

PX232

1 Relay Module

MANUAL



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

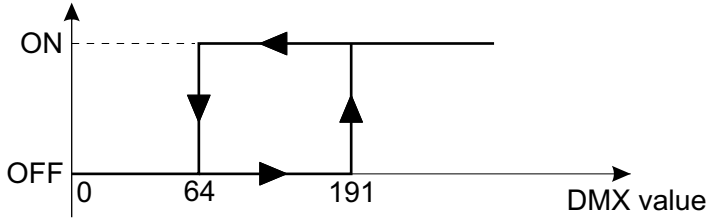
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|---------------------------|---|
| <i>PXM s.c.</i> | <i>tel.: (+48 12) 626 46 92</i> |
| <i>ul. Przemysłowa 12</i> | <i>fax: (+48 12) 626 46 94</i> |
| <i>30-701 Kraków</i> | <i>E-mail: info@pxm.pl</i> |
| <i>POLAND</i> | <i>Internet: www.pxm.pl</i> |

1. GENERAL DESCRIPTION

The PX232 Relay Module is a device used to switch effects of stage and architectural illuminators via DMX-512 signal.

The module contains a transmitter that controls the on / off output. It has a built-in hysteresis, which eliminates vibration of relay phenomena during switching on and off. The PX232 switches on output when the DMX value is over 191. Relay switches off the output after reaching 64 value or below.

Method of hysteresis operation is shown below.



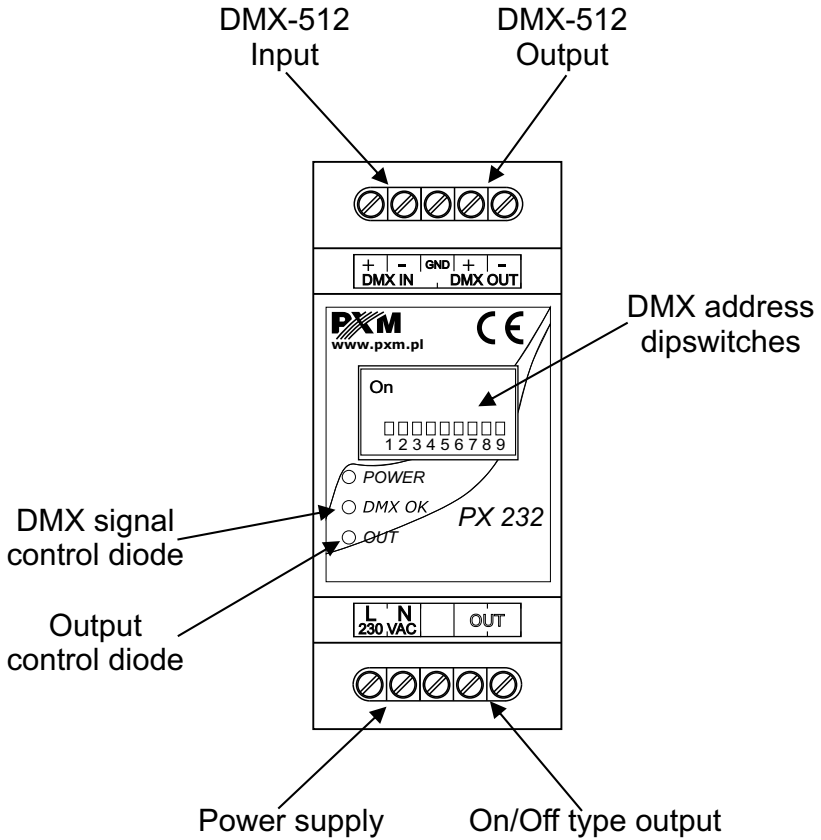
The device is equipped with DMX signal input and output. Its housing is adapted for mounting on DIN rails and is 35 mm wide (the size of 2-modules).

2. SAFETY CONDITIONS

The PX232 is a device powered directly from power grid 230V, 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 1 Relay Module 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. PX215 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 90%.
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. CONNECTION AND CONTROL ELEMENTS DESCRIPTION



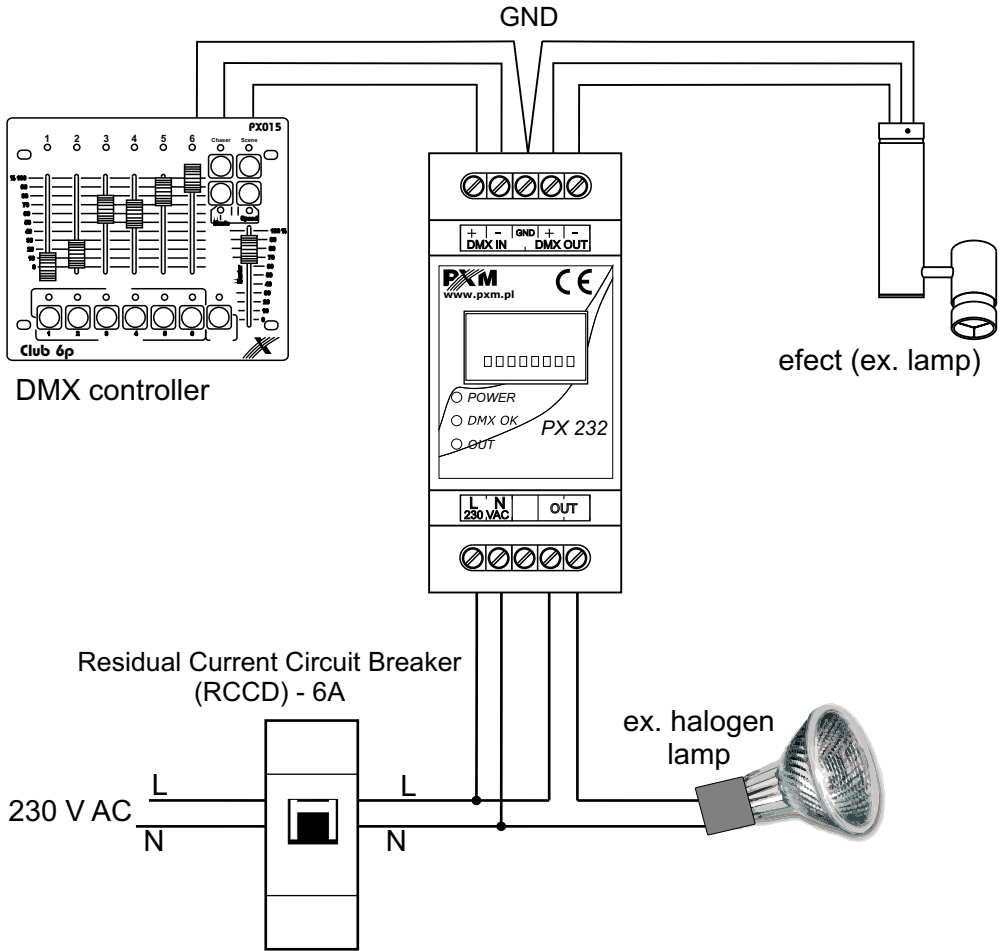
4. DMX ADDRESS SETTINGS

The PX232 allows to set an address on a single DMX channel. The start address is set in binary code using a switch-type "DIP switch". Here are some sample settings for the start address.

| | | | | | |
|----|--|-----|-----|-----|-----|
| 1 | | 11 | | 100 | |
| 2 | | 12 | | 101 | |
| 3 | | 13 | | 102 | |
| 4 | | 14 | | 103 | |
| 5 | | ... | ... | 104 | |
| 6 | | 70 | | 105 | |
| 7 | | 71 | | ... | ... |
| 8 | | 72 | | 249 | |
| 9 | | 73 | | 250 | |
| 10 | | 74 | | 251 | |

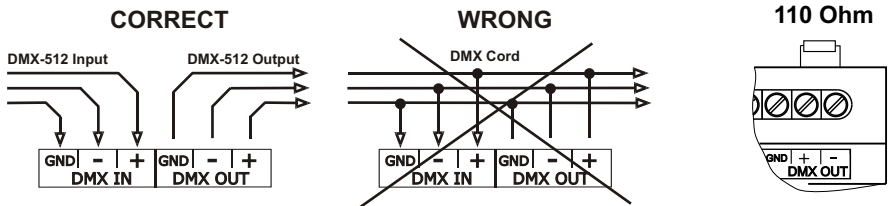
White color shows position of the switch . In upper position DIP switch is ON and in lower position it is OFF.

5. CONNECTION DIAGRAM

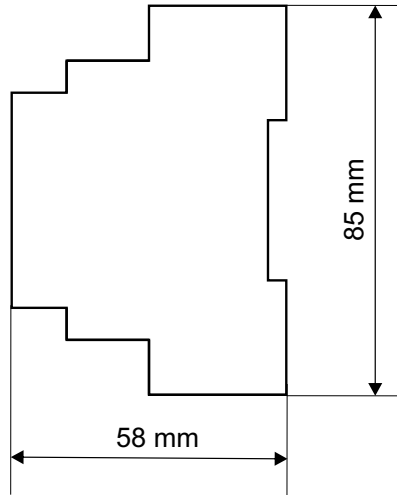
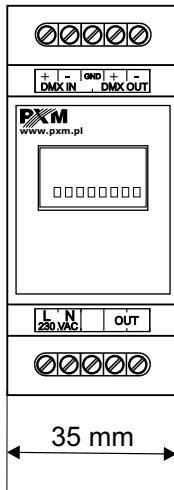


PX232 must be connected to the DMX line in series. This means that to the DMX IN terminal control cable should be connected, and then from the DMX OUT terminal the control cable should go to other DMX receivers.

If the PX232 is the last device in the DMX line, to the terminals "DMX +" and "DMX-" have to be connected the terminator - 110 Ohm resistor (between pin "+" and "-" DMX Out).



6. TECHNICAL SCHEME



7. TECHNICAL DATA

| | |
|------------------------------|----------------------------|
| - DMX channels: | 511 |
| - Number of output channels: | 1 |
| - Output load: | max. 6A, 250V AC / channel |
| - Connections: | terminal blocks |
| - Power supply: | 230V AC |
| - Current consumption: | max. 16 mA |
| - Dimensions: | |
| Width: | 35 mm (2-modules) |
| Height: | 60 mm |
| Length: | 85 mm |





ul. Przemysłowa 12
30-701 Kraków, Poland

tel: +48 12 626 46 92
fax: +48 12 626 46 94

e-mail: info@pxm.pl
<http://www.pxm.pl>

DECLARATION OF CONFORMITY
according to guide lines 2006/95/WE and 2004/108/WE

Name of producer: PXM s.c.

Address of producer: ul. Przemysłowa 12
30-701 Kraków
Poland

declares that the product:

Name of product: **1 Relay Module**

Type: **PX232**

answers the following product specifications:

LVD: PN-EN 60065

EMC: PN-EN 61000-6-1
PN-EN 61000-6-3

Additional informations:

The DMX-512 connection have to be shielded and the shielding must be connected to the ground responding to the DMX connectors.

PXM S.C.

Danuta i Marek Żupnik
30-701 Kraków, ul. Przemysłowa 12
NIP 677-002-54-53

Kraków, 13.11.2009

Marek Żupnik M.Sc., Eng.