

PX736-3  
PX736-5

# DMX Splitter 2/10

MANUAL



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

# 1. GENERAL DESCRIPTION

DMX512 signal splitter

PX736 allows for providing branches in extensive DMX512 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 DMX512 signals, removing interference effects, as well as eliminating signal reflections on the line.

Using your PX736, you can split two DMX512 input signals 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 ensures proper operation of the entire installation.

The PX736 splitter has a metal housing that is fitted into RACK system.

The PX736 is designed to run from 230 V AC mains.

# 2. SAFETY CONSIDERATIONS

The PX736 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. PX736 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.

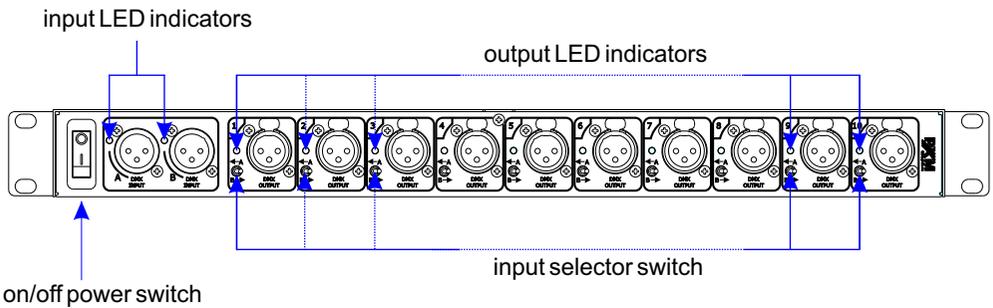
### 3. SPLITTER DESCRIPTION

The device incorporates two DMX512 inputs, ten DMX512 outputs and several diode indicator lights.

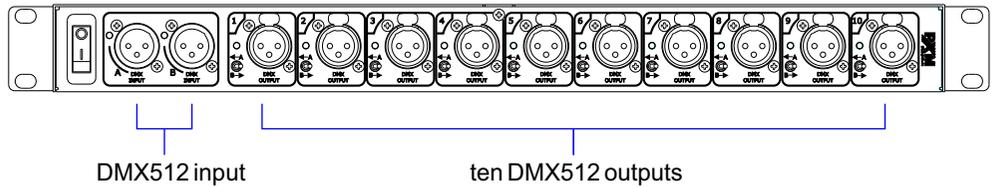
The indicator diodes on the front panel provide information on the status of the unit:

- when the splitter is turned on, input diodes A and B **flash twice**
- when a DMX signal is present, the input diodes **flash every half 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

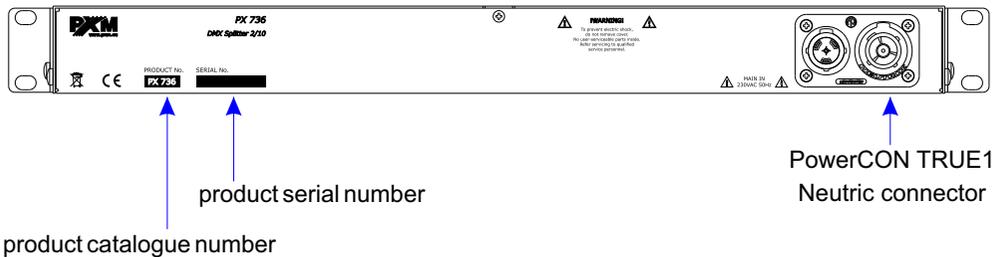
#### FRONT PANEL OF THE DEVICE - indicator diodes, switches and power



#### FRONT PANEL OF THE DEVICE - signal connectors



#### REAR PANEL OF THE DEVICE



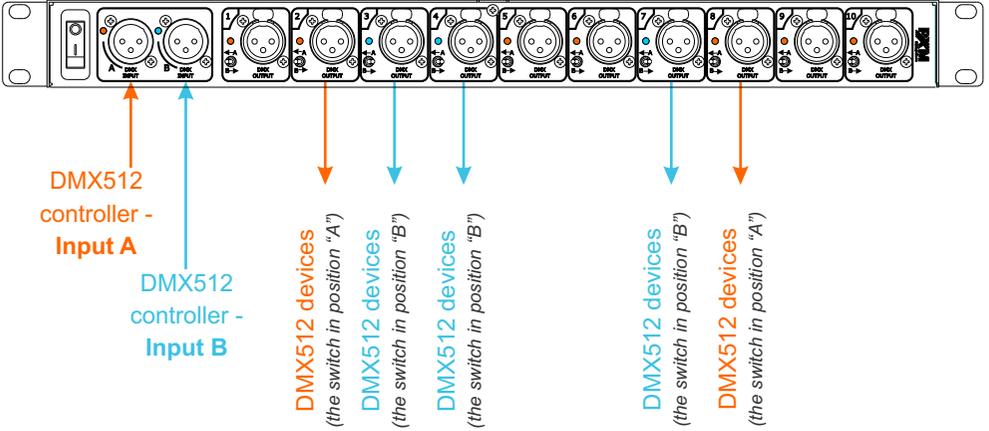
# 4. CONNECTION SCHEMATIC

Example connection arrangement for the splitter:

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

Example: Seven of the outputs are assigned to input A, and three to input B.

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

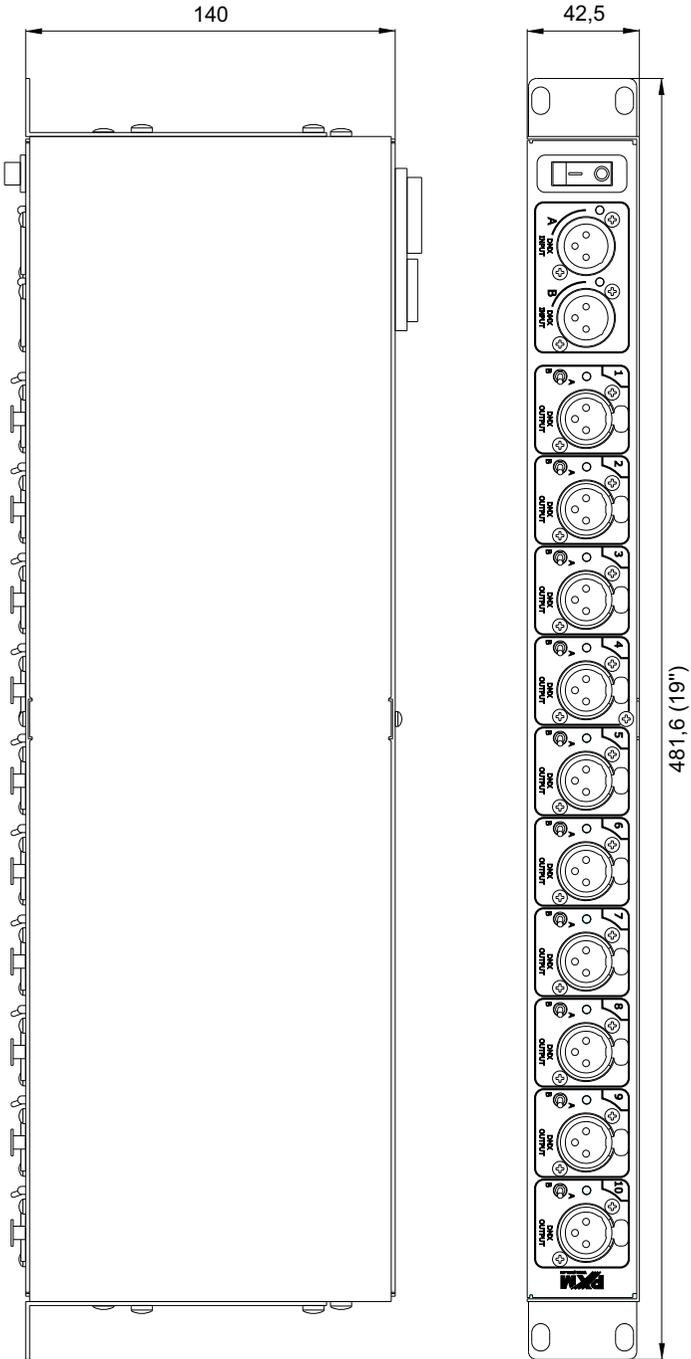


## 5. TECHNICAL DATA

Type:	PX736
DMX512 INPUT / OUTPUT lines:	2 / 10
The protocol supported:	DMX512, DMX512-A
Signal regeneration:	yes
DMX input selection:	individually for each output
DMX line optical isolation:	yes
Overvoltage protection:	yes
INPUT/OUTPUT insulation breakdown voltage:	>1000 V
Recommended DMX signal cable type:	shielded twisted pair cable (e.g. BiTsound DMX 512/1990 Data Cable 100 Ohm LP0214)
Signal cable diameter:	22 or 24 AWG
Data cable impedance:	110-120 $\Omega$
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:	1x PowerCON TRUE1 Neutrik
Mounting:	in a RACK system
Power supply:	100 - 240 V AC
Power consumption:	10 W
Weight:	1,96 kg
Dimensions:	Width: 481,6 mm Height: 42,5 mm Depth: 140 mm



# 6. DIMENSIONS





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## 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 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.



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Podłęże, 28.08.2017

mgr inż. Marek Żupnik.