15 Channel DMX512 Decoder - Datasheet

MADE IN INDIA

The 15-Channel DMX Decoder is designed to convert DMX512 control signals into analog signals for controlling LED fixtures and other DMX-compatible equipment. With its robust design and versatile features, it's ideal for use in various lighting control applications.

Key features

- **Channel Count:** Provides 15 channels for versatile lighting control.
- **Power Supply:** Operates on a flexible 9-24V DC power range.
- **DMX Input:** Isolated DMX input ensures reliable signal transmission and minimizes interference.
- **Addressing:** Configures easily with DIP switches for straightforward setup.
- **Output Type:** Directly manages RGB LED fixtures or similar devices.
- **Control Signal:** Fully compliant with DMX512 protocol for consistent performance.
- **Mounting:** Can be mounted on DIN rails or surfaces to fit various installations.
- **Protection:** Equipped with short circuit and overload protection for enhanced reliability.
- **Cooling:** Utilizes passive cooling for silent and efficient operation.
- **Channel load:** Supports a maximum load of 2A per channel.

Specification

Connectors	6 x 3 pin screw terminal
	1 x 2 pin screw terminal
	(XLR to 3 pin cable optional)
IP rating	IP20
LED indicators	Yes
Protocol Supported	DMX512
Max. output channels	15
Address Configuration	DIP switch
Input Voltage	9-24V DC
Output Channel load	2A per channel
Body material	ABS plastic
Mounting options	Din-Rail mount
Unit weight	220 gm
Unit dimensions	110 x 140 x 55 mm
Warranty	1 year

DMX Connector pinout

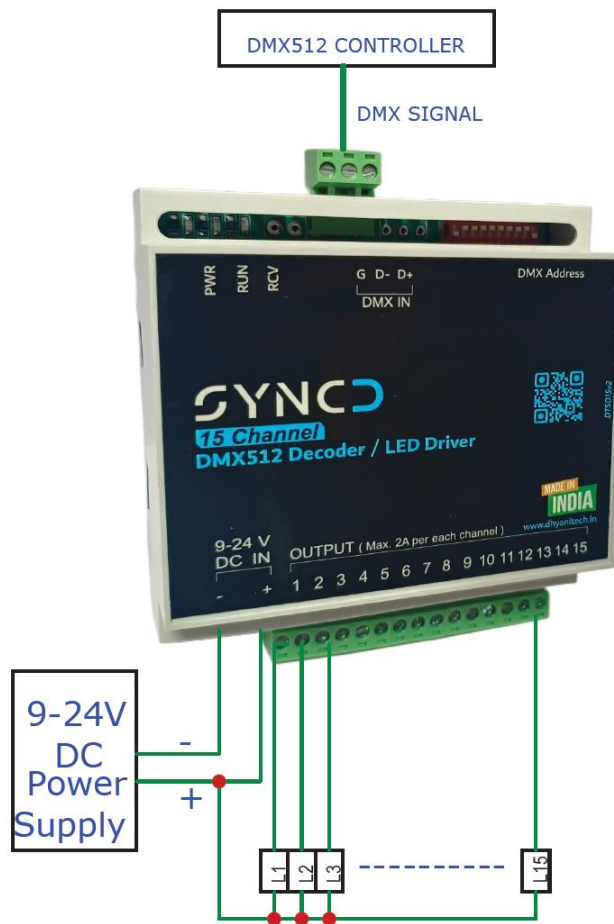| **Pin 1:**	**Pin 2:**	**Pin 3:**
Ground (Common)	Data Negative (-)	Data Positive (+)

Any appropriate 3-pin DMX adapter can be utilized to connect to 3-pin DMX cables or fixtures. Make sure to verify the pinout before connecting to any non-standard DMX connector.

Safety

- Refer to the manuals or documentation of your DMX fixtures and adapters to confirm the pinout configurations.
- The device relies on convection cooling; therefore, ensure it receives adequate airflow to effectively dissipate heat.
- If unsure, use a multimeter to test continuity and confirm the pinout of the cables and connectors.
- Ensure the device is kept away from rain or moisture as it is designed solely for indoor use.
- Avoid removing the cover as it contains no user-serviceable components.
- Make sure your installation is safeguarded against short circuits and overcurrent.
- Verify all connections are complete and fully secured before powering the device.
- Additionally, never connect DMX ground (GND) to an electrical earth connection.

Application layout

(L1 – L15 is DC load, max 2A per channel)

Box contents

1 X 15 Channel DMX512 Decoder / LED Driver (Product ID: DTSD15v2) (SKU: 10804)

* The details in this document may be updated, modified and subject to change.

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