ENTTEC **SMART PXL 40 DOT**

High Resolution Smart 40mm RGB pixel dot. Default String of 20 with 125mm pitch







Robust and reliable, ENTTEC's highindividually-addressable resolution, SMART PXL 40 Dots are designed and made in Australia from marine grade aluminum to withstand the harshest of environments.

Easy to install and configure into any conceivable shape, SMART PXL dots create spectacular, crisp lighting effects while adding a stylish design element to your venue or installation chose between default options and custom

Engineered to take any architectural, commercial or entertainment project to the next level, the SMART PXL range has been created by lighting professionals for lighting professionals.

- 16-bit control for ultra-smooth dimming or option for simulated 8-bit control (ONLY with ENTTEC pixel controllers) for reduced channel quantity
- 125mm default pixel pitch (customizable; min/max length: 125mm/2000mm)
- Default string 20 dots with premium IPrated connectors at each end (length: 3375mm)
- SPXL 16-bit. Refer to www. enttec.com/support/supportedled-pixel-protocols/ for list of compatible ENTTEC controllers
- This product requires an external DC power supply and data source for operation. (not included)

enttec.com 11

SPECIFICATIONS

LED source	6 pcs RGB SMD3535 - Customization options available	
1	No diffuse	
Lumens (lm)	Dome diffu	
	Flat diffuse	
Efficacy lm/watt	No diffuse Dome diffu	
	Flat diffuse	
Control protocol	ENTTEC SPXL-8 / SPXL-16	
SPXL-8 footprint per dot	3 DMX channels/dot	
(8-bit)	Red Green Blue	
SPXL-16 footprint per dot	6 DMX slots/dot Course Fine Course Fine Course Fine	
(16-bit)		
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 ¹⁶ x2 ¹⁶ x2 ¹⁶ = 68 billion (Note 2)	
Dots controllable per	SPXL-8:	170 dots
DMX universe:	SPXL-16:	85 dots
Projected lumen	50,000 hrs (L70) - within the	
maintenance	working temperature range	
Body material	Machined and anodized 6032	
	aluminum body	
Base dot size	47 x 57 x 13 mm	
Dot pitch	Default:125mm (8 dots/m) - Customization options available	
Weight	1.00 kg (string of 20 dots)	
IP rating	IP67	
Operating temperature	-20°C to +50°C	
Heat dissipation (maximum)	1.5 Watts	
Input voltage	24 V DC	
Maximum power	1.6 W/dot (1.4W nominal)	
Maximum current draw	60 mA/dot	
Rated current throughput capacity 10A	10A	
Cable resistance	0.0132 Ohm/m	
Cable thickness	16AWG	
Incoming cable length	Default: 500mm	
(connector to first dot)	Customization options available	
Outgoing cable length	Default: 500mm	
(last dot to connector)	Customization options available	
	Default: AMPHENOL AT Series	
Connector type		tion options available
Commontered	In	Male
Connector gender	Out	Female
	Pin 1	GND
Connector pinout	Pin 2	Data+
	Pin 3	Not Connected
	Pin 4	+24v
	3 Year Ret	urn to Base
Warranty		
	Manufacturer Warranty	

INFORMATION

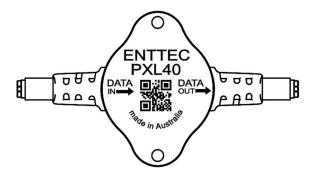
Connecting SMART PXL dots

Use any 24v compatible ENTTEC pixel controller to control the SMART PXL Dot 40. For the latest information visit:

www.enttec.com/range/controls/addressableled-pixel-control/.

Data direction

The pixel data in the SMART PXL 40 Dot must travel in a specific direction for it to function. This direction can be identified through the laser etching on the base of the first and last dot of each string:



Installation

Always refer to this product's installation guide and safety notes before handling this product or specifying it on your project. If unsure consult ENTTEC.

Certification

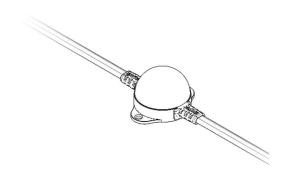


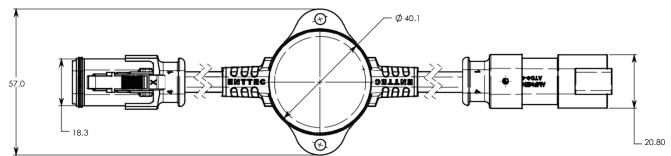
PHYSICAL DIMENSIONS

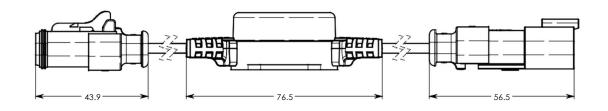
All figures in mm.

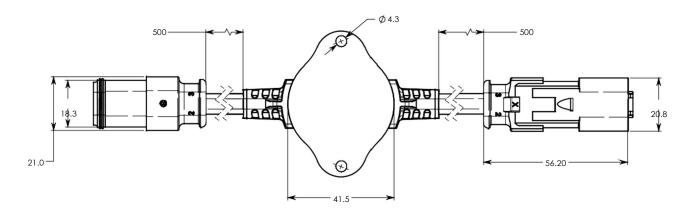
■SMART PXL 40 DOT + AMPHENOL CONNECTORS

The following diagrams depict single dots and connectors.





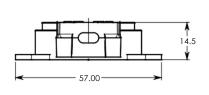




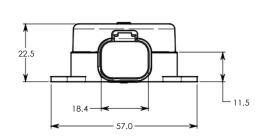
DIFFUSER OPTIONS

Note: Diffusers are non-removable.

NONE



FLAT

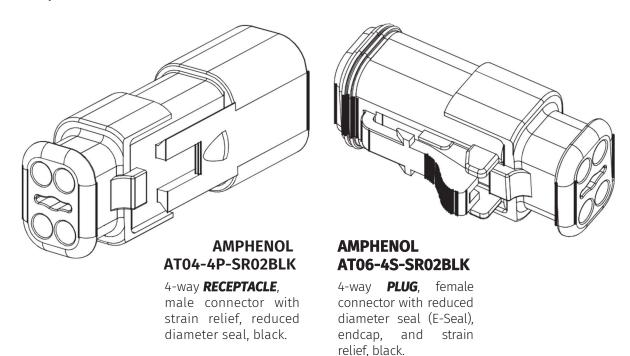


■ DOME

■ DATASHEET

PREMIUM CONNECTORS

For ultimate reliability, strings of SMART PXL 40 ship with Amphenol AT series connectors as default (compatible with DEUTSCH DT systems).



Pin output configurations

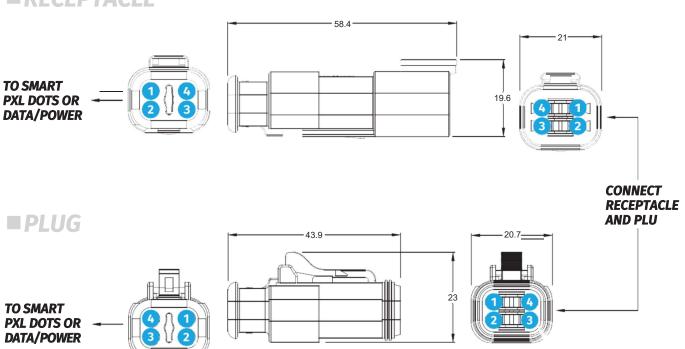








RECEPTACLE



ORDERING INFORMATION

SMART PXL 40 DOTS

Visit website to shop for SMART PXL 40 Dots.

To discuss customization options, contact our friendly sales team via sales@enttec.com.

ITEM	PART NUMBER
SMART PXL 40 Dot no diffuser/ 20 dots per string/ 125mm pitch/ 500mm lead in cable/ 500mm lead out cable/ RGB/ Default Body/ Amphenol AT male input/ Amphenol AT female output	73010-20-125-500-500-RGB-DFT-ATM-ATF
SMART PXL 40 Dot opal dome diffuser/ 20 dots per string/ 125mm pitch/ 500mm lead in cable/ 500mm lead out cable/ RGB/ Default Body / Amphenol AT male input/ Amphenol AT female output	73011-20-125-500-500-RGB-DFT-ATM-ATF
SMART PXL 40 Dot clear flat diffuser/ 20 dots per string/ 125mm pitch/ 500mm lead in cable/ 500mm lead out cable/ RGB/ Default Body / Amphenol AT male input/ Amphenol AT female output	73012-20-125-500-500-RGB-DFT-ATM-ATF



MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

Due to constant innovation, information within this document is subject to change.

■ DATASHEET

enttec.com 15