N/A	AL DOT M/L FIELD CUT END CAP	AM355000055

### E:cue Control

Model No.	Description	Item Code
N/A	SYMPL Core S	AB447060035
N/A	SYMPL DMX Node	AB444180035
N/A	SYMPL e:pix Node	AB443930035
EN.BP.0000100	Butler Pro DMX/RDM	AA628600035
EN.BP.0000200	Butler Pro e:pix	AA628610035
EN.BU.0000001	Butler S2	AB436200031
AC.BG.0000001	Butler S2 Garage (Optional)	AA611800031

### TX Connect

Model No.	Description	Item Code
DE.AC.0000100	TX CONNECT Data Indoor/Outdoor Bridge Cable, 5m/16.4ft	AA508850055
DE.IC.0060000	TX CONNECT Data Outdoor Cable, 0.6m/1.97ft	AA664580055
DE.IC.0300000	TX CONNECT Data Outdoor Cable, 3m/9.84ft	AA438810055
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155

### TX Power

Model No.	Description	Item Code
N/A	LED ENG 100W 30V IP67 AL DO	AM019490055