PX268

PiXiMo 12350

Driver LED 12x350 mA

Manual

PXM®

Contents

1. General description..... 3

2. Safety conditions..... 3

3. Connections and control elements description..... 4

4. DMX address settings..... 5

4.1 Smooth function setting..... 5

5. Connection scheme..... 6

6. Dimensions 7

7. Technical Data 7

8. Declaration of Conformity..... 8

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

Ver. 1.1

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1. GENERAL DESCRIPTION

The PiXiMo 12350 driver is designed to control LEDs, it is ideal for use in simple systems. Built-in receiver allows to control of 12 channels directly with DMX protocol. To each of the 12 channels you can connect up to three Power LEDs.

The PX268 can only be controlled with DMX. Built-in DIP switch allows you to set the starting address of the first channel. The rest of DMX channels are assigned the following after each other higher addresses. The value of this address is set in binary code. In addition, the last section of the switch allows you to activate the Smooth option. This feature smooths the transition between successive control signal values for fluent changes of color in the connected lamps.

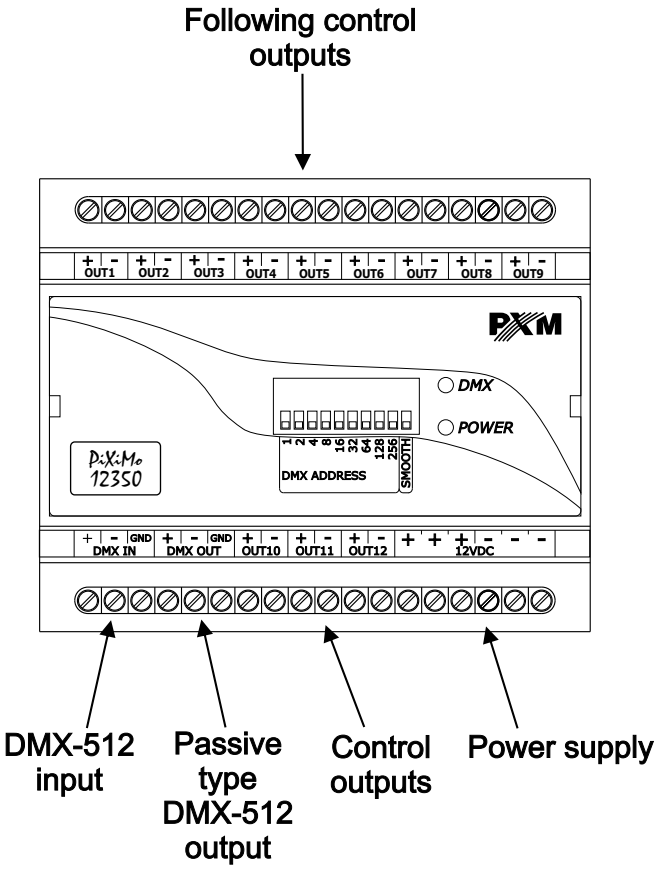
The driver is produced in DIN rail compatible casing - 6 standard DIN modules wide.

2. SAFETY CONDITIONS

PX268 LED Driver 12 x 350 mA is a device powered with safe voltage 12; however, during its installation and use the following rules must be strictly observed:

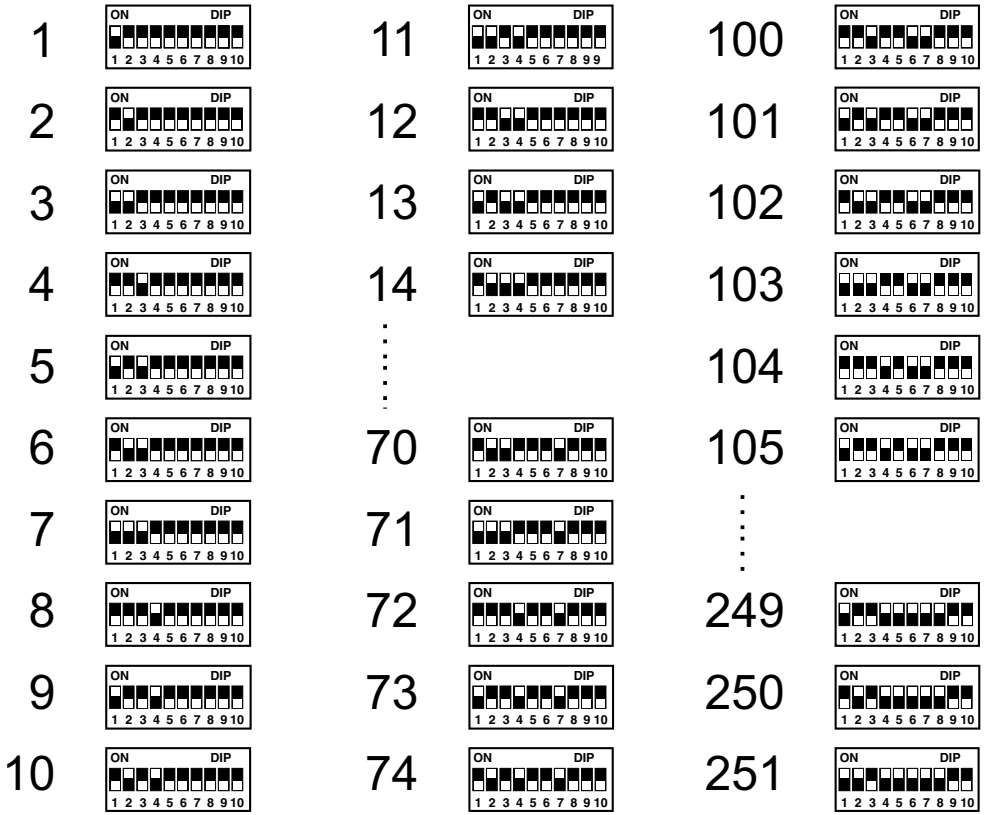
1. The device may only be connected to 12V DC with current-carrying capacity compatible with technical data.
2. All the conductors should be protected against mechanical and thermal damage.
3. In the event of damaging any conductor, it should be replaced with a conductor of the same technical data.
4. Use only shielded cables to connect the DMX signal.
5. All repairs and connections of outputs or DMX signal can only be made with cut off power supply.
6. PX268 should be strictly protected against contact with water and other liquids.
7. All sudden shocks, particularly dropping, should be avoided.
8. The device cannot be turned on in places with humidity exceeding 90%.
9. The device cannot be used in places with temperature lower than 2°C or higher than 40°C.
10. Clean with damp duster only.

3. CONNECTIONS AND CONTROL ELEMENTS DESCRIPTION

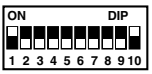


4. DMX ADDRESS SETTING

The PX268 allows to set an address on a single DMX channel. The start address is set in binary code using a switch-type "DIP switch". Below You will find some sample settings of the start address - next to the address number is picture of "DIP switch" set up.
First 9 switches are responsible for setting the start DMX address, the last (10th) "DIP switch" activates "Smooth" function.



4.1. SMOOTH FUNCTION SETTINGS



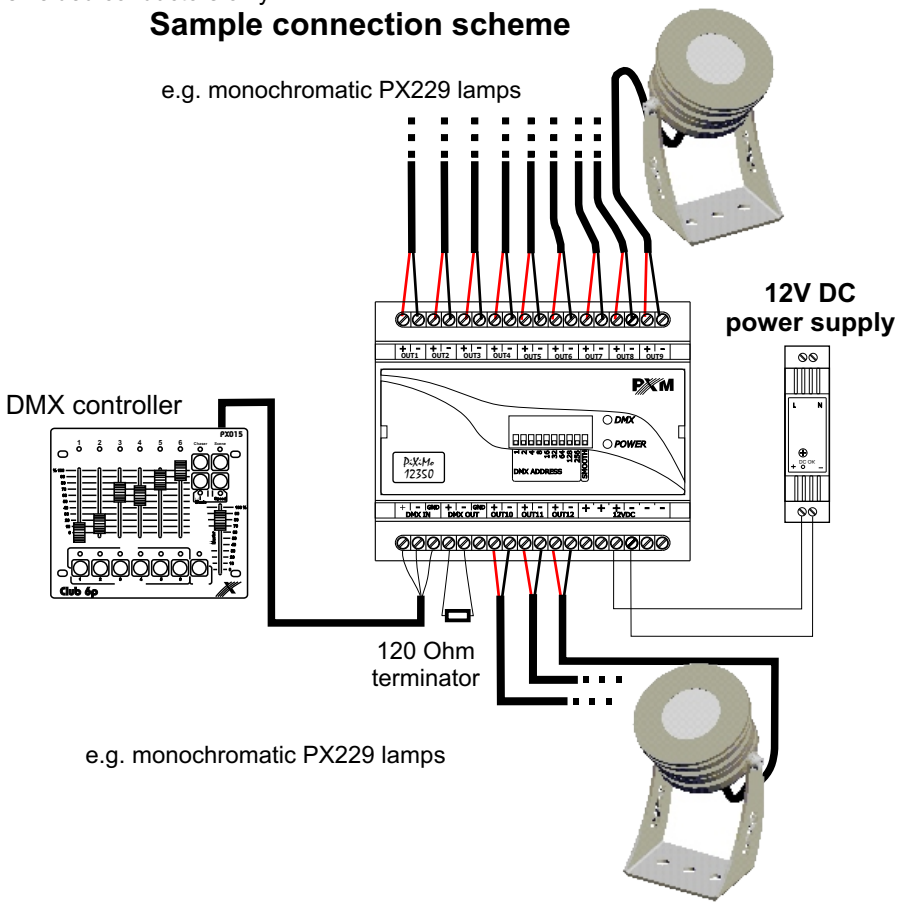
Active "smooth" function and starting DMX address on the first channel.

Activating of the Smooth function allows to flatten steps between successive control signal values and ensures fluent changes e.g. of colour in connected lamps. This feature prevents common effects of light flickering during brightness or colour changes in lighting installations.

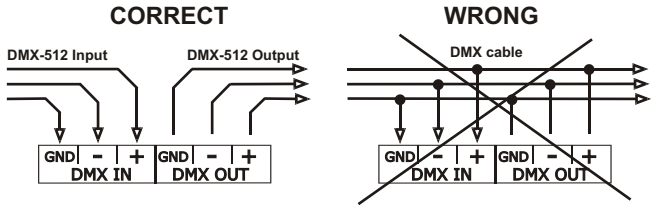
5. CONNECTION SCHEME

Due to use of passive-type DMX in the PX268 driver, a 120 Ohm terminator is needed at the end of DMX line. Such a solution allows to connect up to 32 of the PX268 drivers to a DMX controller (serial connection).
The connections have to be made with wires of appropriate gauge. The proper connection lowers the risk of damaging the driver and improves its reliability. For DMX signal connection use the shielded conductors only.

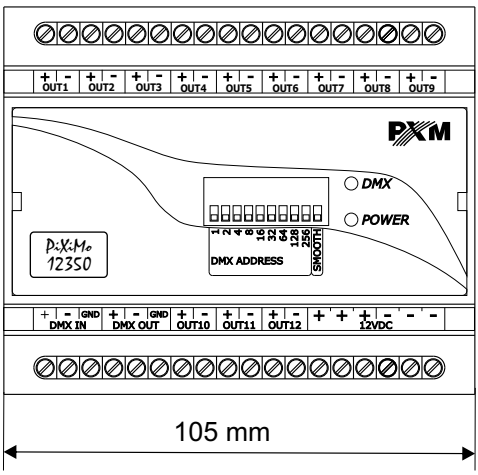
Sample connection scheme

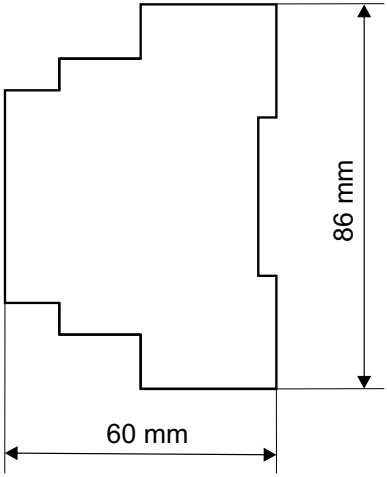


The PX268 must be connected to the DMX line in a series, without branching on the control cable.
This means that the DMX IN pins in PX268 must be connected with the control cable.
From the DMX OUT pins it must be led to the next DMX receivers.



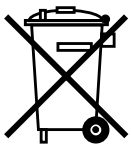
6. DIMENSIONS





7. TECHNICAL DATA

DMX output channels:	512
Power supply:	12V DC
Max. current consumption:	4,2 A
Power consumption without load:	0,8 W
Number of output channels:	12
Control accuracy:	16 bit
Output load:	350mA / channel
Output sockets:	terminal blocks
Weight:	0,29 kg
Dimensions:	width: 105 mm (6 DIN rail modules) height: 86 mm depth: 60 mm



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DECLARATION OF CONFORMITY
according to guide lines 2004/108/EC

Name of producer: PXM Marek Żupnik spółka komandytowa

Manufacturer's address: ul. Przemysłowa 12
30-701 Kraków, Poland

We declare that our product:

Product name: **PiXiMo 12350**

Product code: **PX268**

complies with the following standards:

EMC: **PN-EN 61000-4-2:2011**
PN-EN 61000-6-1:2008
PN-EN 61000-6-3:2008

Additional information: The DMX-512 output must be shielded and the shielding must be connected to the ground responding to the DMX connectors.

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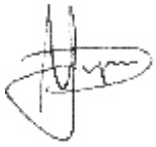
NIP 677-002-54-53



Kraków, 15.04.2013

mgr inż. Marek Żupnik(M.Sc. Eng.)