

PX097-IP

PX097-IP-K

DMX Repeater – IP

User manual



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

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# 1 Description

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DMX Repeater is a universal repeater and splitter of the DMX signal.

The device allows to create ramifications in the complex stage DMX installations and to amplify the DMX signal, that means, enables to connect next 32 receivers and to lengthen the DMX line. According to the DMX standard, the receivers in a DMX route must be connected in series. In the PX097-IP-K version, all DMX lines have additional overvoltage protection.

In addition, in the last device a terminator must be installed. It is impermissible to split the DMX line by simply "splitting the wire". Because the connection of receivers into one chain can be very troublesome in the case of complex installations, the possibility of creating DMX branching and amplifying the control signal is provided, which is what DMX Repeater – IP provides.

With the PX097-IP repeater you can split the incoming DMX signal into two independent branches and amplify the DMX signal. The device has an optical isolation between input and two outputs. Obviously, connecting the receivers to particular output routes must be performed according to the rule of line in series, with the terminator installed in the last device.

The device casing is made of plastic and provides protection against adverse external factors.

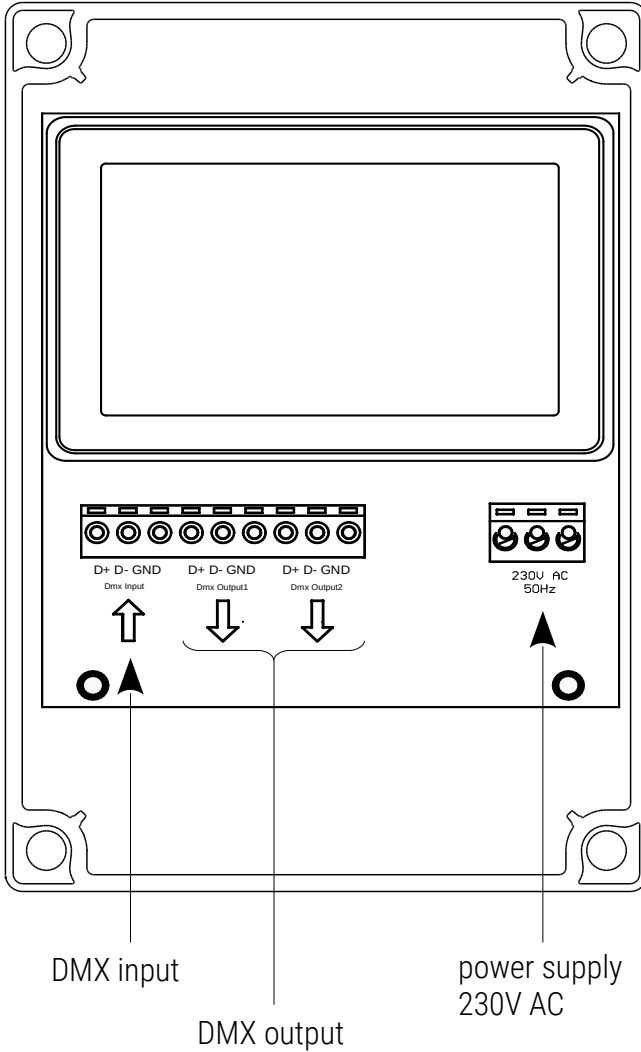
## 2 Safety conditions

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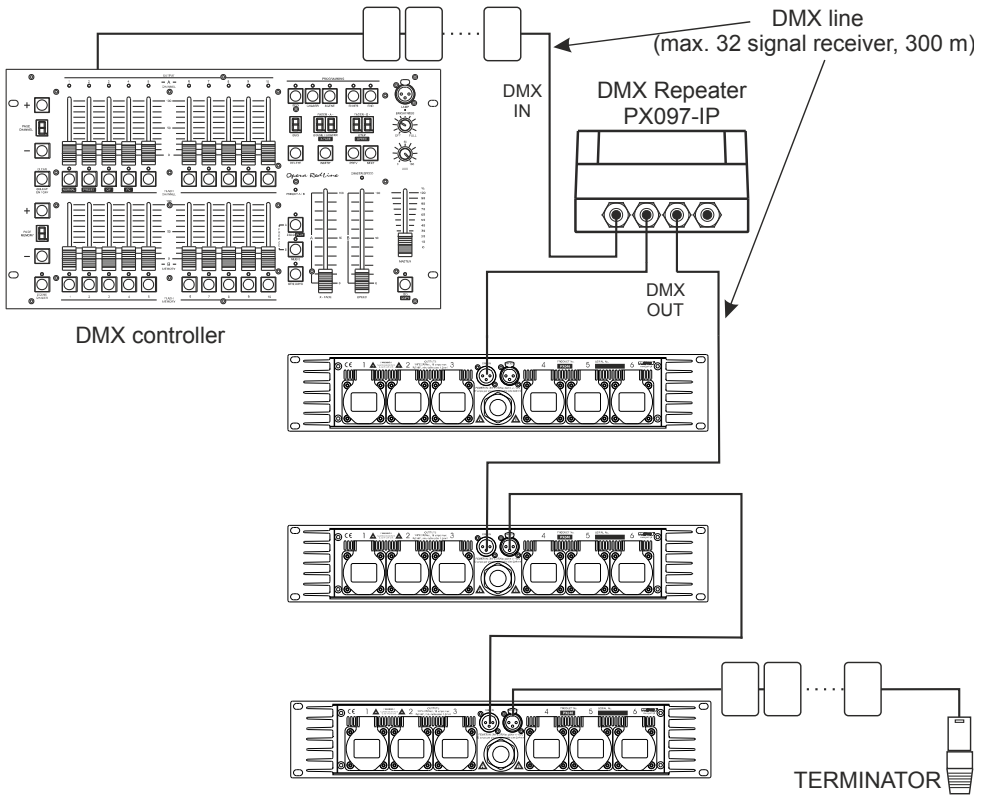
Repeater PX097-IP is a device powered directly from standard 230V AC grid, what cause electric shock when safety rules are not observed. Therefore it is necessary to observe the following:

1. Repeater installation must be performed by a person holding the appropriate qualifications, according to the manual.
2. All the conductors should be protected against mechanical and thermal damage.
3. In the event of damage to any of the wires, replace it with a cable with the same technical parameters.
4. Only a shielded cable should be use to connect the DMX signal.
5. Do not connect the device with a damaged (cracked) housing.
6. All repairs and connection of the DMX signal can only be carried out with the power off.
7. All sudden shocks, particularly dropping, should be avoided.
8. Cleaning only with damp duster – PX097-IP has to be cut off the power supply.

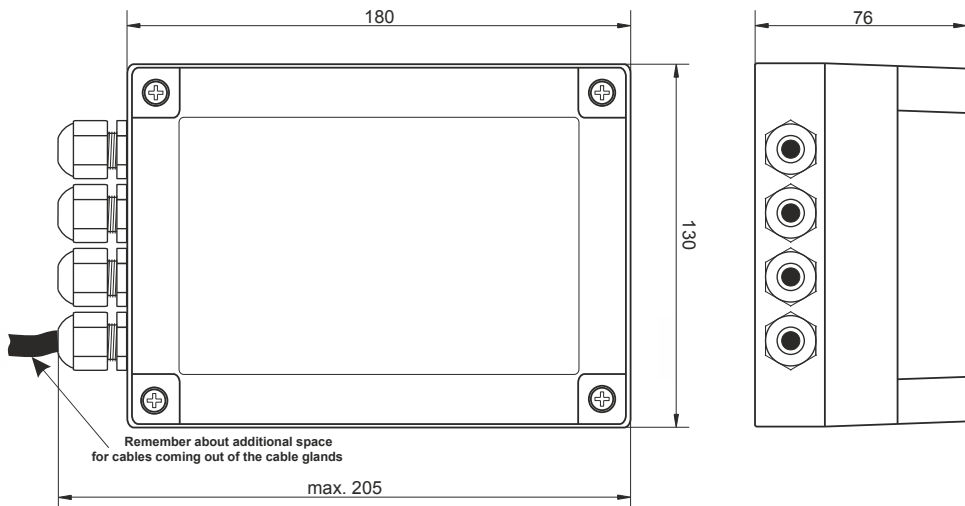
# 3 Connectors



# 4 Connection scheme



## 5 Dimensions



## 6 Technical data

type	PX097-IP / PX097-IP-K
IP class	65
DMX I / O lines	1 / 2
DMX line connectors	screw connectors (terminal block)
isolation I / O breakdown voltage	> 5000V
power supply	230V AC, 50Hz
power consumption	max. 6,5W
housing material	polycarbonate (PC)
weight	0.6kg
dimensions	width: 130mm height: 180mm depth: 76mm

## DECLARATION OF CONFORMITY

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

we declare that our product:

*Product name:* DMX Repeater – IP

*Product code:* PX097-IP / PX097-IP-K

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

PN-EN IEC 63000:2019-01

EN IEC 63000:2018

PN-EN 60529:2003

EN 60529:1991

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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