

PLINK INJECTOR – Datasheet

PLINK to SPI Data Converter for the PIXELATOR System supporting installation for long distances.



The ENTTEC PLINK INJECTOR is purposefully designed as an integral component of the ENTTEC PIXELATOR controllers, perfect solution for large and extensive projects.

Designed for reliability, the PIXELATOR generates robust PLINK data that maintains signal integrity over distances of up to 300 metres via Cat5e/Cat6 cabling. Each PLINK INJECTOR then converts the provided PLINK data into SPI protocols, transmitting signals up to 3 metres to pixel tape or dot fixtures with precision and ease.

PLINK INJECTOR features auto-addressing functionality, eliminating the need for manual configuration—just connect and play.

Available in 3 models to match the voltage of your LED fixtures for optimal wiring and compatibility.

For outdoor applications, the IP PLINK INJECTOR (SKU: 73924) with its durable, weatherproof aluminium housing is also available—ideal for exterior installations.

Note: The number of controllable DMX universes per PLINK INJECTOR is determined by the PLINK data source.

Features

- The PLINK INJECTOR is designed to be integrated with PIXELATOR controllers in a PLINK System.
- Available in 5V, 12-24V and 12-48V DC variants allowing voltage match to a wide range of lighting fixtures for simplified wiring.
- PLINK data extends up to 300 meters over Cat5e/Cat6 cable from PIXELATOR controllers.
- Each PLINK INJECTOR converts provided PLINK data to SPI protocol and drives up to 3m distance connecting to an external DC power supply.
- Small, light and easy-to-install design.
- Scalable system suits large and expansive architecture projects.
- Rising clamp screw terminal connectors for fast, simplistic wiring.
- ABS plastic housing for ideal electrical insulation.

Specification

SKU	5VDC (73546)	12-24VDC (73544)	12-48VDC (73557)
Connectors	1* PLINK Input (RJ45)		
	1* Power In (screw terminal)		
	1* Pixel Output (screw terminal)		
IP Rating	IP20		
LED Indicators	Yes		
Input Data	PLINK data		
Output Data	SPI (configurable from PIXELATOR controller)		
Maximum Throughput Capacity	10A		
Maximum Power Draw	0.25 Watt		
Minimum Lead Wire	OUTPUT VCC/GND	0.5mm ²	
	INPUT VCC/GND	1.5mm ²	
Cooling Method	Convection		
Environmental Operating Temp.	0°C to 50°C 14°F to 149°F		
Environmental Operating Humidity	5- 95% (non-condensing)		
Body Material	ABS Plastic		
Unit Dimensions	83.5*65*31 mm		
Unit Weight	0.059kg / 0.13 lbs		
Shipping Dimensions	125*75*70 mm 4.92*2.95*2.76"		
Shipping Weight	0.105kg / 0.23 lbs		
Shipping Dimensions (Carton of 8)	260*155*140mm 10.24*6.10*5.51"		
Shipping Weight (Carton of 8)	0.84Kg / 1.85lbs		
Warranty	3-year return to base manufacturer warranty		

Certification



UL: Models 73546 (5 VDC) and 73544 (12-24 VDC) are UL Listed and certified as Class 2 power units.

The following electrical specifications apply only when UL certification is required, in accordance with Class 2 power limitations for the United States and Canada.

Electrical Specifications (UL / Class 2)

Input Voltage	5VDC	12VDC	24VDC
Maximum Throughput Capacity	5A	5A	4.16A
	25W	60W	100W

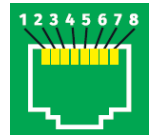
Box Contents

- PLINK INJECTOR

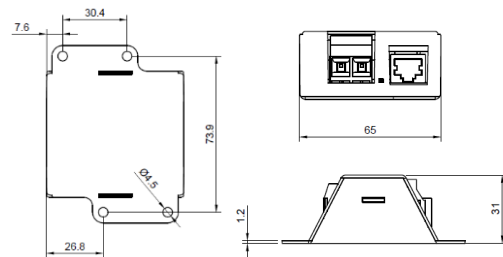
RJ45 Connector

PLINK Data is sent over Cat5/6 cable:

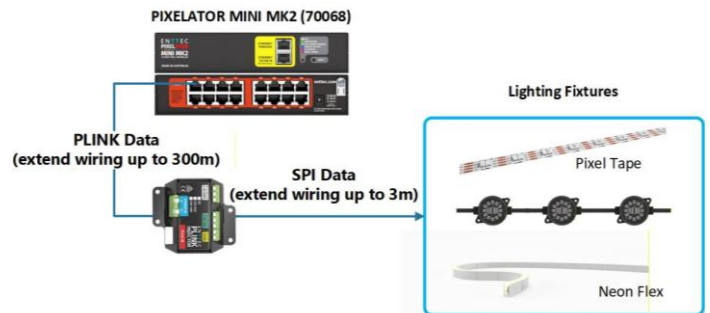
- Pin 1: Data +
- Pin 2: Data -
- Pin 7: Ground



Physical Dimensions



Application Diagram



Safety

- This unit is intended for indoor use only. Do not expose to rain or moisture, doing this will void the warranty.
- Make all the connections before you plug in the mains power.
- Do not remove the cover, there are no serviceable parts inside.
- Never plug this unit into a dimmer pack.

Ordering Information

For further support and to browse ENTTEC's range of products visit the [ENTTEC website](https://www.enttec.com).

Item	SKU
PLINK INJECTOR 5V	73546
PLINK INJECTOR 12V-24V	73544
PLINK INJECTOR 12-48V	73557

enttec.com

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