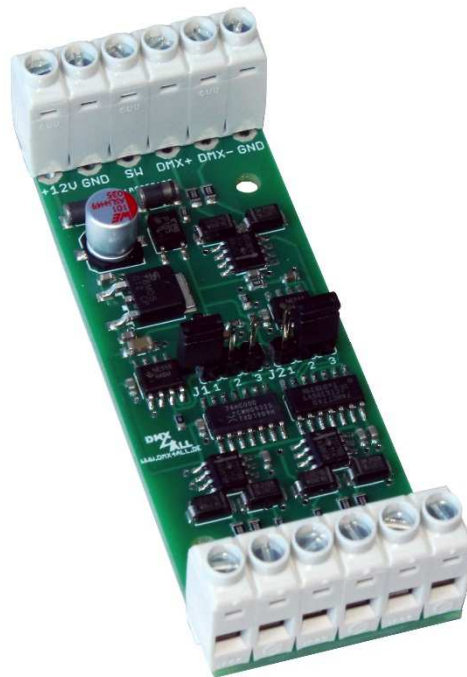


Simple DMX Switch

User manual



DMX [®]
4
ALL



For your own safety, please read this user manual and warnings carefully before installation.

Description

The **Simple DMX Switch** is an easy to configure DMX switch that can be used to switch between two connected DMX input sources.

The Simple DMX Switch has two DMX inputs and one DMX output.

In addition, the Simple DMX Switch has one button input. This input can be used to control the Simple DMX Switch. A switch or push button can be connected to the button input.

In sum the Simple DMX Switch has three operating modes.

It is also possible to control several Simple DMX Switches with only one switch. This makes it doable to switch several DMX universes at the same time with only one switch.

Two status LEDs indicate which DMX signal is currently active.

The top-hat rail housing 350flat for the Simple DMX Switch is available as accessory.

Data sheet

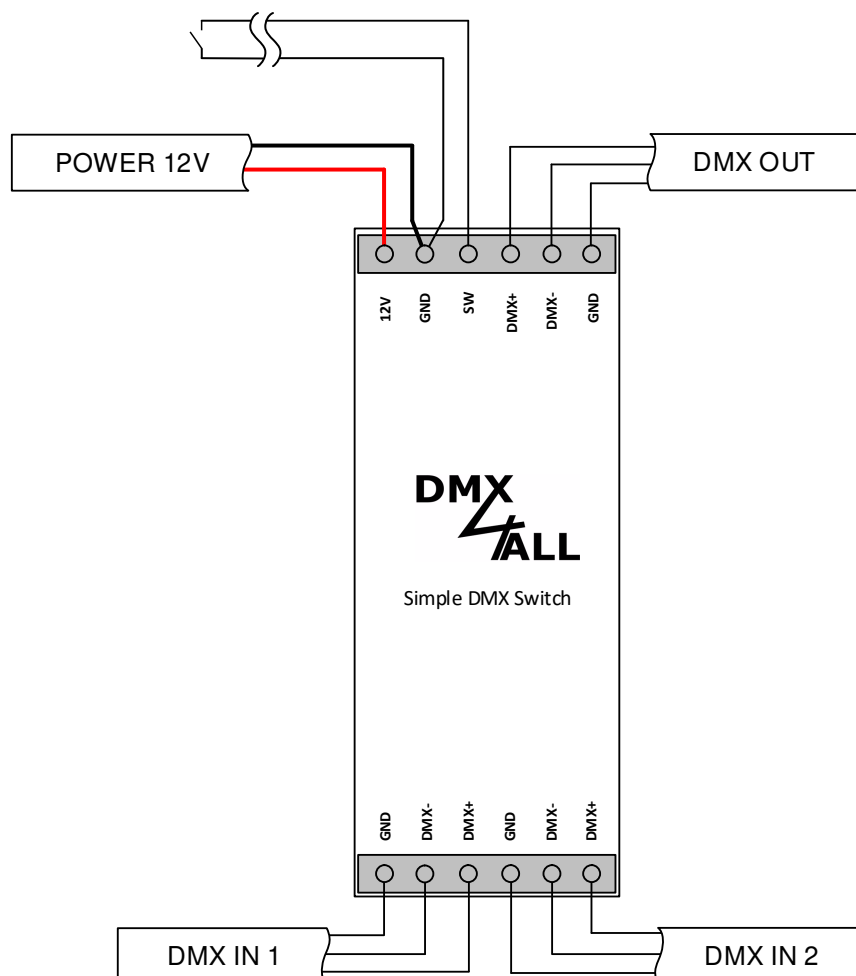
Power supply:	12V DC / 30 mA
Entry:	Button input (SW)
Operation mode settings:	2x Jumper field
Input:	2x DMX IN
Output:	1x DMX OUT
Protocol:	DMX512
Status LED display:	LED green (DMX IN 1) LED yellow (DMX IN 2)
Connection:	Screw terminals
Dimension:	29,2mm x 82mm

Trainee project

The **Simple DMX Switch** is a trainee project and was created during the apprenticeship as an electronics technician for devices and systems.



Connection



Status LEDs

The two status LEDs show which DMX signal is currently being output.

If status LED for DMX IN 1 (green) lights up, DMX signal 1 is output.

If status LED for DMX IN 2 (yellow) lights up, DMX signal 2 is output.



If no status LEDs is on, check the applied voltage.

Operation modes

The Simple DMX Switch can be operated via 3 operating modes. These are adjustable via 2 jumper fields.

Operation modes:

- Auto Mode
- Toggle Mode
- Switch Mode



On the back of the board are small drawings of the jumper settings. So the Simple DMX Switch can be configured without a manual.

In the delivery condition, the Simple DMX Switch is configured within the Auto Mode.

Auto Mode

In the Auto Mode, a DMX signal is outputted preferentially at DMX IN 2.

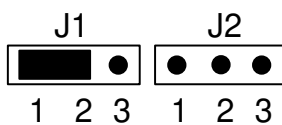
As long as a DMX signal is present at DMX IN 2, it will be output.

If there is no DMX signal at DMX IN 2, DMX IN 1 is switched automatically and the DMX signal of DMX IN 1 is output.



This mode is suitable for a backup system.
As soon as the DMX signal fails at the preferential input, the other input is active immediately.

Jumper settings



Operation Mode

Auto Mode

Jumper 1: 1 and 2
Jumper 2: free



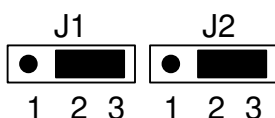
Jumper J2 can also be plugged.
The position of jumper J2 has no influence.

Toggle Mode

With the Toggle Mode, an external button is used to switch between the input signals DMX IN 1 and DMX IN 2.

Pressing the external button switches from DMX IN 1 to DMX IN 2, or rather from DMX IN 2 to DMX IN 1.

Jumper settings



Operation Mode

Toggle Mode

J1: 2 and 3
J2: 2 and 3

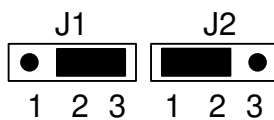
Switch Mode

In the Switch Mode an external switch is used to switch between the input signals DMX IN 1 and DMX IN 2.

If the external switch is open, DMX IN 1 is output.

If the switch is closed, DMX IN 2 is output.

Jumper settings



Operation Mode

Switch Mode

J1: 2 and 3

J2: 1 and 2

Scaling multiple Simple DMX Switches

The application allows to switch multiple DMX universes / DMX signals with only one switch simultaneously.

To switch two or more **Simple DMX Switches** simultaneously, all Simple DMX Switches must be connected to the same power supply and to the same switch.

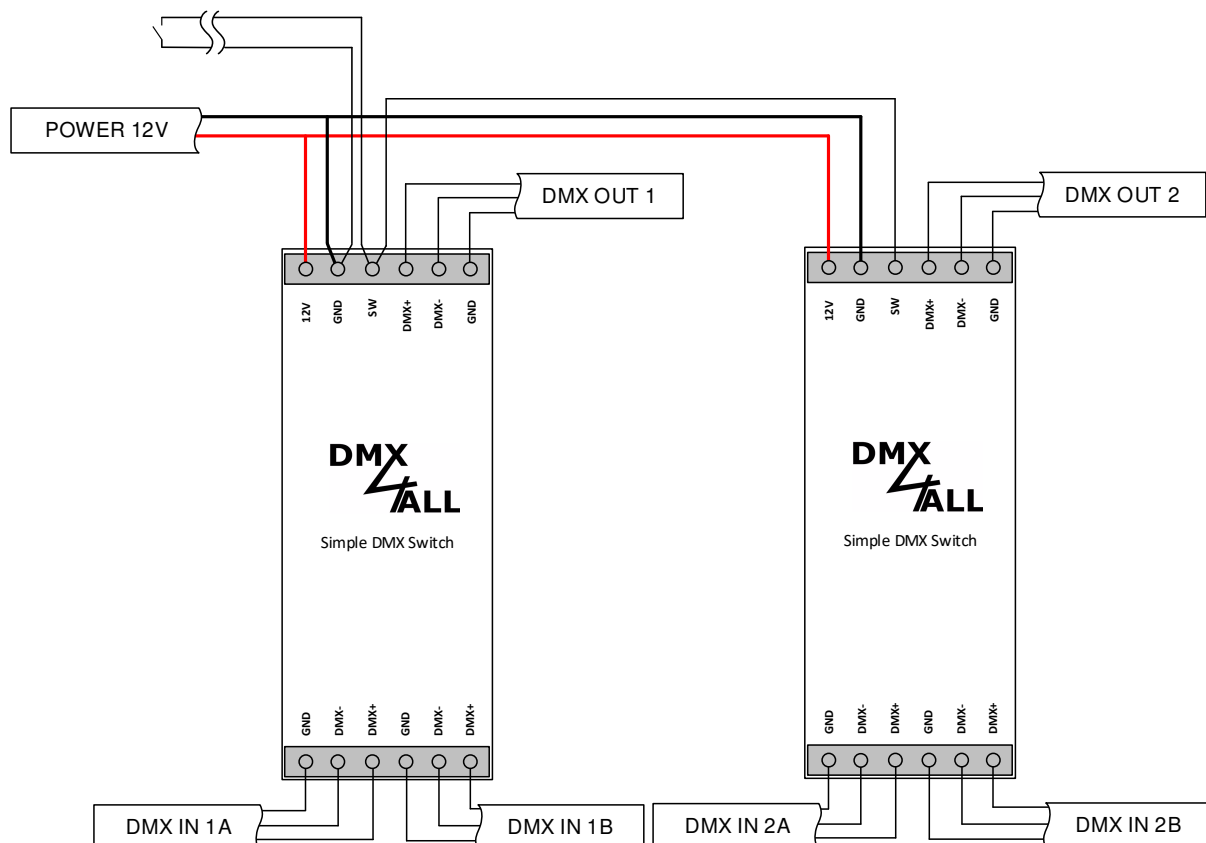
All Simple DMX Switches must also be in the Switch Mode.



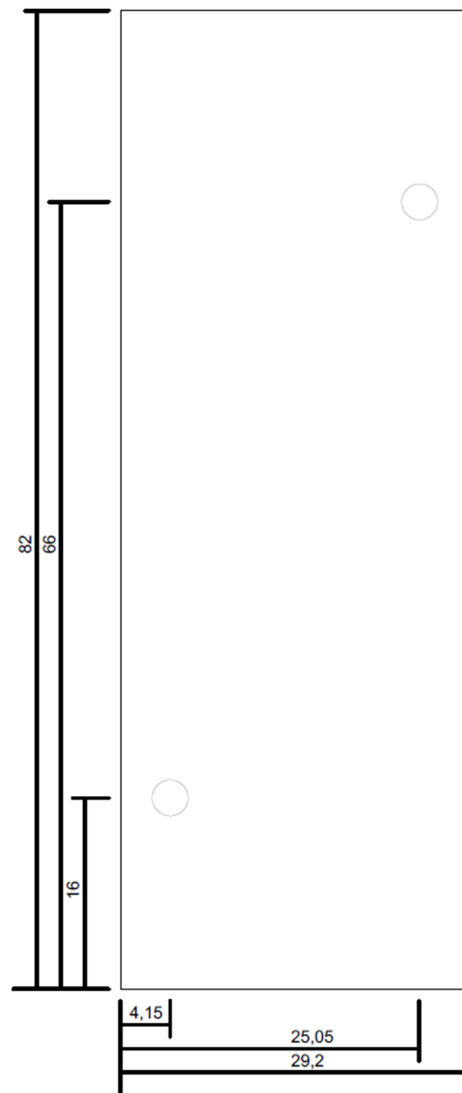
Make sure that all Simple DMX Switch devices are operated **on the same power supply, switch and in Switch Mode**.

Now with the switch it is possible to switch between DMX IN A and DMX IN B.

Example application:



Dimension



all details in mm

Accessories

Top hat rail housing 350flat



Netzteil 12V



CE-Conformity



This assembly (board) is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Disposal



Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning



This device is no toy. Keep out of the reach of children. Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes



You purchased a technical product. Conformance to the best available technology the following risks should not be excluded:

Failure risk:

The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk:

For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk:

The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk:

Any nonstandard use could cause incalculable risks and is not allowed.

Warning:

It is not allowed to use the device in an operation, where the safety of persons depend on this device.



DMX4ALL GmbH
Reiterweg 2A
D-44869 Bochum
Germany

Last changes: 22.12.2021

© Copyright DMX4ALL GmbH

All rights reserved. No part of this manual may be reproduced in any form (photocopy, pressure, microfilm or in another procedure) without written permission or processed, multiplied or spread using electronic systems.

All information contained in this manual was arranged with largest care and after best knowledge. Nevertheless errors are to be excluded not completely. For this reason I see myself compelled to point out that I can take over neither a warranty nor the legal responsibility or any adhesion for consequences, which decrease/go back to incorrect data. This document does not contain assured characteristics. The guidance and the characteristics can be changed at any time and without previous announcement.