ENTTEC



9PDOT3

HI-RES SMART RGB 35mm PIXEL DOTS (24V): 125mm PITCH



General Information

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

Features

- 125mm Pitch
- Supplied in a string of 50 dots with IP rated connectors at each end (length: 6.65m)
- Compatible with Pixie driver, Pixelator Mini and Pixelator (revB only).
- Opal Dome shaped lens
- Easy wall mounting using the ENTTEC 9PDOT3-CLIP mounting clip accessory.
- Built-in data signal reshaping circuit
- 24V DC input supply voltage
- Suitable for indoor and outdoor use
- IP67 Rated
- On-board thermal fuse within each dot
- Thick copper cabling to combat the effect of voltage drop
- 3-year warranty

Specifications

Item	Value				
Input Voltage	24V DC				
Max. Power	1.44 W				
LED Source	6pcs SMD3535				
Lumens	15.19 lm				
Efficacy	10.55 lm/W				
Housing	Powder coated aluminum body.				
IP Grade	IP67				
Protocol	ENTTEC 9PDOT (8-bit) or 9PDOT (16-bit)				
DMX Footprint	3 DMX slots per dot				
per Dot (8-bit)	Red Green Blue				
DMX Footprint per DOT (16-bit)	6 DMX slots per dot				
	Red Red Coarse Fine Blue Blue Coarse Fine Green Green Coarse Fine				

LED Ordering	R-G-B
Colour Resolu- tion (8-bit)	28x28x28 = 16.7 million (Note 1)
Colour Resolu- tion (16-bit)	2 ¹² x2 ¹² x2 ¹² = 68 billion (Note 2)
Beam Angle	120° (opal dome)
Pixel Pitch	125 mm (8 dots per m)
Size	35 mm x 44 mm (each dot)
Weight	1.26 kg (string of 50 dots)
Working Temp	-20°C to +50°C

Note 1:

Number of bits per colour for 9PDOT 8-bit protocol:

8 th bit	7 th bit	6 th bit	5 th bit	4 th bit	3 rd bit	2 nd bit	1st bit
Most							Least
Significant							Significant

Note 2:

Number of bits per colour for 9PDOT 16-bit protocol:

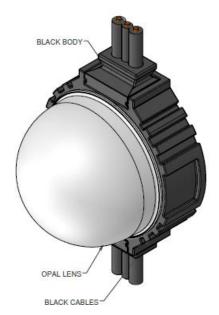
16 th bit	15 th bit	14 th bit	13 th bit	12 th bit	11 th bit	10 th bit	9 th bit
Most							
Significant							
8 th bit	7 th bit	6 th bit	5 th bit	4 th bit	3 rd bit	2 nd bit	1st bit
				4 Le	ast Significa	nt Bits not	used

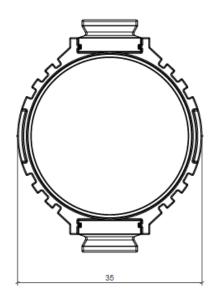
 Holes in the dome allows the DOT proper ventilation and elimination of residual water without affecting it's IP rating.

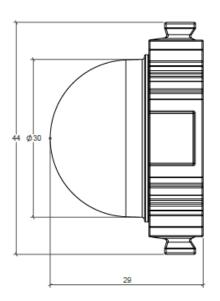
Voltage Drop

- Based on 125mm spacing, the maximum length that can be run without incurring voltage drop issues is 150 dots.
- Strings longer than 150 dots require power to be re-injected.

Physical Dimensions (9PDOT3)

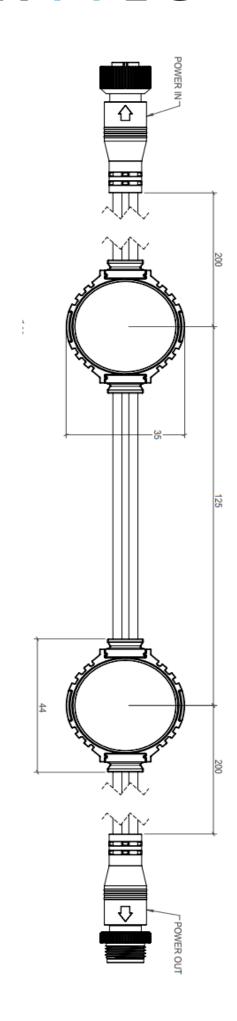




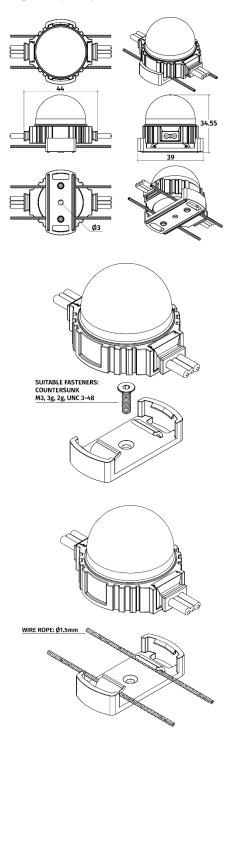


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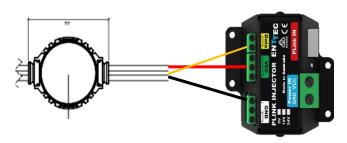
Mounting Clip Specifications



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Connecting to a PLink injector:



Cable	PLink Terminal
Black cable with red strip	VCC+
Thin Black Cable	Data
Thick Black Cable	GND

Ensure your selected PLink is of a voltage rating that matches your selected 9Pdots. Ensure that the PLink has been connected in such a way to ensure the data is flowing from the Plink down the string of Dots.

Note: For use of PLINK system, please refer to the PLINK datasheet on the ENTTEC website.

Ordering Information

ENTTEC 9PDOT3 and related products can be ordered from our website or through your ENTTEC dealer using the following part numbers:

P/N	Description
9PDOT3	HI-RES SMART RGB 35mm PIXEL DOTS (24V): 125mm PITCH

Recommended Products

P/N	Value
9PDOT3-CLIP	9PDOT3 Compatible Mounting Clips
9PDOT-CBL-C	2000mm black cable with Male IP con- nector
9PDOT-CBL-D	2000mm black cable with Female IP connector
70581-ARC	ENTTEC LED Mapper Software Architectural (512 Universes)
70581-PRO	ENTTEC LED Mapper Software Professional (96 Universes)
70581-STU	ENTTEC LED Mapper Software Standard (16 Universes)

Due to continuous improvements and innovations of all ENTTEC products, specifications and features are subject to change without notice.

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