



# DST5-RDM DMX Splitter

## Instruction Manual

Models:

**DST5-RDM-3, DST5-RDM-5**

**DST5-RDM-C**

version 1.0 since 3 February 2020

### **ATTENTION!**

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

## **IMPORTANT SAFETY INFORMATION**

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

### ***Do not operate in an explosive atmosphere!***

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard. Device should be never placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.

## **Mains AC100-255V connection**

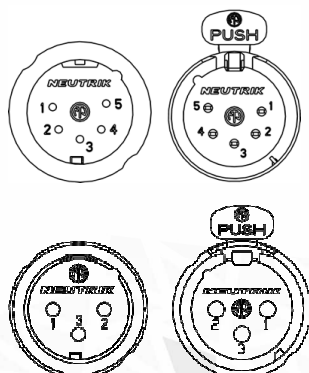
AC power is connected to the splitter via Neutrik PowerCon blue connector. Standard supply is UNISCHUKO lead with Neutrik PowerCon. Always respect the markup of L and N on connectors for correct wiring of Line and Neutral.

## **DMX connection**

DMX connectors are located on one side of the splitter board. These are separated to two groups. First group is wired in ratio 1:1 and marked as DMX input and DMX thru. This line is not optically isolated and when the device is last in line, it should be terminated by the termination resistor by switching the 120ohm switch on. Termination activity is indicated by an LED.

The other group consists of five optically isolated lines marked with letters A-E. Each line has a separate power supply, line driver and the indication of signals D+, D- on both signal lines. These LEDs are active when splitter is retransmitting DMX signal and there is no short circuit between data lines.

In case of short circuit between data pins D+/D- and the CMN pin, the LED connected to the data line is off.



Pin 1	Ground / Common
Pin 2	Data -
Pin 3	Data +

## Front panel:



## Rear panel:



## Device in use / service:

By default, Power LED indicates the device is on main power. When the Power LED is off, check the main power input. When this does not solve the problem, please call service first and then open DST5-RDM and check fuses on the main board.

When the DMX cable is connected to the device, LEDs marked as D+ and D- go on for the side marked as DMX input, thru and this indicates that DST5-RDM is receiving the DMX signal. Speed of light on these LEDs also indicates the refresh rate of DMX signal. Fast blinking – high refresh rate, slow blinking – slow refresh rate.

On the front panel of DST5-RDM, there are outputs A-E, which are retransmitting the input to the optically isolated outputs. If any of data LEDs is off, unplug the signal cable corresponding to this output and check the cable for short circuit between D+ and CMN or D- and CMD lines.

RDM filter switch will filter all RDM commands from the DMX stream.

In case of any problems, do not hesitate to contact us via email at [sales@srs-group.com](mailto:sales@srs-group.com) or call us at +421244681417. Don't worry; we will fix your problems for sure.

## **Technical data**

### **Main input:**

AC 100-255V / 50-60Hz / 5W

### **DMX Input / Output:**

5x USITT DMX512 with RDM support isolated up to 1000V

Maximum of: 5x 32 devices per one splitter output

Cable length: max: 5x 1200m

### **Housing/Size:**

Lightweight Aluminum box with powder coating

230x155x50mm

### **Mounting points:**

Wall-mount ears on both sides of splitter

4 rubber feet on the bottom of device

### **Weight:**

1.2 kg

### **Temperature of use:**

-10 °C ... +45 °C

### **Warranty:**

Life-time warranty

## **DECLARATION OF CONFORMITY**

**According to the guidelines 89/336 EEC and 92/31 EEC:**

**Name of producer:** SRS Group s.r.o.

**Address of producer:** Rybnicna 36/D, SK- 83106 Bratislava, Slovak Republic

*Declares that the product*

**Name of product:** DST5-RDM 5-way DMX/RDM splitter

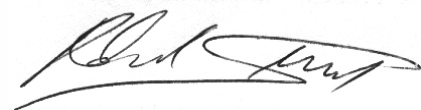
**Type:** DST5-RDM

*Corresponds to the following product specifications:*

**Safety:** EN60065, resp. EN 60950

**EMC:** EN55103-1, resp. EN55103-2

Bratislava, 2 November 2014



Robert Sloboda

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