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## **Smart PXL 40 DOT**

HIGH-RESOLUTION SMART 40mm RGB PIXEL DOTS 125MM PITCH



#### **General Information**

- · Auto addressing
- This device will require an external DC power supply (not included) for normal operation

#### **Features**

- 16bit control for ultra-smooth dimming or 8bit control (ONLY with ENTTEC pixel controller) for lower channel count installation
- 125mm Pitch (customisable; min/max length: 50mm/3000mm)
- Supplied in a string of 50 dots with IP rated connectors at each end (length: 6.61m)
- SPXL-8/16 protocol. Refer to <u>www.enttec.com/support/supported-led-pixel-protocols/</u> for list of compatible ENTTEC controllers
- Anodized 6082 aluminium body
- Replaceable diffuser (Dome and Flat)
- Built-in data signal reshaping circuit
- 24V DC input supply voltage
- Suitable for indoor and outdoor use
- IP67 Rated
- 16 AWG copper cabling to reduce voltage drop
- 3-year warranty

## **Specifications**

Specifications						
Item	Value					
Input Voltage	24V DC					
Max. power	1.5 W per dot					
Max. Current	60 mA per dot					
LED Source	6pcs SMD3535					
LED operational life	50.000 hours within the working temperature range					
Lumens lm	No diffuser	DOME	FLAT			
	33	24	29			
Efficacy lm/watt	22	16	19.3			
Housing	Anodized 6082 aluminium body					
IP Grade	IP67					
Protocol	SPXL-8 <sup>1</sup> SPXL-16 <sup>2</sup>					
SPXL-8 Footprint per Dot (8-bit)	3 DMX slots per dot					
	Red	Green	Blue			
SPXL-16 Footprint per DOT (16-bit)		een Green	Blue Blue Coarse Fine			

<sup>&</sup>lt;sup>1</sup> Only available on ENTTEC pixel controller M-Files ID: 5920463

<sup>&</sup>lt;sup>2</sup> Compatible with UCS8903 protocol



Datasheet Smart PXL 40 DOT - 73010

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Pixel ordering	SPXL-8: R-G-B SPXL-16: R-R-G-G-B-B		
Colour Resolution (8- bit)	28x28x28 = 16.7 million (Note 1)		
Colour Resolution (16- bit)	2 <sup>16</sup> x2 <sup>16</sup> x2 <sup>16</sup> = 68 billion (Note 2)		
DMX channel quantity	No. of dots controllable per universe		
	<u>SPXL-8</u> 170 dots	<u>SPXL-16</u> 85 dots	
Beam Angle	120° (clear lens)		
DOT Pitch	125mm (8 dots /m)		
Base Dot Size L x W x H	47 x 57 x 13 mm		
Weight	2.52 kg (string of 50 dots)		
Working Temp	-20°C to +50°C		
Connector gender	In: Male	Out: Female	

## **Connecting SMART PXL DOT**

Use any of ENTTEC Pixel drivers to control the Smart PXL DOT 40. For the latest information visit

https://www.enttec.com.au/product/led-pixel-

#### <u>drivers/ethernet-pixel-controller/</u>

Ensure your selected pixel controller is of a voltage rating that matches your selected Smart PXL DOTs.

Ensure that your pixel controller has been connected in such a way to ensure the data is flowing from the controller down the string of Dots.

### Voltage Drop

Based on 125mm spacing, the advisable maximum length that can be run without incurring in significant voltage drop is 150 dots .

Strings longer than 150 dots will require power to be re injected (refer to Pixel installation sheet for more details).

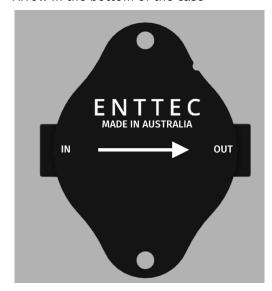
#### DATA DIRECTION

The pixel data in the Smart PXL DOT 40 has to travel in a specific direction. The direction is shown on the following:

- PCB
- Notch in the body



· Arrow in the bottom of the case



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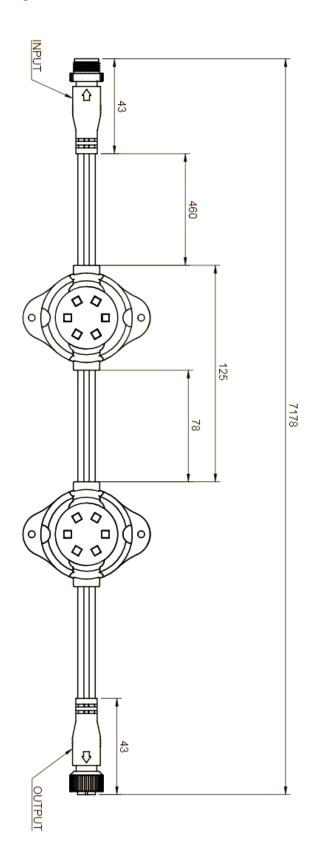
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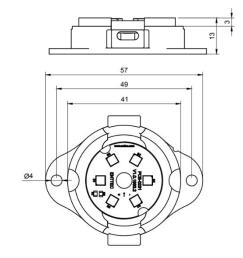
Datasheet

## Physical Dimension Dimensions in mm

String of 50 DOTS

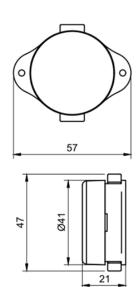


DOT

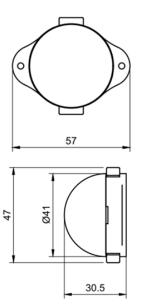


#### **DOT WITH DIFFUSER**

**FLAT** 



DOME

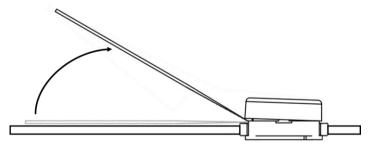


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#### Diffuser Installation

Recommended tool: Pry Tool (PN: 73016)

- Insert the pry tool or appropriate flat head screwdriver between the cable over mould and the diffuser
- Use the over mould as a lever point to lift the diffuser from one side as shown in the diagram below



- Repeat the same process on the remaining cable mount
- · Remove diffuser

### **Ordering Information**

Visit <a href="https://www.enttec.com/product/lights/smart-pxl-dots/">https://www.enttec.com/product/lights/smart-pxl-dots/</a> to shop for DOTS. For any customisation contact the sales team <a href="mailto:sales@enttec.com">sales@enttec.com</a>.

Description	PN
String of 50 DOTs with Dome diffuser	73011
String of 50 DOTs with Flat diffuser	73012

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