Overview

The IT-SP8D is an ultra-compact 8 Port DIN Rail DMX Splitter designed for use in permanent installations.

The DMX Splitter is designed to create multiple independent branches of a DMX signal and/or to extend the usable distance of each branch. Each of the splitter's 8 output ports generates an independently protected DMX signal that can travel up to 1,800 feet (550 meters).

The IT-SP8D includes a DMX Pass-Thru port for cascading DMX to multiple splitters and provides a built-in DMX Termination switch.
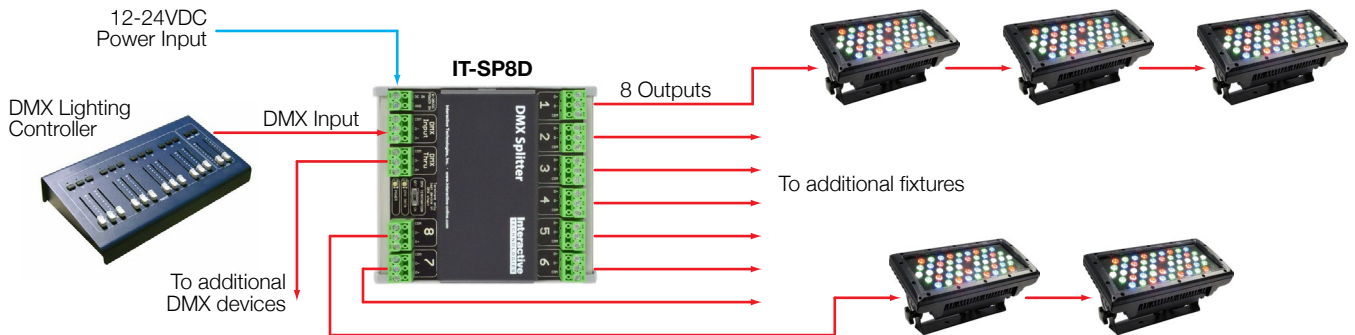
All connections on the IT-SP8D feature removable terminal blocks for easy wiring.

Features

- Compact DIN Rail housing
- 8 Independently protected output ports
- Pluggable terminal blocks for each connection
- DMX Input and DMX Pass-Thru Ports for daisy-chaining multiple splitters
- Transient Voltage Supression (TVS) and Self-Resetting Poly-Switch Fuses for each port
- DMX signal range up to 1,800 feet (550 meters) from each output port
- Compatibility with DMX512 and Color Kinetics® devices
- User-selectable input line termination switch
- Ultra-compact design provides 8 DMX ports in just 20 in^2 (129 cm^2)

Typical Connection

12-24VDC Power Input

IT-SP8D

DMX Lighting Controller

DMX Input

8 Outputs

To additional fixtures

To additional DMX devices

Catalog #:	Project:
Prepared by:	**Date:**

Configuration

The IT-SP8D has a user-selectable configuration switch:

Termination

DMX standards recommend proper termination of the last device in a DMX chain. The DMX Termination Switch should be "On" if the IT-SP8D is the last DMX device on the input DMX network.

CAT5 DMX Wiring

The following chart shows the standard DMX512 usage of each conductor on a CAT5 cable. The Color Kinetics® CAT5 wiring scheme is also listed.

RJ45 Pinout	CAT5 Conductor	DMX Function (Standard)	Color Kinetics Function
1	White/Orange	Data +	Data -
2	Orange	Data -	Data +
3	White/Green	-	Data Common
4	Blue	-	-
5	White/Blue	-	-
6	Green	-	-
7	White/Brown	Data Common	-
8	Brown	Data Common	-

Specifications

Feature	Detail	Description
Power	Input	6-30VDC (2-position removable terminal block)
DMX Ports	Input/Thru/Output	10 (3-position removable terminal block)
	Input Termination	On/Off
Physical	Width	4.17" (106 mm) without side mounting flanges 5.07" (129 mm) with side mounting flanges
	Length	4.82" (122 mm)
	Height	2.00" (51 mm) with DIN Rail brackets 1.22" (31 mm) without DIN Rail brackets
	Weight	7.8 oz. (222 g)
Environmental	Operating Temperature	-40° to 158° F (-40° to 70° C)
	Storage Temperature	-40° to 176° F (-40° to 80° C)
	Humidity	5 to 95%, non-condensing
	Altitude	10,000 feet maximum

Ordering

DMX Splitter

IT-SP8D — 8 Port DIN Rail DMX Splitter (does not include power supply)

Photos

Top

Profile

The IT-SP8D is proudly designed, engineered, and manufactured in the USA.

D0911A 10/10/2017