

Model: 1212
DMX512/RDM Splitter
Installation and Operations Manual



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Product description

The 1212 is an economical bi-directional DMX512/RDM splitter. The power and signal connections are made via wiring to the terminal blocks. These splitters have fully isolated inputs. The twelve outputs are separately driven, but are not isolated from one another.

The 1212 is powered by a low voltage DC power source (9-24 VDC, 10W). Doug Fleenor Design offers a compatible power supply for the 1212 (part number PSDIN-30W-24V), or power can be supplied by the user.

Indicators are provided for power (red), and signal present (green).

Specifications:

All specifications meet or exceed DMX512 requirements

Input circuit:	Protected EIA-485 receiver (LT1785)
Input protection:	Undamaged by up to 60 Volts continuous, 15KV transients
Input signal:	DMX512, DMX512/1990, DMX512-A, or RDM
Signal connectors:	Pluggable Phoenix terminal blocks: three 12-position for the outputs, one 3-position for the input
Termination:	Input and all outputs are terminated per RDM specifications
Power input:	9-24 VDC, 10W, 2-position pluggable Phoenix terminal block
Indicators:	Red POWER LED lights when unit is powered on Green SIGNAL LED lights when DMX512 or RDM is present
Cooling:	Convection cooling, no fan required
Isolation:	DMX512/RDM input is optically isolated to 1,500 Volts
Color:	Black DIN rail tray with white circuit board
Size and weight:	2"h X 4.25"d X 6"w, 10 ounces
Environmental:	0-40 °C (32-104 °F), 10-90% humidity, non-condensing
Mounting:	DIN rail or junction box

Wiring

Cabling used for DMX512 signals to and from the 1212 must be specified for DMX512 usage. Examples include Belden 9829 and Belden 9729 or their equal.

Pin outs for terminal block connectors:

pin 1:	DMX512 common
pin 2:	data -
pin 3:	data +

Mounting

The splitter can be mounted in a DIN rail tray (model 1212-DIN) for easy installation, as well as standard junction box (model 1212-DIN-JBOX without an included power supply or 1212-DIN-JBOX-PS with an included power supply). Each 1212 is six inches in length, allowing for up to six 1212's in a standard 36 inch wide DIN rail enclosure.

For applications requiring rack mounting, please refer to our standard or enhanced splitter product

lines.

LED indicators

There are two LEDs on the 1212. Their functions are described in the table below:

LED	Function
POWER (red)	On when input power is present
SIGNAL (green)	On or flickers when DMX input is present

Splitter operation

The 1212 has one input which is optically isolated from the outputs. The twelve outputs are independently driven, but are not electrically isolated from one another.

There are no settings, jumpers, or adjustments in the 1212. They only need to be connected to a DMX512 or RDM signal source and to dimmers, fixtures, or other “end devices”.

The 1212 splitter works with standard DMX512 signals. In addition, they can be used with RDM compliant equipment. The splitters can operate in bi-directional communication modes as required by the RDM protocol. No settings or adjustments are needed to enable this capability. These splitters are not discoverable devices within the RDM protocol.

Warranty

Products manufactured by Doug Fleenor Design carry a five year parts and labor warranty against manufacturing defects. It is the customer's responsibility to return the product to Doug Fleenor Design (at the customer's expense) for service. Doug Fleenor Design will repair the unit and return it to the customer (at Doug Fleenor Design's expense). If a trip is necessary to the customer's site to solve a problem, the expenses of the trip must be paid by the customer.

1. Note that this warranty covers Manufacturing Defects. It does not include damage due to misuse or abuse. Most non-warranty repairs are made for a fixed \$30.00 fee.

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