MaxiLED Lighting

MaxiLINK ENABLED
Data over Power distribution to the fixtures

DATA Over POWER
2 Core
Data over Power

DMX RGBW Controllable

MaxiDOT 180° Series

102 / 302 DMX controllable

UL UKCA CE IP67

MaxiDOT 102 / 302 180º Series
DMX RGBW - Datasheet

KEY FEATURES

- 512 DMX RGBW Controllable
- IP67
- 180º Viewing angle
- Multi chip Cree® LED
- 48VAC Data over Power 2 wire system
- High Impact Acrylic Dome

Product Overview

Our MaxiDOT 180º series is avainable in two sizes, 102 and 302, the fitting is the perfect solution for most building facades. Delivering 180º viewing not only for marker light applications but for low resolution screen and matrix systems. Manufactured from quality materials and incorporating our Patented 2 wire data over power technology giving full DMX 512 control down the 2 power wires makes it the simplest to install and most cost effective product of its type in the market place today.

MaxiDOT 102 180º series

MaxiDOT 302 180º series

Specifications	102 180º	302 180º
Dimming		
DMX512 Dimmable (Data Over power):	YES	YES
DMX 512 refresh rate:	44hz	44hz
LED Options		
(Cree XQE Led's) RGBW:	YES	YES
(Cree XQE Led's) RGBWW:	YES	YES
Intelligent white 2700k-6000K:	YES	YES
Single colour DMX:	YES	YES
Lens		
Acrylic frosted dome. 180º viewing	YES	YES
Electrical specification		
Power input:	48VAC Data Over Power MaxiLINK system	
LED Current:	200ma	200ma
Watts per unit:	4.8w	14.4w
Max. Units per system 14 AWG (1.5mm sq) cable:	50	16
Max distance from 1st to last unit 14 AWG (1.5mm sq) cable:	100m	100m
Lumens RGBW Clear Glass (Full On):	150	450
Lumens Intelligent white (Full On):	250	750
Lumen Maintenance 85%:	90,000Hrs	90,000Hrs
System Cable Distances		
Max. 14 AWG (1.5mm sq) cable from MaxiLINK to 1st fitting:	15m	15m
Max. 10 AWG (2.5mm sq) cable from MaxiLINK to 1st fitting:	75m	75m
Protection		
IP67	YES	YES
Thermal Protection cut out at 70ºC:	YES	YES
Operation Temperature:	-25 to +50	-25 to +50
Finishes Options		
Black Anodised:	YES	YES
Silver Anodised:	YES	YES
RAL Powder Coat:	YES	YES
Listings:	UL LISTED, CE, UKCA	
Dimensions & Weights		
Diameter (mm):	60	138
Depth (mm):	85	135
Weight KG:	0.4KG	1KG

UK Designed and Manufactured

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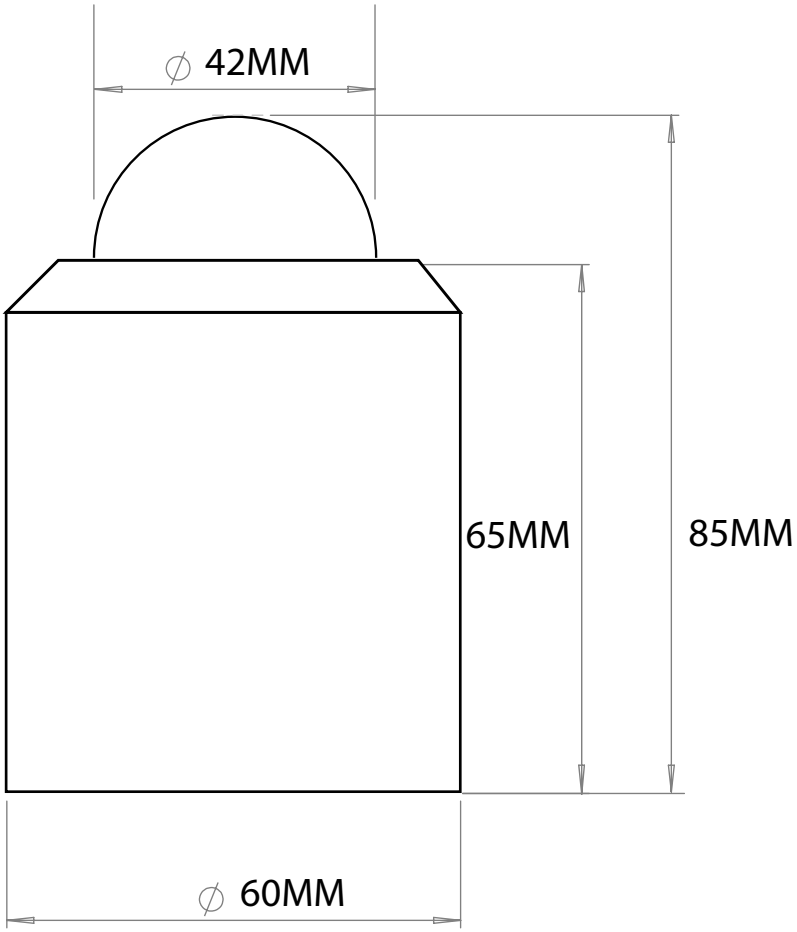
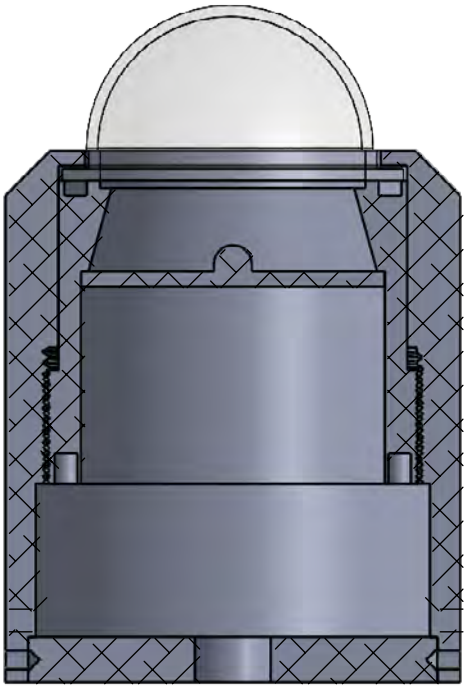
MaxiDOT 102 180º Series
Dimensions

Measurments in MM





SECTION A-A

MaxiLED Lighting

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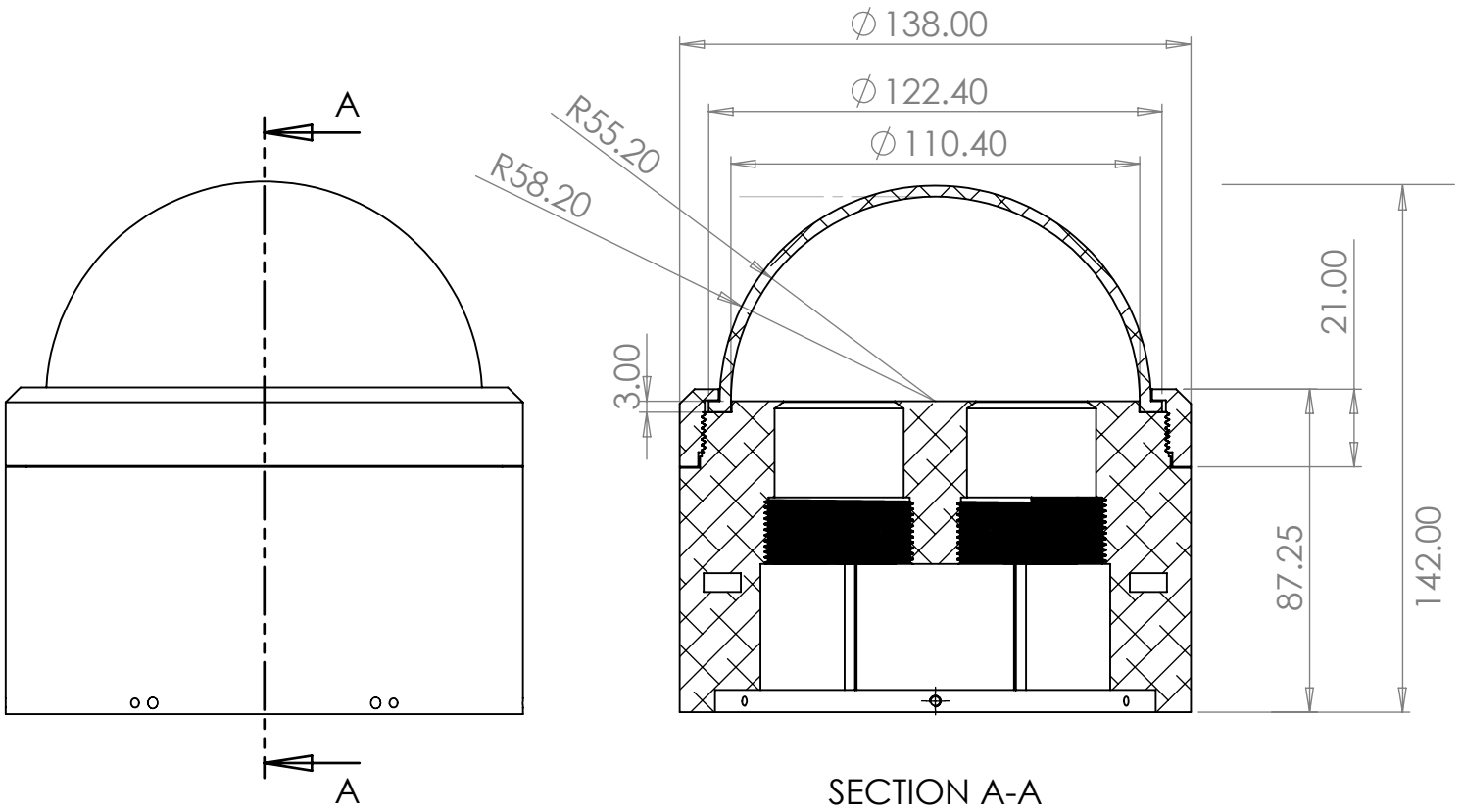
MaxiDOT 302 180º Series
Dimensions

Measurments in MM



SECTION A-A
SCALE 1 : 2

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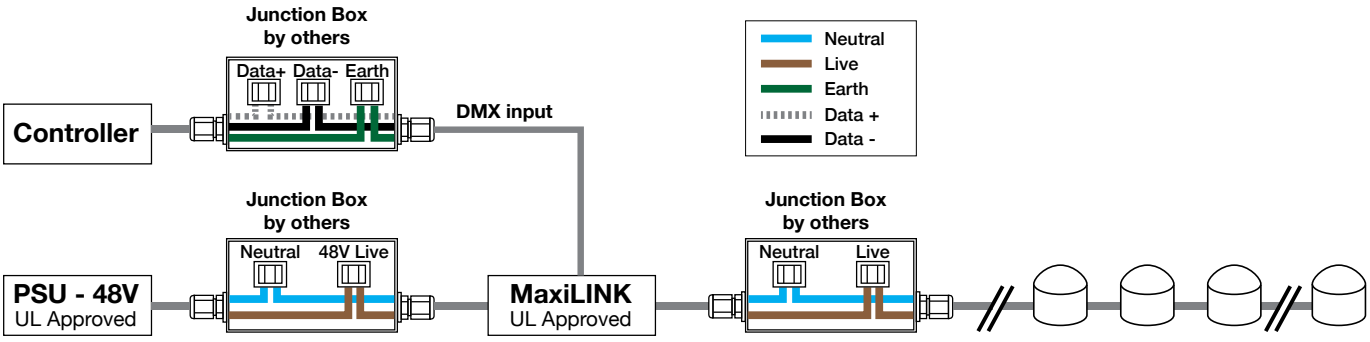
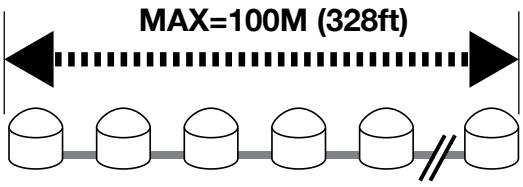
MaxiDOT 102 180º Series
Wiring Illustration

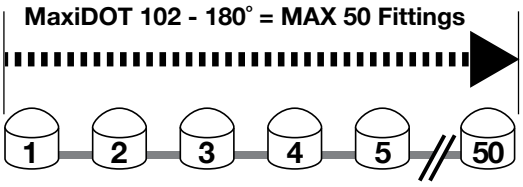
This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes.
Failure to comply with the installation instructions can result in serious injury or death.



MaxiDOT 102 180º
Maximum run distance



MaxiDOT 102 180º
Maximum fixture run



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MaxiDOT 302 180º Series
Wiring Illustration

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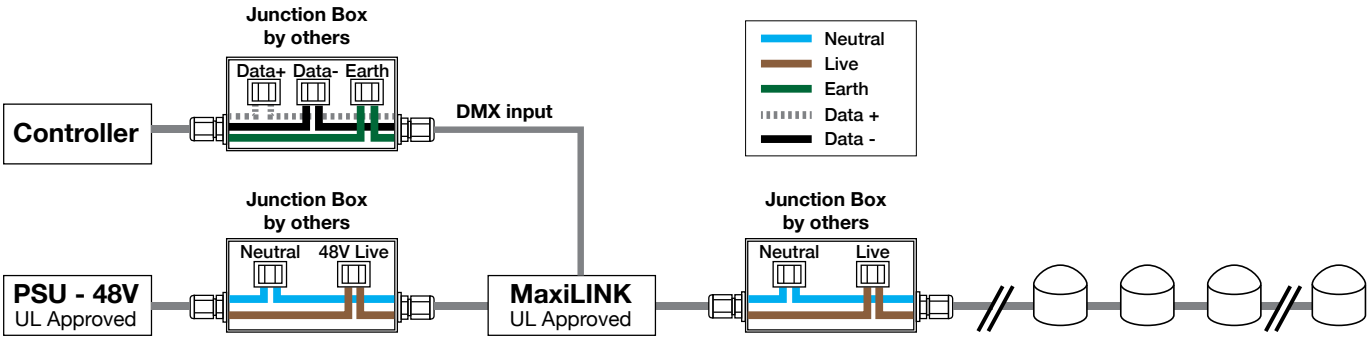
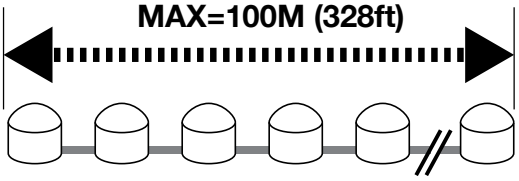
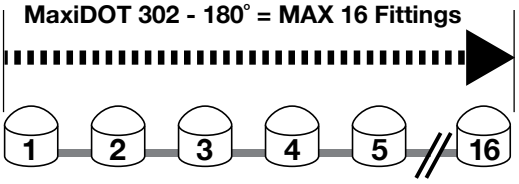


MaxiDOT 302 180º
Maximum run distance



MaxiDOT 302 180º
Maximum fixture run



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Revision 0.1

MaxiLED End of Line Resistors Instructions

This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes.
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1 Connect the End of Line Resistor

(a). Connect the End of Line Resistor Cable (Supplied Separately.) to the end of the 48V Data line after the last fitting.

NOTE: On the final lamp fitting an End of Line Connector MUST be Connected to allow the DMX data to 'Communicate.'
Without the End of Line Resistor the lamps will show DATA DISRUPTION
Connection is NOT Polarity Sensitive.

2 Data Disruption

(a). Once the system is powered up and the DMX 512 data transmission is available the end of line units will need setting.
Only perform this operation if the installation is flickering and not responding to the 512 DMX data transmission correctly.
Remove the Black Cap.

3 Fine Tuning 512 DMX data

(a). Using a Flat screw driver, turn the adjuster fully clockwise.
The lights will begin to randomly flicker.

(b). Turn the adjuster anticlockwise until the installation responds correctly, once it responds correctly continue to turn the adjuster until the installation starts to flicker again when it does stop, turn the adjuster clockwise slightly.

(c). The adjuster is now set.

4 Check list

(a). Once the lights are tuned and correct, replace the End of Line Resistor Black cap. Ensure a tight fit for a waterproof seal.

(SEE INSTALLATION INSTRUCTIONS FOR POWER SUPPLY OPTIONS.)

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MaxiDOT Series 102 / 302 180º
Order codes

Product		LED	Housing		Finish		Other	
MaxiDOT 102 180º	**MD102-180**	**RGBWW(2700K)**	Flush mounting plate	**FMP**	Black anodised	**AA**	End of line resistor	**ELR**
		RGBCW(6500K)			Silver anodised	**SA**		
		IW			(RAL) Powder Coat	**RAL**		
		2700						
		3500						
		6500						
		RED DMX						
		GREEN DMX						
		BLUE DMX						
EXAMPLE:	**MD102-180**	**3500**		**FMP**		**SA**		**ELR**

Product		LED	Housing		Finish		Other	
MaxiDOT 302 180º	**MD102-180**	**RGBWW(2700K)**	Flush mounting plate	**FMP**	Black anodised	**AA**	End of line resistor	**ELR**
		RGBCW(6500K)			Silver anodised	**SA**		
		IW			(RAL) Powder Coat	**RAL()**		
		2700						
		3500						
		6500						
		RED DMX						
		GREEN DMX						
		BLUE DMX						
EXAMPLE:	**MD302-180**	**IW**		**FMP**		**RAL(9010)**		**ELR**

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