



TRAXON

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



Allegro Dot M WW Allegro Dot L WW

Allegro Dot WW is the next generation of intelligent media dot family. It is an extra bright Warm White clear or diffused dot. The dots can provide advanced features and flexibility for lighting design and project execution. Customizable pitch containing up to 60 dots max in Dot M and 56 dots max in Dot L.



Product Specifications

Model	Allegro Dot M WW Direct View	Allegro Dot M WW Diffused View	Allegro Dot L WW Direct View	Allegro Dot L WW Diffused View
Light Source	6 White LEDs per dot		8 White LEDs per dot	
Beam Angle	110°	150°	110°	150°
Luminous Flux ¹	178 lm	160 lm	288 lm	259 lm
Efficacy ¹	93 lm/W	83 lm/W	91 lm/W	82 lm/W
Cover Lens	Clear (PC)	Diffuser dome (PC)	Clear (PC)	Diffuser dome (PC)
LED Pitch	150mm to 4000mm; Standard: 150mm			
Housing	Die cast aluminum with PC cover			
Adjustment Options	Flexible cable			
Dimensions (Ø x L x H)	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"
Weight	80g	90g	80g	90g
Regulatory Listing & Safety Approval	CE, 3G ANSI C136.31			
Operating Temperature	-30°C to +60°C/-22°F to +140°F			
Storage Temperature	-40°C to +70°C/-40°F to +158°F			
Environment	Outdoor (IP66, IP67), suitable for coastal environments			
Humidity	0 to 90% non-condensing			

Electrical Specifications

Operating Voltage	30V DC		
Power Consumption ¹	2W		3W

System Specifications

Control	DMX512/e:pix/RDM/e:net
Power Supply	LED ENG 240W 30V IP67 AL DO/LED ENG 185W 30V IP67 AL DO/ LED ENG 100W 30V IP67 AL DO
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 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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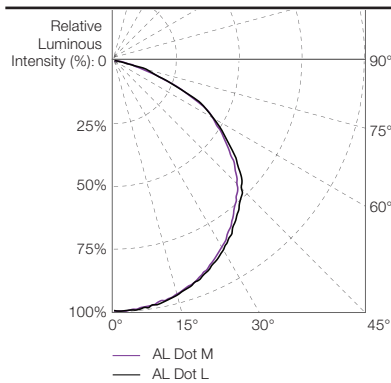
Allegro Dot M WW Allegro Dot L WW

Photometrics

Source Specifications

Source	6 LEDs packaged in White (One AL Dot M)	8 LEDs packaged in White (One AL Dot L)
Optics	110° (Clear cover)	

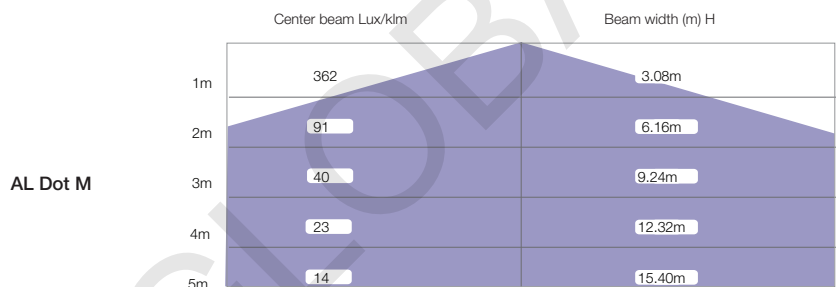
Candela Distribution



Light Output

	Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
AL Dot M	White	177.78	64.39	92.59
AL Dot L	White	287.84	101.36	90.8

Illuminance at a Distance

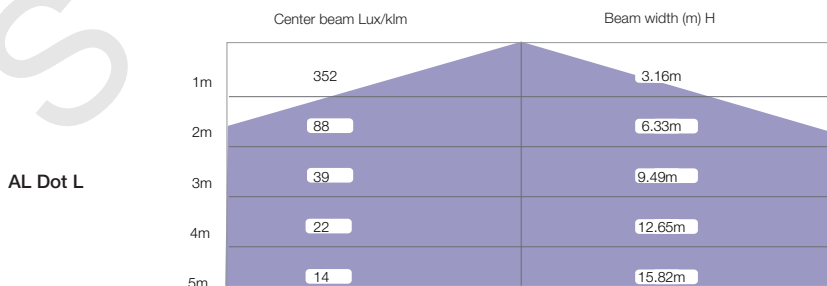


For fc divide by 10.7

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

■ Horiz.Spread: 114.0°

For feet multiply by 3.28



For fc divide by 10.7

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

■ Horiz.Spread: 115.4°

For feet multiply by 3.28



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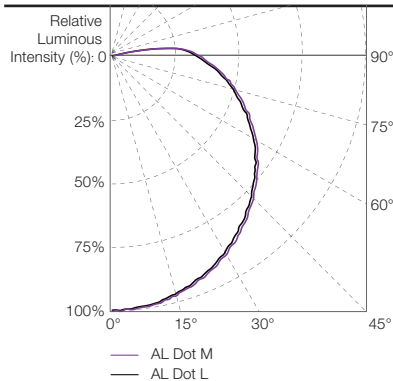
Allegro Dot M WW Allegro Dot L WW

Photometrics

Source Specifications

Source	6 LEDs packaged in White (One AL Dot M)	8 LEDs packaged in White (One AL Dot L)
Optics	150° (Diffuser Dome cover)	

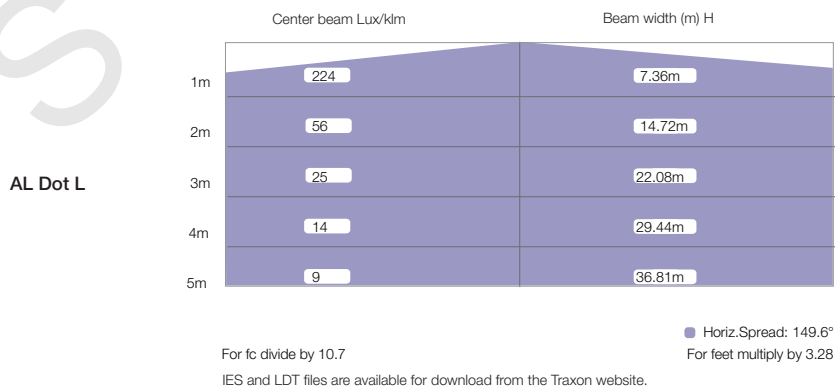
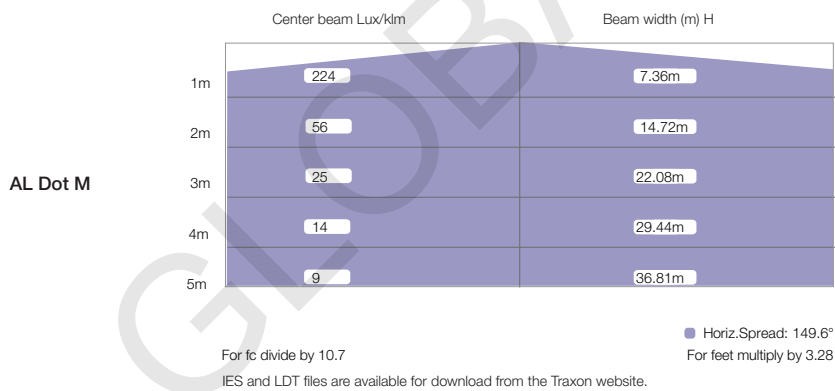
Candela Distribution



Light Output

	Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
AL Dot M	White	160	35.91	83.33
AL Dot L	White	259.06	58.15	81.72

Illuminance at a Distance



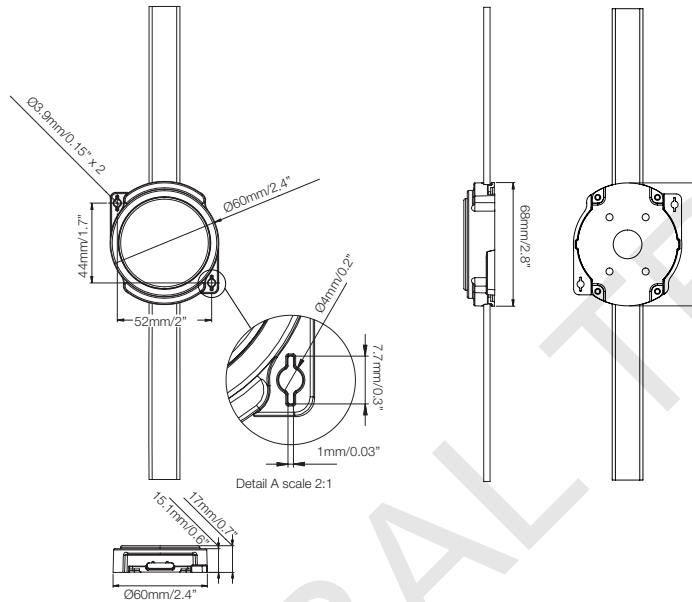


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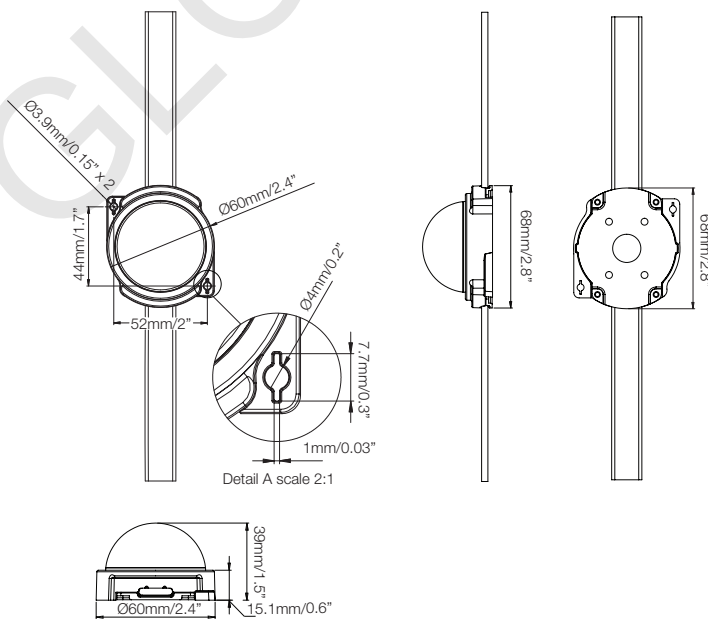
Allegro Dot M WW
Allegro Dot L WW

Dimensions

Dot M/ L Direct View



Dot M/ L Diffused View



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Product Specification

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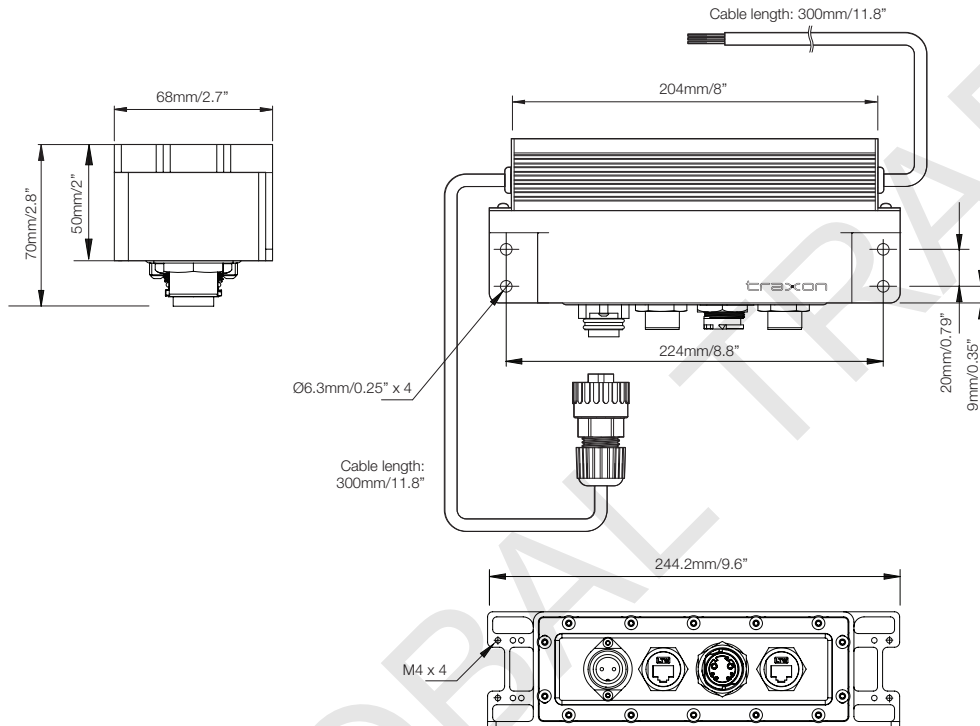


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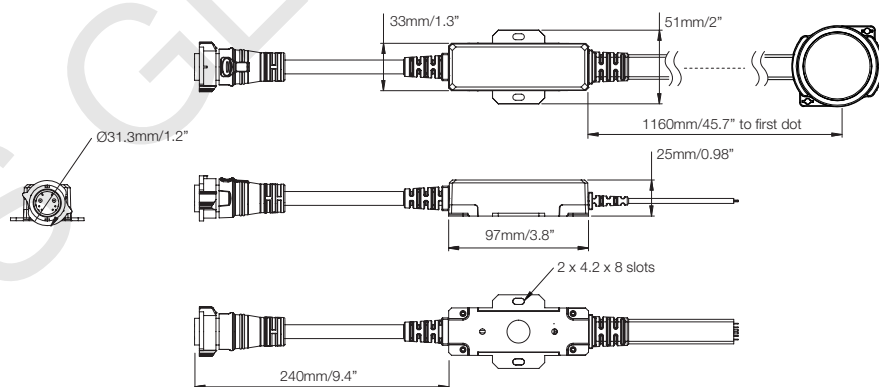
Allegro Dot M WW
Allegro Dot L WW

Dimensions

Pixel Distributor with Power Supply



Dot M/ L Smart Junction



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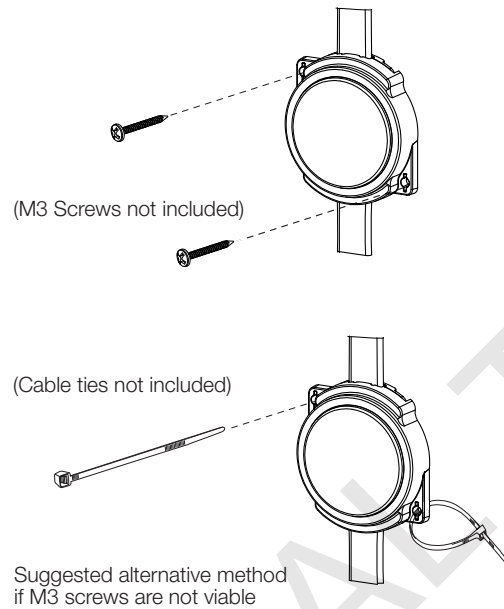


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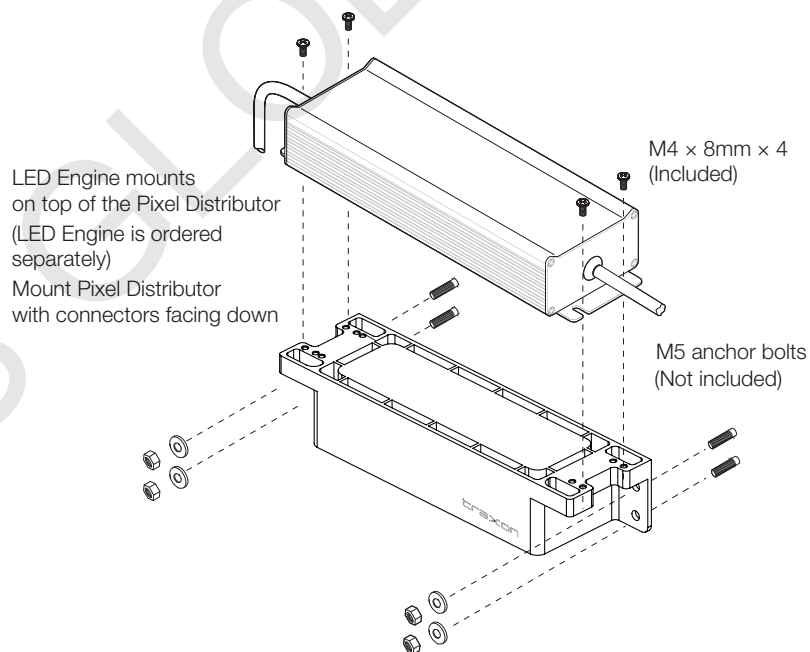
Allegro Dot M WW
Allegro Dot L WW

Mounting

Dot M/ L



Pixel Distributor



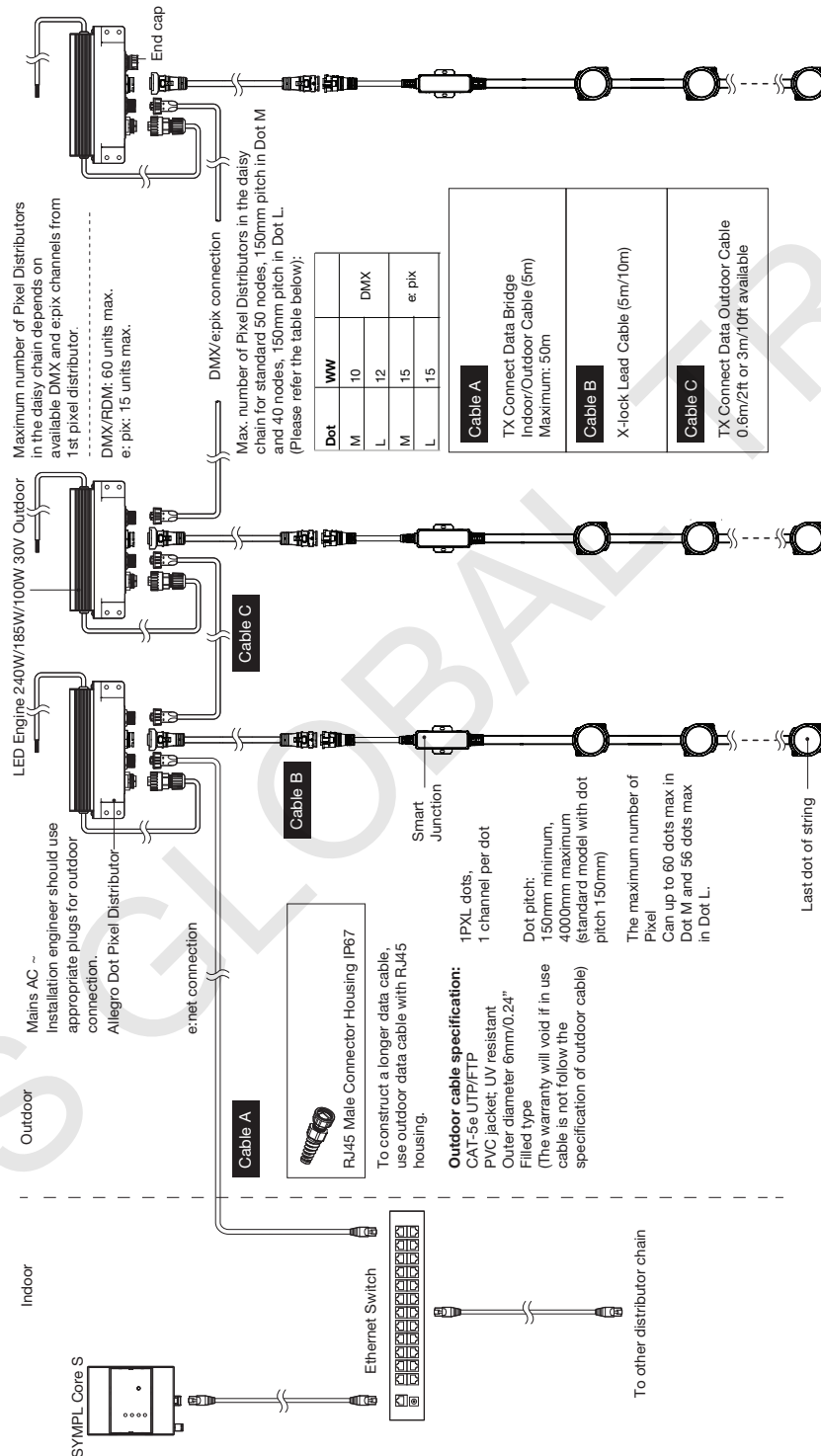


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Allegro Dot M WW Allegro Dot L WW

System Diagram

System Diagram—e:net connection





System Diagram

Indoor

SYMPLE Core S

SYMPLE DMX Node

e:net connection

Outdoor

Mains AC ~

Installation engineer should use appropriate plugs for outdoor connection.

Allegro Dot Pixel Distributor

LED Engine 240W/185W/100W 30V Outdoor

DMX/e:pix connection

Cable A

RJ45 Plug

RJ45 GND

Rx 1-2 DMX+

Rx 1-1 DMX-

Cable B

RJ45 Male Connector Housing IP67

To construct a longer data cable, use outdoor data cable with RJ45 housing.

Cable C

Smart Junction

1PXL dots, 1 channel per dot

Outdoor cable specification:

- CAT-5e UTP/FTP
- PVC jacket; UV resistant
- Outer diameter 6mm/0.24"
- Filled type

(The warranty will void if in use cable is not follow the specification of outdoor cable)

The maximum number of Pixel Can up to 60 dots max in Dot M and 56 dots max in Dot L

Last dot of string

End cap

Maximum number of Pixel Distributors in the daisy chain depends on available DMX and e:pix channels from DMX/e:pix node.

DMX/RDM: 60 units max.
e: pix: 15 units max.

Max. number of Pixel Distributors in the daisy chain for standard 50 nodes, 150mm pitch in Dot M and 40 nodes, 150mm pitch in Dot L. (Please refer the table below):

Dot	WW	DMX	e: pix
M	10		
L	12		
M	15		
L	15		

Cable A

TX Connect Data Bridge
Indoor/Outdoor Cable (5m)
Maximum: 50m

Cable B

X-lock Lead Cable (5m/10m)

Cable C

TX Connect Data Outdoor Cable
0.6m/2ft or 3m/10ft available





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Allegro Dot M WW Allegro Dot L WW

Ordering

Fixtures

Model No.	Description	Item Code
DO.A2.4110010	AL DO M CR WW 50PPF 150P 1.5M WT	N/A
DO.A2.4210010	AL DO M DF WW 50PPF 150P 1.5M WT	N/A
DO.A3.4110010	AL DO L CR WW 40PPF 150P 1.5M WT	N/A
DO.A3.4210010	AL DO L DF WW 40PPF 150P 1.5M 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, 5m16.4ft	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 240W 30V IP67 AL DO	AM290860055
N/A	LED ENG 185W 30V IP67 AL DO	AM019480055
N/A	LED ENG 100W 30V IP67 AL DO	AM019490055



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Product Specification

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