

PX716

Splitter

DMX-RDM

User manual



Table of Contents

1 Description.....	3
2 Safety conditions.....	4
3 Connectors and control elements.....	5
4 Connection scheme.....	6
5 Dimensions.....	7
6 Technical data.....	8

Manufacturer reserves the right to make modifications in order to improve device operation.

PXM Marek Żupnik sp.k.
Podłęże 654
32-003 Podłęże
BDO register number 000005972

tel. +48 12 385 83 06
mail: info@pxm.pl
www.pxm.pl

Rev.1-2
03.09.2019

1 Description

This signal splitting device, or DMX-RDM splitter, allows for providing branches in extensive DMX-RDM installations. As connecting multiple, series-connected receivers to from a single chain can be difficult, provision has been made in the design of the splitter to create DMX-RDM line branches. Moreover, the PX716 will amplify and regenerate DMX-RDM signal, removing interference effects, as well as eliminating signal reflections on DMX-RDM lines.

The PX716 will split an input DMX-RDM signal into 4 independent branches. Galvanic (optic) isolation is provided between individual outputs themselves as well as from the input, and the outputs are adequately amplified, which ensures proper operation of the entire installation.

The device supports the RDM protocol. A maximum of four splitters can be connected in a cascading arrangement.

Splitter has a metal housing. Additional mounting kits are available for installing a single PX716 unit in a RACK system, two units side by side in a RACK system, or for suspending a PX716 from e.g. a truss.

The PX716 is designed to run from 230V AC mains.

2 Safety conditions

The PX716 is a device powered directly from power grid 230V, what may result in electric shock in case of not following safety rules. During its installation and use the following rules must be strictly observed:

1. Installation of the device should be carried out by a person with appropriate qualifications in accordance with this document.
2. The electrical outlet to which the splitter is connected have to be linked to a working protective installation (3-wire installation).
3. Protect the power cord from mechanical and thermal damage.
4. In case of damage the power cord, cable, replace it with the same technical data.
5. Do not connect the device to the power supply with a damaged (cracked) housing.
6. Any repairs that require the housing to be remove may only be performed with the power off.
7. Splitter should be strictly protected against contact with water and other liquids.
8. All sudden shocks, particularly dropping, should be avoided.
9. The device cannot be used in places with temperature lower than +2°C or higher than +40°C.
10. The device cannot be turned on in places with humidity exceeding 90%.
11. Use only a slightly damp cloth for cleaning – the splitter must be completely disconnected from the power supply at this time.

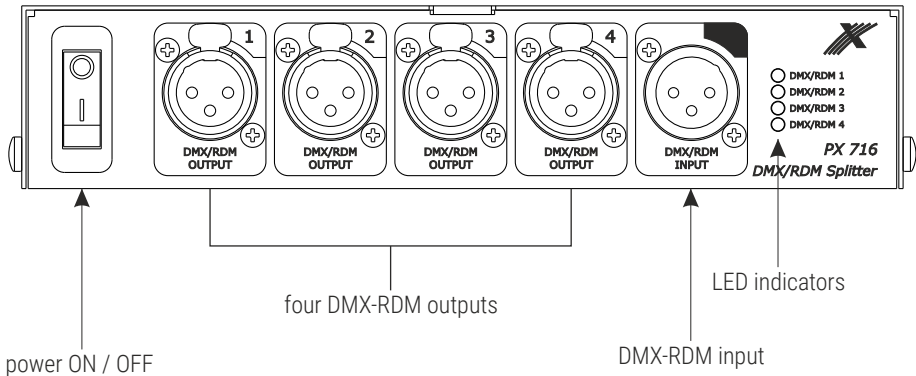
3 Connectors and control elements

The PX716 incorporates four DMX-RDM outputs, one DMX-RDM input, and several diode indicator lights.

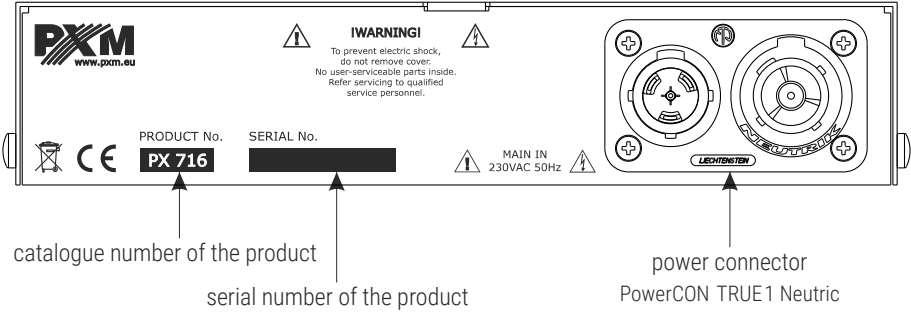
The indicator diodes on the front panel provide information on the status of the unit:

- **glowing steadily** indicates that the splitter is in idle mode
- if the diodes blink fast, at an interval of **125 ms** – the splitter is receiving an RDM packet
- blinking with a **half-second** interval – a particular port is transmitting a DMX signal

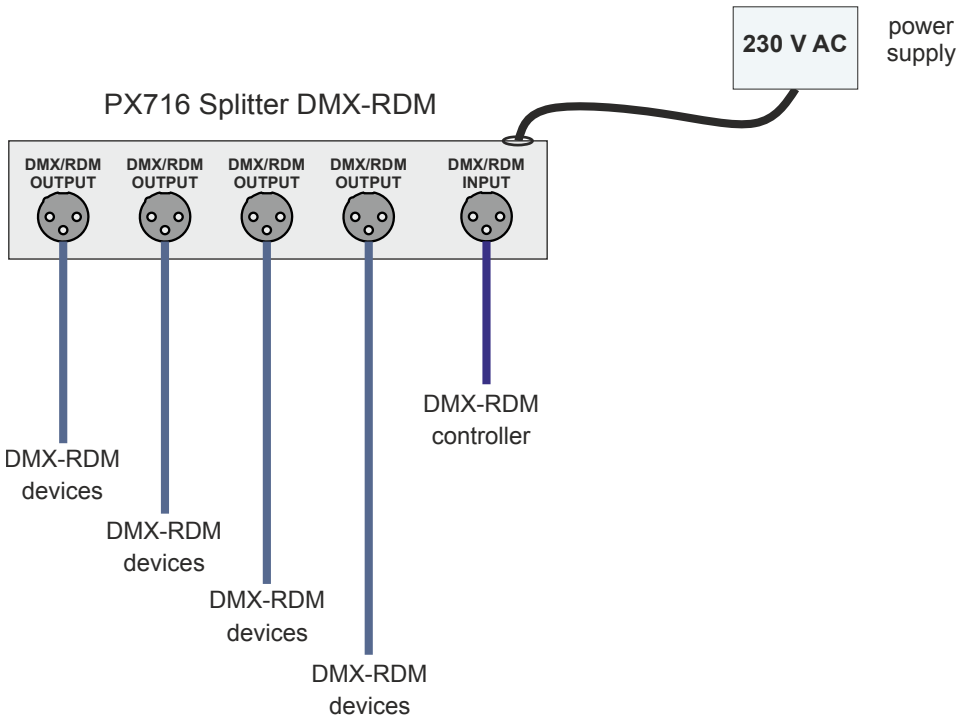
THE FRONT OF THE DEVICE



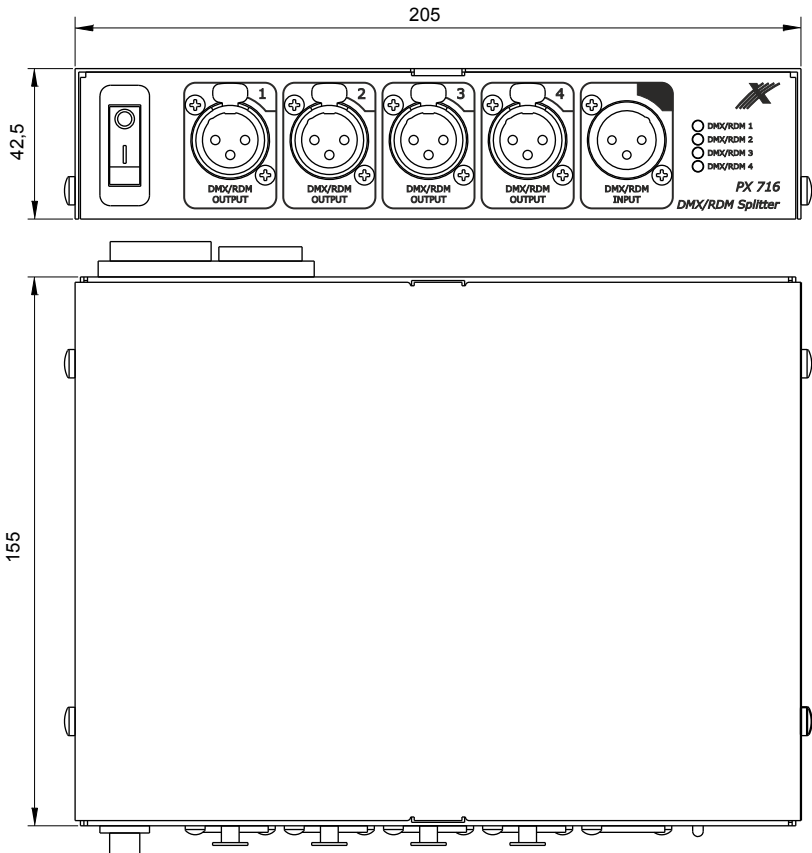
THE REAR OF THE DEVICE



4 Connection scheme



5 Dimensions



6 Technical data

type	PX716
DMX-RDM input / output lines	1 / 4
DMX line optical isolation	yes
overvoltage protection	yes
input / output insulation breakdown voltage	>1000V
DMX signal cable type	shielded twisted pair
data cable gauge	22 or 24 AWG
data cable impedance	120 Ω
max. length of a signal cable between devices	500m (for 22 AWG) or 300m (for 24 AWG)
max. number of devices on a single DMX output line	32
DMX output	3-pin locking XLR or 5-pin locking XLR
power supply connector	PowerCON TRUE1 Neutrik
additional options	mounting in a RACK system
power supply	230V AC
power consumption	5W
weight	0.9kg
dimensions	width: 205mm height: 42,5mm depth: 155mm

DECLARATION OF CONFORMITY

PXM Marek Żupnik spółka komandytowa
Podłęże 654, 32-003 Podłęże

we declare that our product:

Product name: Splitter DMX-RDM

Product code: PX716

meets the requirements of the following standards, as well as harmonised standards:

PN-EN IEC 63000:2019-01

EN IEC 63000:2018

PN-EN 62368-1:2015-03

EN 62368-1:2014

PN-EN 61000-4-2:2011

EN 61000-4-2:2009

PN-EN IEC 61000-6-1:2019-03

EN IEC 61000-6-1:2019

PN-EN 61000-6-3:2008

EN 61000-6-3:2007

and meets the essential requirements of the following directives:

2011/65/UE DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
Text with EEA relevance.

2014/30/UE DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)
Text with EEA relevance.

2014/35/UE DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.


Marek Żupnik spółka komandytowa
32-003 Podłęże, Podłęże 654
NIP 677-002-54-53



mgr inż. Marek Żupnik.