PX716

Splitter DMX-RDM

MANUAL

TABLE OF CONTENTS

The manufacturer reserves the right to change the operation and handling of the device in order to improve the product.

Ver. 1.1

PXM Marek Żupnik spółka komandytowa
Podłęże 654
32-003 Podłęże

tel.: 12 385 83 06
fax: 12 626 46 94
E-mail: info@pxm.pl
Internet: www.pxm.pl

1. GENERAL INFORMATION

DMX-RDM signal splitter

This signal splitting device, or DMX-RDM splitter, allows for providing branches in extensive DMX-RDM installations. As connecting multiple, series-connected receivers to form 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 RDM-DMX 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 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 PX716 supports the RDM protocol. A maximum of four splitters can be connected in a cascading arrangement.

The PX716 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 230 V AC mains.

2. SAFETY CONSIDERATIONS

The PX716 is a device powered directly from power grid 230 V, 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 switch 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 and certificates.
5. For connecting devices to the Splitter use only 3-wire cables with cross-section of not less than 1.5 mm.
6. Connection of DMX signal can only be made with shielded conductor.
7. All repairs and connections of outputs or DMX signal can only be made with cut off power supply.
8. PX716 should be strictly protected against contact with water and other liquids.
9. All sudden shocks, particularly dropping, should be avoided.
10. The device cannot be turned on in places with humidity exceeding 80%.
11. The device cannot be used in places with temperature lower than 2°C or higher than 40°C.
12. Clean it with damp duster only.

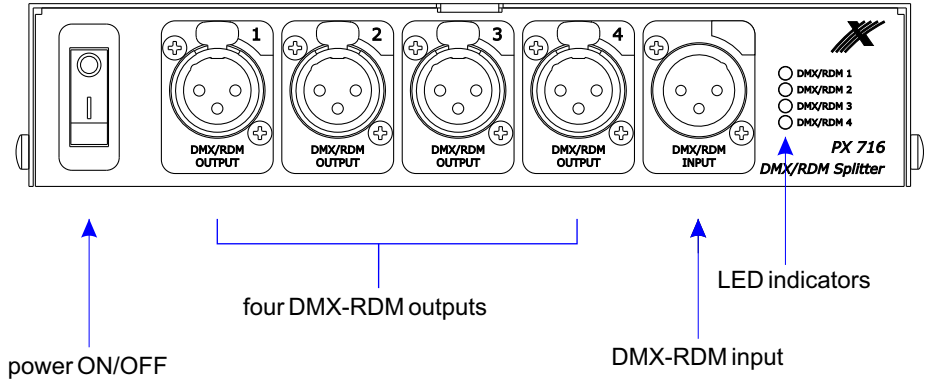
3. SPLITTER DESCRIPTION

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

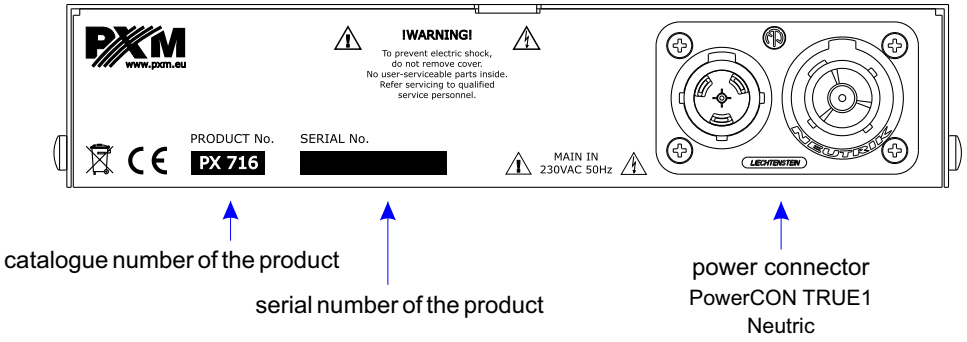
The indicator diodes on the front panel provide information on the status of the unit:

- **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:

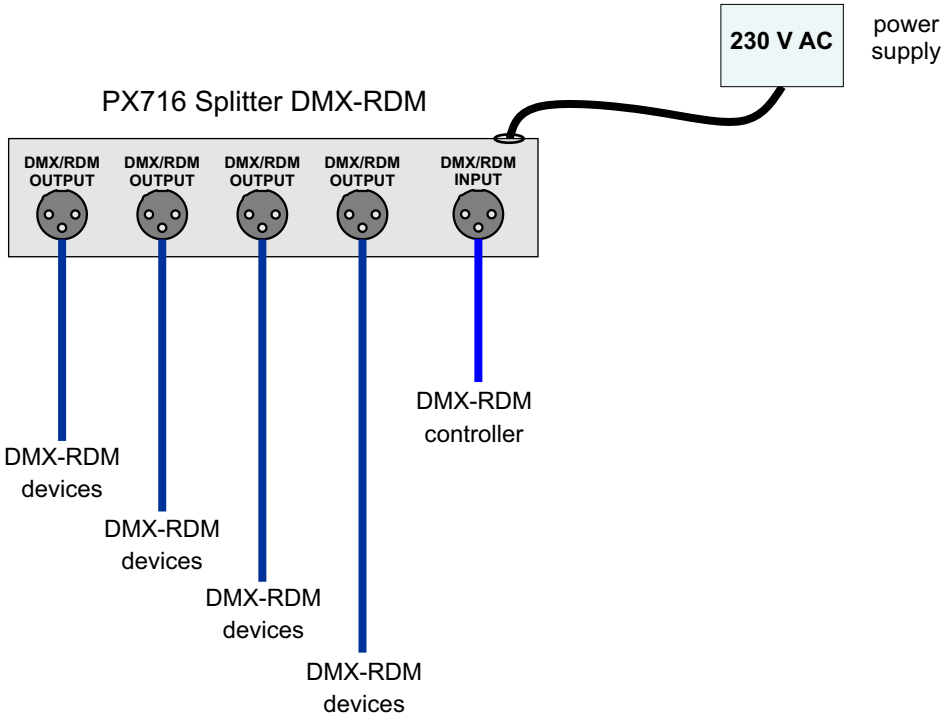


THE REAR OF THE DEVICE:



4. CONNECTION SCHEMATIC

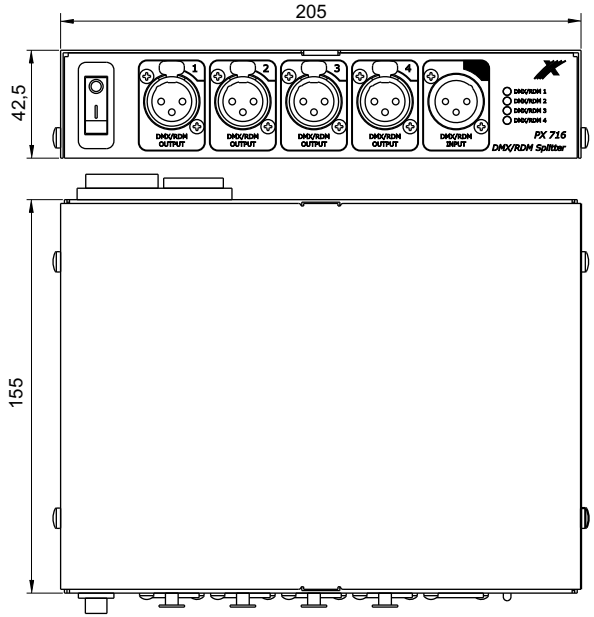
Example connection arrangement for a single splitter:



5. TECHNICAL DATA

Type:	PX716
DMX-RDM INPUT / OUTPUT lines:	1 / 4
DMX line optical isolation:	yes
Overvoltage protection:	yes
INPUT / OUTPUT insulation breakdown voltage:	>1000 V
DMX signal cable type:	shielded twisted pair
Data cable gauge:	22 or 24 AWG
Data cable impedance:	120 Ω
Maximum length of a signal cable between devices:	500 m (for 22 AWG), 300 m (for 24 AWG)
Maximum number of devices on a single DMX output line:	32
DMX output:	a 3-pin or a 5-pin XLR receptacle
Power supply connector:	PowerCon Neutrik
Additional options:	mounting in a RACK system: a single unit: (**D357-H1**), a pair: (**D357-H2**)
	attaching to a truss: suspension bracket (**D357-H3**)
Power supply:	230 V AC
Power consumption:	5 W
Weight:	0,92 kg
Dimensions:	Width: 200 mm
	Height: 42,5 mm
	Depth: 135 mm

6. DIMENSIONS



Podłęże 654
32-003 Podłęże
tel: 012 626 46 92
fax: 012 626 46 94
e-mail: info@pxm.pl
http://www.pxm.pl

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**

smeets the requirements of the following standards as well as harmonised standards:

PN-EN 50581:2013,	**EN 50581:2012**
PN-EN 60065:2015-08,	**EN 60065:2014**
PN-EN 61000-4-2:2011,	**EN 61000-4-2:2009**
PN-EN 61000-6-1:2008,	**EN 61000-6-1:2007**
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 on the use of certain hazardous substances in electrical and electronic equipment.

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 and repealing Directive 2004/108/EC.

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 Text with EEA relevance and repealing Directive 2006/95/WE.

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

Podłęże, 09.06.2017 mgr inż. Marek Żupnik.