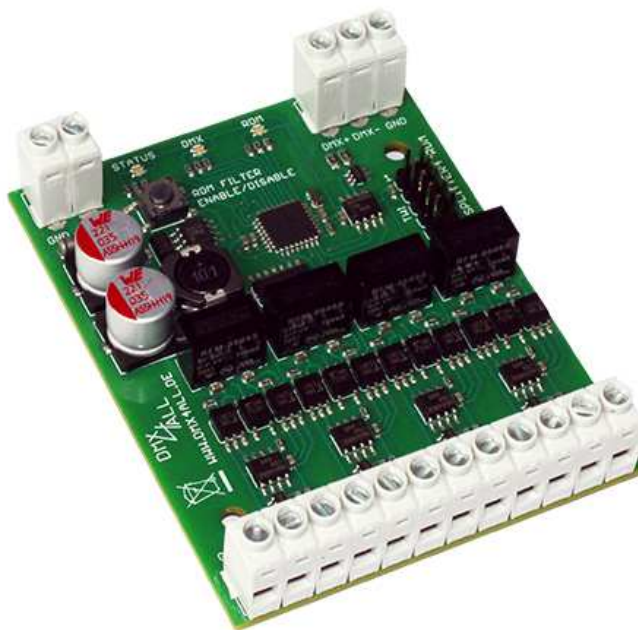


DMX-Splitter 4 RDM

User Manual



DMX [®]
4
ALL



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

Description

The **DMX-Splitter 4 RDM** is a compact DMX and RDM distributor that makes a DMX input signal available again at four galvanically isolated outputs.

4 galvanically isolated outputs

The DMX-Splitter 4 RDM is a compact DMX and RDM distributor that makes a DMX input signal available again at four galvanically isolated outputs.

DMX and RDM

In contrast to pure DMX splitters, the RDM information is passed in both directions in addition to the DMX signal.

RDM filter

When the RDM filter is switched on, all RDM information are filtered out and no longer passed on to the outputs. This can prevent malfunction / flickering of non-RDM-capable devices.

Settings possible via RDM

The DMX-Splitter 4 RDM is recognized as an independent RDM device and settings can be made via RDM.

Extremely light construction

Extremely light DC/DC converters are used for galvanic isolation.

Power supply via one power supply unit

The power supply occurs via one power supply unit. The voltage range is between 8V up to 24V.

RGB-LED-Display

Three RGB LEDs clearly indicate the current operating status.

Top hat rail mounting available

Suitable for the DMX-Splitter 4 RDM the DIN rail housing 700 is available as accessory.

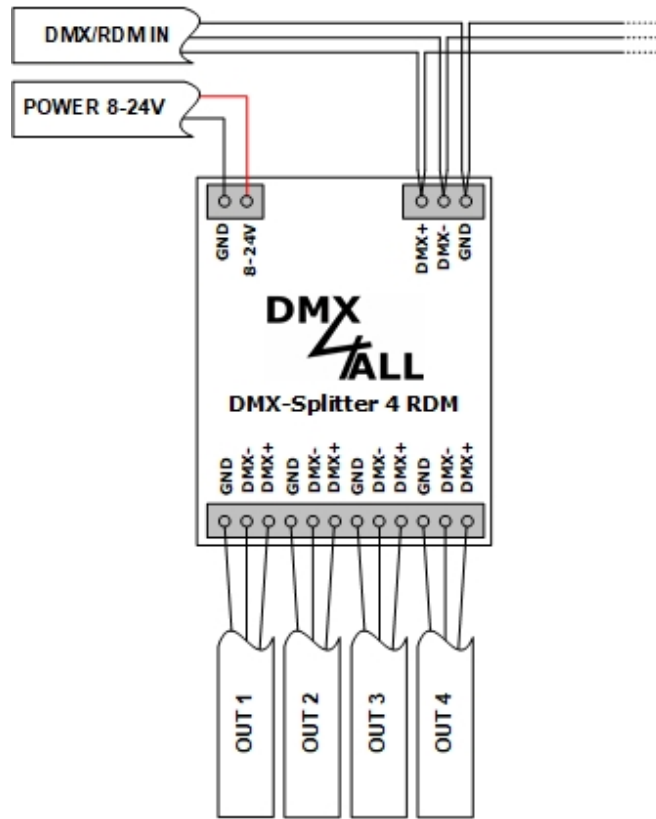
Data Sheet

Power supply:	8-24V DC
Power consumption:	200mA@12V / 130mA@24V (no load)
Protocol:	DMX512 RDM
Output:	4x DMX512 / RDM galvanically isolated
RDM filter:	Can be switched on / off
Connections:	Screw terminals
Dimensions:	64,2mm x 82mm

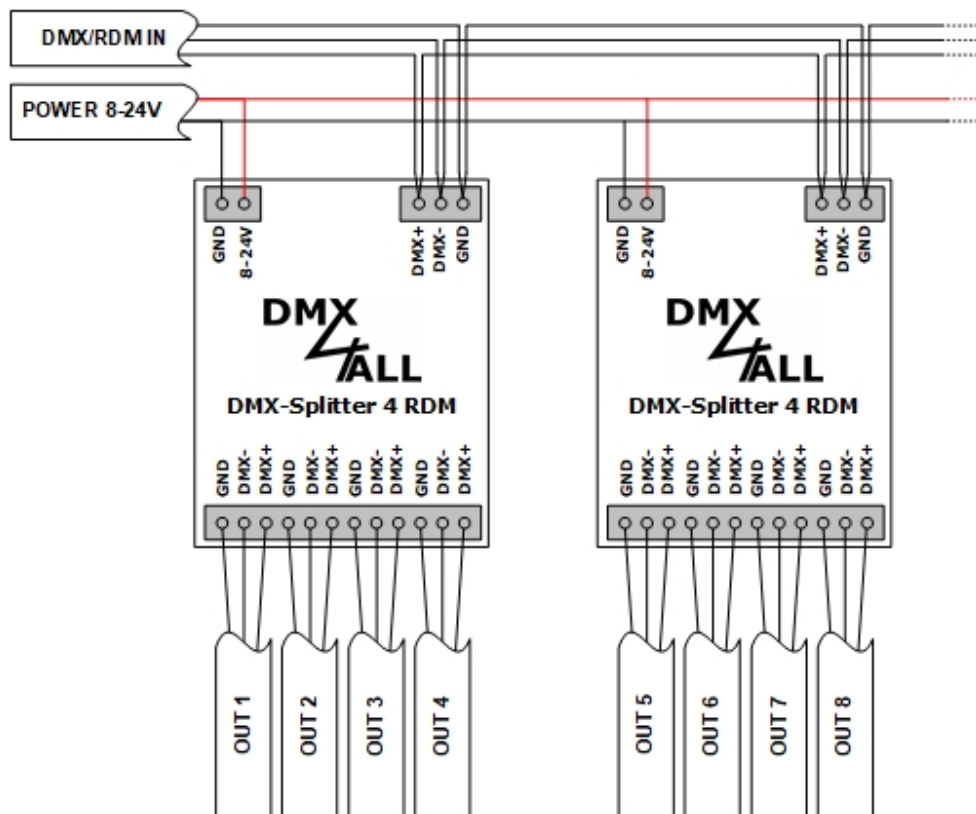
Contents

- 1x DMX-Splitter 4 RDM
- 1x Quick guide german and english

Connection



If more than 4 outputs are needed, several DMX-Splitter 4 RDM can be combined as follows:



LED display

The DMX-Splitter 4 RDM has three RGB display LEDs.

STATUS LED

OFF	Power supply not connected / The display is in MUTE
GREEN	Device ready for use
RED → GREEN → BLUE	Device shows RDM Identify

DMX LED

OFF	The display is in MUTE
RED	DMX signal is not received
GREEN	DMX signal is received
RED → GREEN → BLUE	Device shows RDM Identify

RDM LED

OFF	RDM data does not exist / The display is in MUTE
RED	RDM-Filter ist eingeschaltet
BLUE	RDM data is available
RED → GREEN → BLUE	Device shows RDM Identify

RDM filter

When the RDM filter is switched on, all RDM information are filtered out and no longer passed on to the outputs. This can prevent malfunction / flickering of non-RDM-capable devices.

The RDM filter can only be activated for all outputs.

The RDM filter is switched on and off by briefly pressing the RDM FILTER ENABLE / DISABLE button.

If the RDM filter is switched on, the RDM LED lights up red continuously.
 If the RDM filter is switched off, the RDM LED only briefly lights up blue if RDM data is present.

RDM

RDM is the short form for **R**emote **D**evice **M**anagement.

As soon as the device is within the system, device-dependent settings occur remotely via RDM command due to the uniquely assigned UID. A direct access to the device is not necessary.

This device supports the following RDM commands:

Parameter ID	Discovery Command	SET Command	GET Command	ANSI/PID
DISC_UNIQUE_BRANCH	✓			E1.20
DISC_MUTE	✓			E1.20
DISC_UN_MUTE	✓			E1.20
DEVICE_INFO			✓	E1.20
SUPPORTED_PARAMETERS			✓	E1.20
PARAMETER_DESCRIPTION			✓	E1.20
SOFTWARE_VERSION_LABEL			✓	E1.20
DMX_START_ADDRESS		✓	✓	E1.20
DEVICE_LABEL		✓	✓	E1.20
MANUFACTURER_LABEL			✓	E1.20
DEVICE_MODEL_DESCRIPTION			✓	E1.20
IDENTIFY_DEVICE		✓	✓	E1.20
FACTORY_DEFAULTS		✓	✓	E1.20
DMX_PERSONALITY		✓	✓	E1.20
DMX_PERSONALITY_DESCRIPTION			✓	E1.20
DISPLAY_LEVEL		✓	✓	E1.20

Parameter ID	Discovery Command	SET Command	GET Command	ANSI/ PID
SERIAL_NUMBER ¹⁾			✓	PID: 0xD400
DISPLAY_AUTO_OFF ¹⁾		✓	✓	PID: 0xD401

1) Manufacturer depending RDM control commands (MSC - Manufacturer Specific Type)

Manufacturer depending RDM control commands:

SERIAL_NUMBER

PID: 0xD400

Outputs a text description (ASCII-Text) of the device serial number.

GET Send: PDL=0
 Receive: PDL=21 (21 Byte ASCII-Text)

DISPLAY_AUTO_OFF

PID: 0xD401

Sets the time after which the display is switched off (DISPLAY_LEVEL = 0).

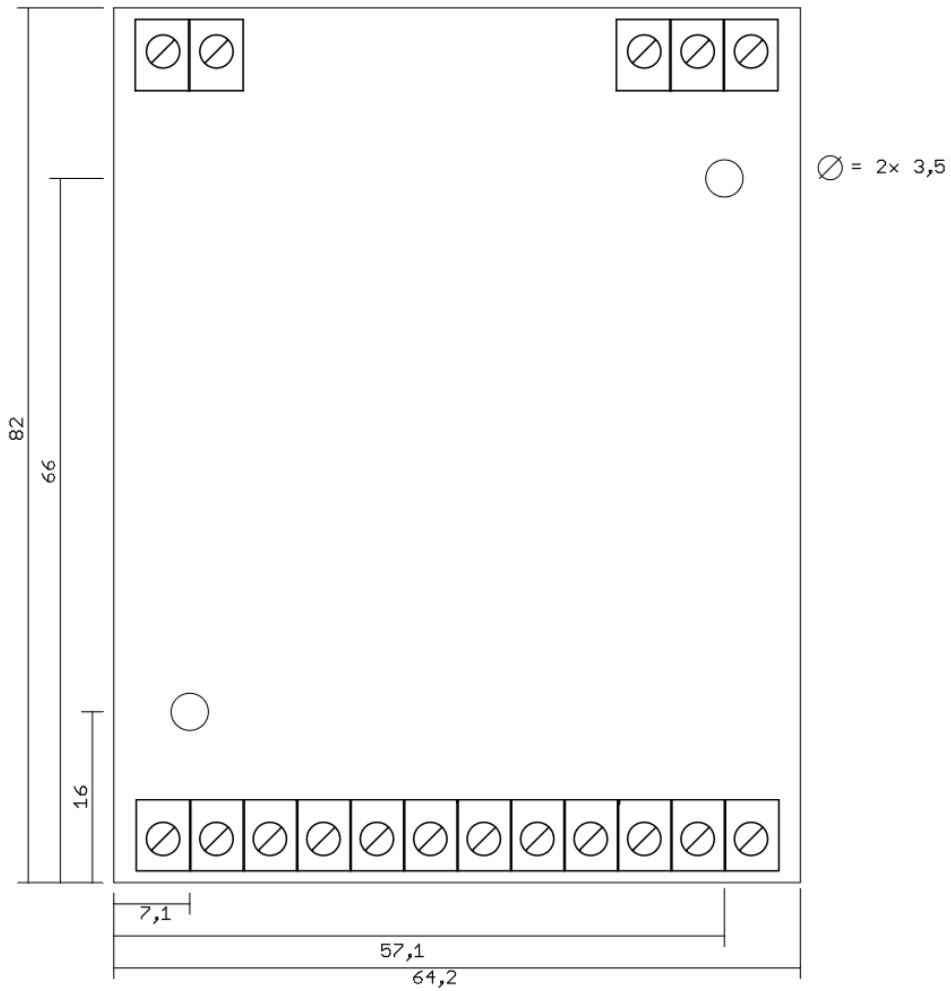
Valid values are:

- 0 - NO AUTO OFF
- 600 - 1 minute
- 1200 - 2 minutes
- 1800 - 3 minutes
- 2400 - 4 minutes
- 3000 - 5 minutes
- 3600 - 6 minutes
- 4200 - 7 minutes
- 4800 - 8 minutes
- 5400 - 9 minutes

GET Send: PDL=0
 Receive: PDL=2 (1 Word)

SET Send: PDL=2 (1 Word)
 Receive: PDL=0

Dimensions



All details in mm

Accessories

Top hat rail mounting 700



Power supply 12V / 20W

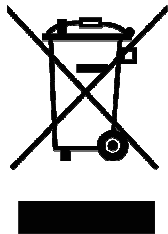


CE-Conformity



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. Conformable 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.



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