SENSA DMX G2 RDM SPLITTER 4CH

4 output DMX RDM splitter for DIN rail mounting

Art. No. 96222781

Presentation

DMX splitter with protective canopy and 4 DMX active outputs and 1 passive output, for DIN rail mounting.
DMX 512 splitter to be mounted on a DIN rail, either in conjunction with the SENSA DMX G2 CONTROLLER KIT, inside the SENSA DMX G2 CONTROLLER BOX IP66 or inside the SENSA DMX G2 RDM SPLITTER 4CH BOX IP66. The splitter provides preventive protection of the DMX controller used in outdoor installation.
It also enables the extension of DMX networks both in distances and number of luminaries. The splitter is configured to let the RDM orders pass through.
Four resistors 120 ohms are included, they must be mounted on each DMX end of lines.
Technical datasheets available on www.thornlighting.com.

WARNING:

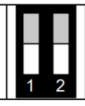
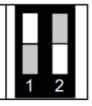
- DO NOT PERMANENTLY REMOVE THE NUT OR THE RUBBER OF CABLE GLANDS.
- THE PRODUCT MUST BE INSTALLED IN A VERTICAL OR HORIZONTAL POSITION WITH THE COVER / LABEL UPWARDS OR VERTICALLY. OTHER POSITIONS ARE NOT PERMITTED.

Design notes

The SENSA DMX G2 RDM SPLITTER 4CH has several functions:

- It is recommended to install the splitter as a protection for the DMX Controller against electrical problems that may occur on the network with the luminaires (surges)
- The splitter's 4 isolated outputs enable the distribution of the DMX signal on 4 independent sub-networks,
- The splitter can be used as a signal repeater for distances exceeding 200m
- The splitter increases the number of luminaries that are connected to one DMX bus, is up to 30 units load on each output, the 'DMX THRU' output repeats passively the DMX signal and can be used to connect an additional splitter in order to increase the overall number of outputs. In that case, the 120 ohm resistor on the product is not needed.
- the splitter is configured by default to be in DMX/RDM operation.
- DMX configuration : By setting DIP 1 and 2 in the OFF configuration, the device is configured as a DMX SPLITTER. With this configuration, the input DMX signal to the DMX Splitter is divided, amplified and regenerated for the 4 output channels. The RDM signal is discarded and is not sent to the outputs.
- DMX/RDM configuration by setting DIP 1 and 2 in the ON-OFF configuration, the device is configured as SPLITTER DMX/RDM. With this configuration, the input DMX/RDM signal to the DMX/RDM splitter is divided, amplified and regenerated for the 4 output channels.
- The RDM messages transfer within a linear network can cross a maximum of 3 RDM splitters cascaded.
- The SENSA DMX G2 RDM SPLITTER 4CH is 5 DMX unit loads.

Product features

Pos.	Description
1	DMX Active Outputs
2	DMX Passive THRU
3	DMX Input
4	SENSA DMX G2 RDM SPLITTER 4CH configuration DMX Operation only  DMX/RDM Operation 
5	Led indicator for power on (blinking), Led indicator for DMX on (fix)
6	12V to 48V DC Power Supply Input

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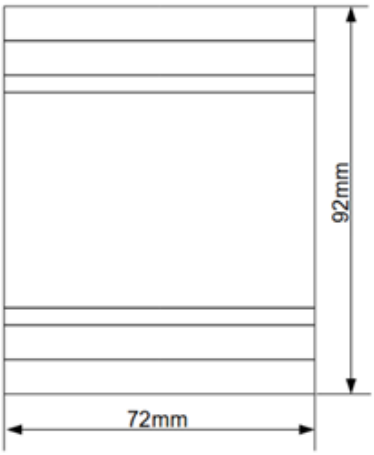
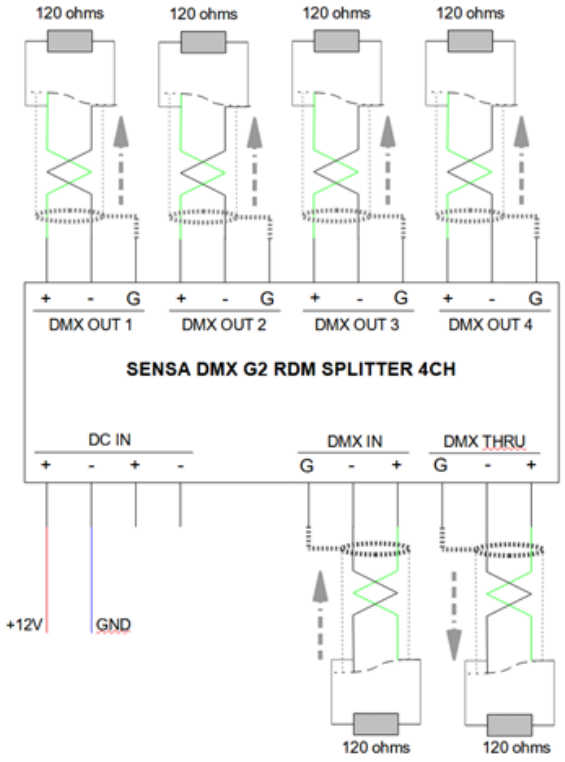
Technical Data



Parameters	Value
Input Voltage	12V to 48VDC Required: SENSA DMX G2 POWER SUPPLY(Art.no 96222781), not supplied
DMX 512 Port	1 input 4 active outputs 1 passive output
LED Indicators	LED indicator for power on (blinking) LED indicator for DMX on (fix)
Connections	Screw connectors for cable 2,5mm² maxi
Dimensions	72 x 92 x 62 mm
Weight	125 g
Operating temperature	-40..60°C

Wiring scheme



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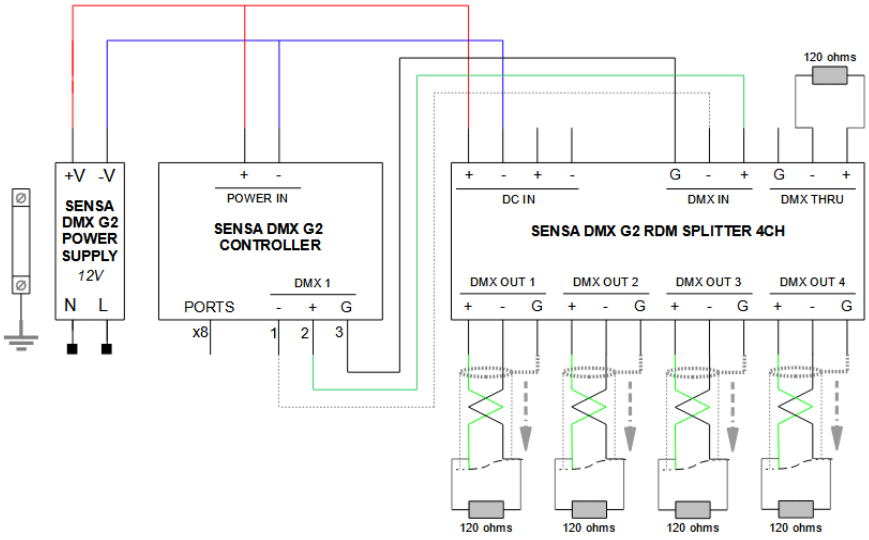
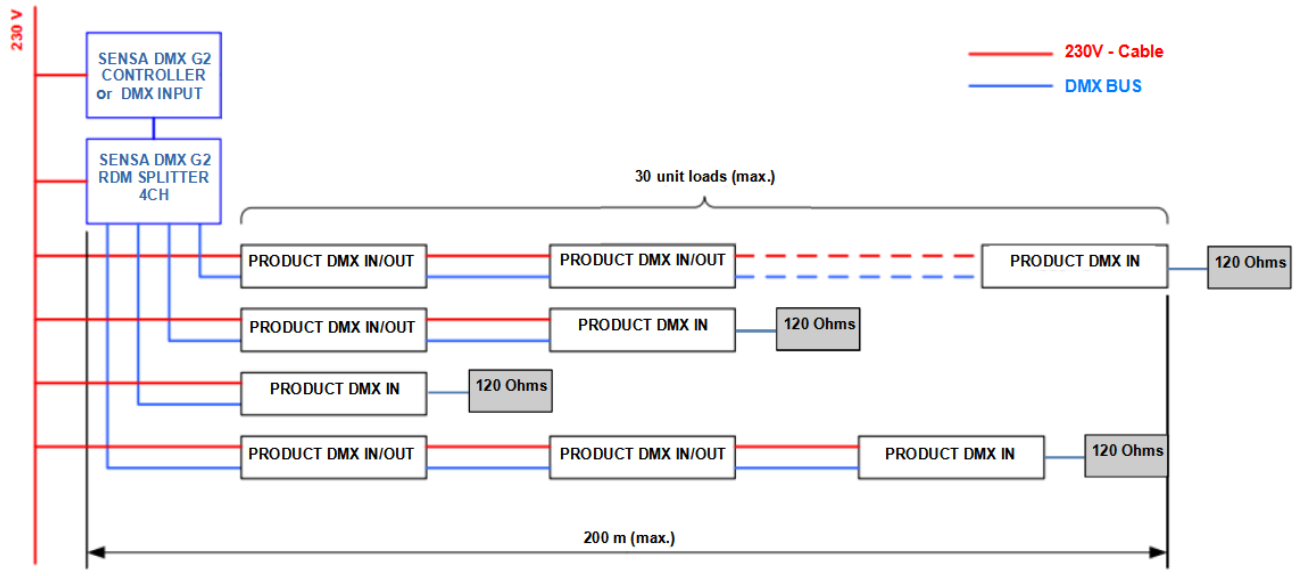
Cabling



Example when mounted into SENSA DMX G2 CONTROLLER BOX IP66 (Article number 96222779) or SENSA DMX G2 CONTROLLER KIT (Article number 96222780) to order apart, and with the SENSA DMX G2 RDM SPLITTER 4CH (Article number 96222781) that must be rotated to simplifies the cabling

Installation example 1 : splitter alone



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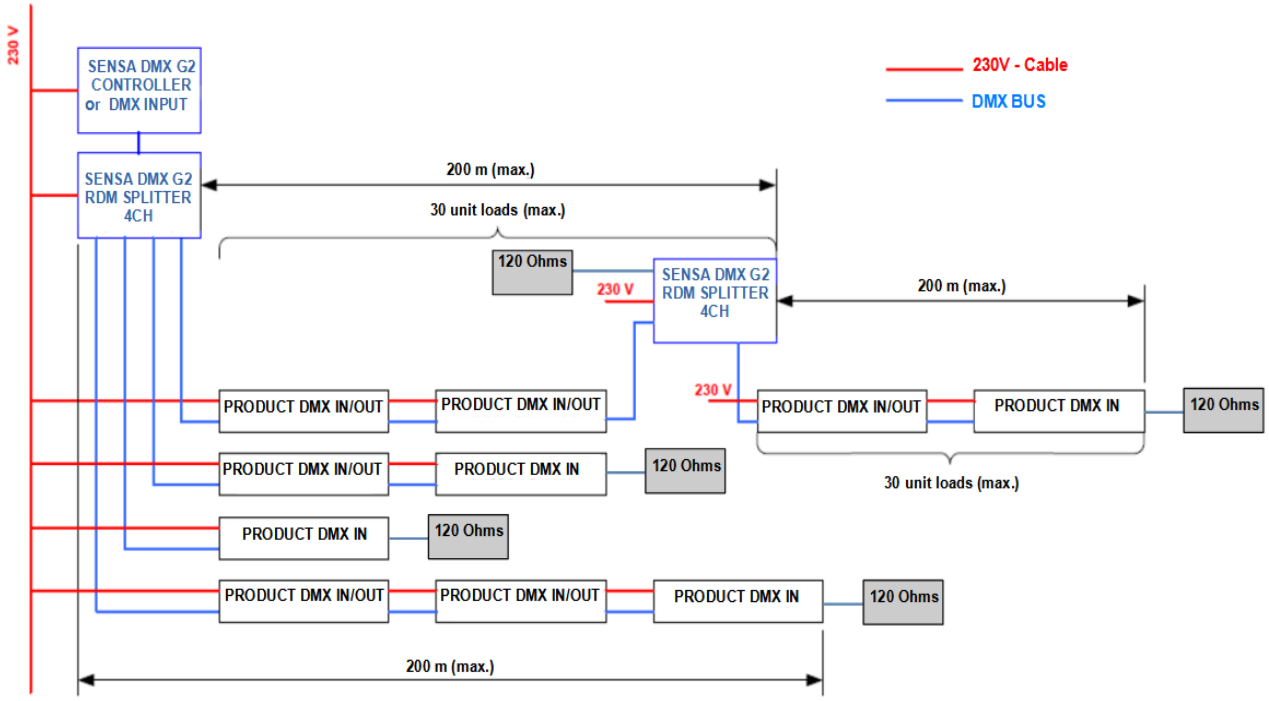
Installation example 2 : splitters in cascade



Warnings

Electrical Installation and General Use:

- *Ensure that the electrical installation complies with current standards and is carried out by a qualified professional.*
- *Follow the installation manual instructions carefully.*
- *The manufacturer cannot be held responsible for damages resulting from non-compliant installation or use.*

II. General Safety Guidelines and Environmental Use:

- *Do not use during a thunderstorm.*
- *Do not connect your product while it is powered.*
- *Avoid performing maintenance operations, as this may void the warranty.*
- *Avoid contact with the equipment in humid conditions.*
- *Avoid disassembling or modifying the equipment.*
- *Do not use the equipment if it shows signs of damage.*
- *Avoid using damaged cables or accessories.*
- *Avoid transporting, covering, or cleaning the device while it is powered.*

III. Electrical Installation and Connection:

- *Ensure electrical protection is compliant with current standards.*
- *Read this technical sheet carefully to be informed about all electrical characteristics and use the equipment for its intended application.*
- *Install the equipment to prevent any risk of physical injury or other damage that may be caused by direct or indirect contact with people or animals.*
- *Check the supply voltage indicated in the documentation.*
- *Protect the device from dust, dirt, rain, humidity, and liquids.*
- *Use non-abrasive cleaning products.*
- *Shield the device from powerful magnetic fields.*
- *Place the device in secure environments, avoiding any tripping hazards with cables.*
- *Adhere to the specified operating temperature indicated in the documentation.*