

PX736

# DMX Splitter 2/10

User manual



# Table of Contents

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

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

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Rev.1-1  
21.01.2020

# 1 Description

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PX736 allows for providing branches in extensive DMX installations. Connecting in series multiple receivers in one line may be hard. Applying splitter in the topology allows to create branches on DMX line. Moreover, the PX736 will amplify and regenerate DMX signal, removing interference effects, as well as eliminating signal reflections on the line.

Using PX736 Splitter it is possible to split two DMX input signal into 10 independent branches. You can also assign either input (A or B) to each output, thus modifying the system topology.

Galvanic isolation is provided between individual outputs themselves as well as from the inputs, and the outputs are adequately amplified which ensure proper operation of the entire installation.

The PX736 Splitter is manufactured in a metal housing adapter for mounting in the RACK system and is powered by 230V AC mains voltage.

## 2 Safety conditions

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The PX736 is a device powered directly from power grid 230V AC, 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.
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

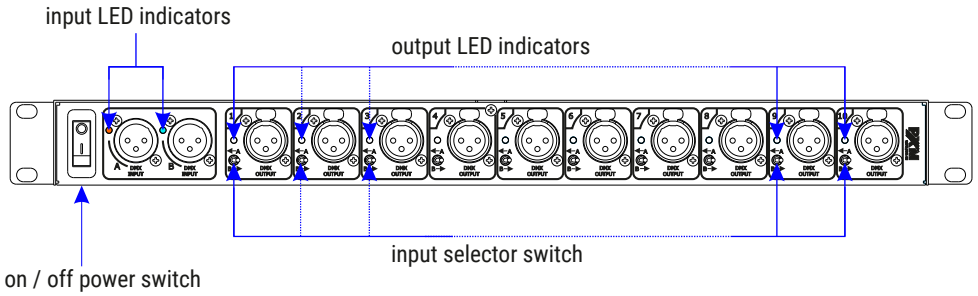
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PX736 is equipped with two DMX input, ten DMX outputs, signaling diodes and input selection switches.

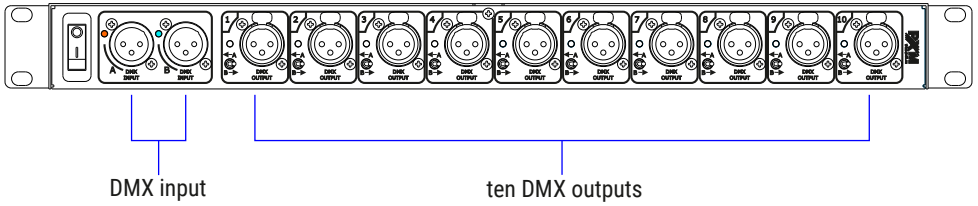
The indicator diodes on the front panel provide information on the status of the unit:

- when the splitter is turned on, input diodes A and B **flash twice**
- when a DMX signal is present, the input diodes **flash every 0.5 second**
- the output diodes emit **steady orange light** if input A is assigned to a given output, and steady **blue** light if input B is assigned

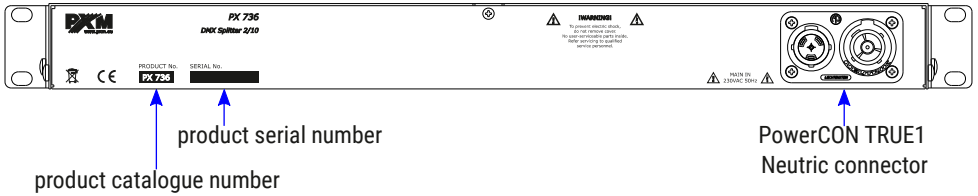
## FRONT PANEL OF THE DEVICE – indicator diodes, switches and power



## FRONT PANEL OF THE DEVICE – socket description



## REAR PANEL OF THE DEVICE

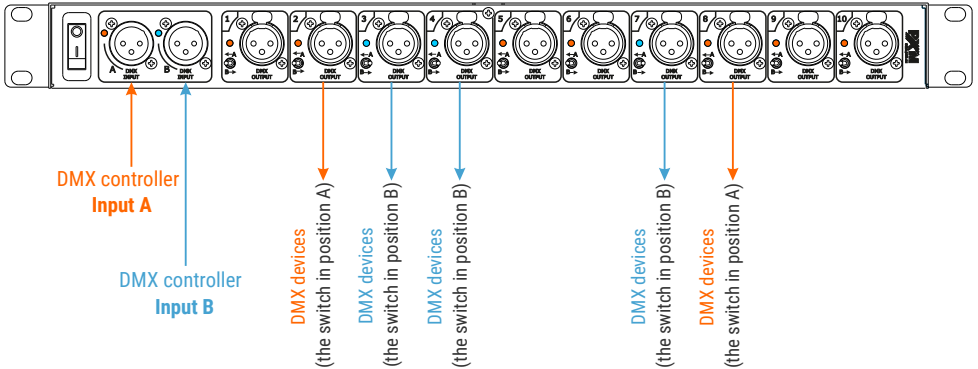


# 4 Connection scheme

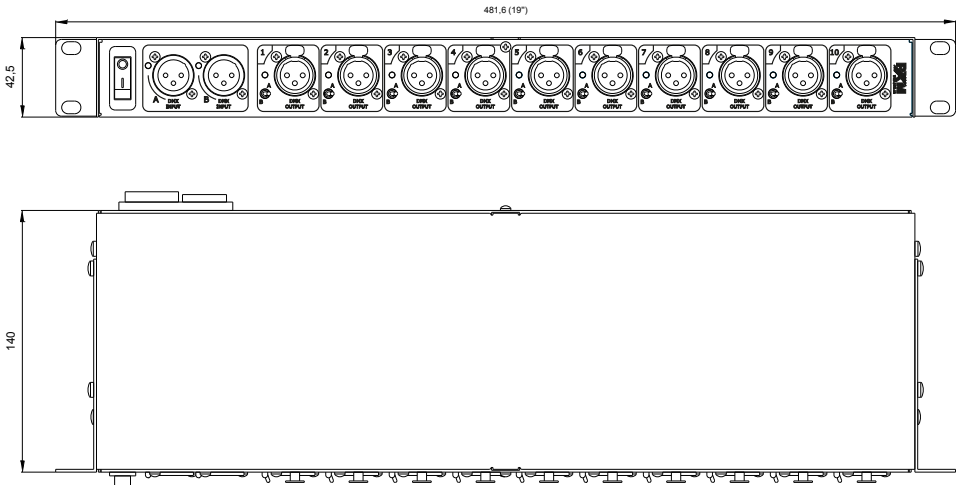
Each of the ten outputs needs to be assigned a single input (A or B).

For example, for 7 outputs are assigned to input A, while 3 output to input B (example in the diagram below).

In order to select either input A or B, use the switches located next to the output.



# 5 Dimensions



## 6 Technical data

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type	PX736
DMX INPUT / OUTPUT lines	2 / 10
signal regeneration	yes
DMX input selection	individually for each output
DMX line optical isolation	yes
overvoltage protection	yes
INPUT / OUTPUT insulation breakdown voltage	>1000V
type of DMX signal cable	shielded twisted pair cable
signal cable diameter	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	socket 3-pin XLR or 5-pin XLR
power supply connector	PowerCON TRUE1 Neutrik
power supply	230V AC
power consumption	10W
weight	2kg
dimensions	width: 481,6mm (19") height: 42,5mm depth: 140mm



## DECLARATION OF CONFORMITY

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

we declare that our product:

*Product name:* DMX Splitter 2/10

*Product code:* PX736

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.

  
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