PX147

# LED 3 W Module

## INSTRUCTION MANUAL

PXM®

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

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# 1. GENERAL DESCRIPTION

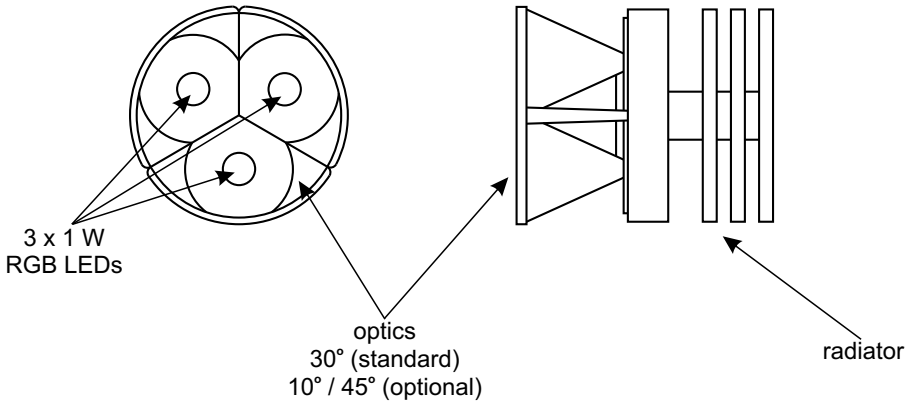
PX147 LED 3 W Module is intended for stage lighting. What is more, it can be used for interiors and architectural illumination as well. PX147 is a module for individual installations, what makes this device perfect for those, who want to create their own, unique LED RGB lamp.
The module is composed of three highly efficient LEDs, 1 W each, mounted on the radiator, that protects the LEDs from overheating. These LEDs are equipped with the optics of three different beam angles, 30 grades (standard solution), 10 and 45 grades (upon request). All the connections between LEDs are made with the flexible wires in the silicone insulation.
To control the module the PX136 3 x 350 mA LED Driver is needed, it allows to control up to five such modules concurrently.
PX147 LED 3 W Module is manufactured in a version for individual installations and must be closed in a casing. The module is intended for indoor installations only.

# 2. SAFETY CONDITIONS

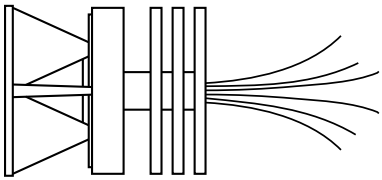
PX147 LED 3 W Module is powered with 350 mA safe current, however, during its installation and use the following rules must be strictly observed:

1. The module installation must be performed by a person holding the appropriate qualifications, according to the manual.
2. The module may be connected to 350 mA load capacity current only.
3. All the conductors should be protected against mechanical and thermal damage.
4. In the event of damaging any conductor, it should be replaced with a conductor of the same technical data and attestations.
5. All repairs should be made with cut off power supply.
6. The module can be installed in closed casings only.
7. PX147 should be strictly protected against contact with water and other liquids.
8. All sudden shocks, particularly dropping, should be avoided.
9. Module with visible damages should not be connected to the mains.
10. The module cannot be turned on in places with humidity exceeding 90%.
11. The module cannot be used in places with temperature lower than 2°C or higher than 40°C.

## 3. LUMINOUS ELEMENT DESCRIPTION




## 4. CONNECTION DESCRIPTION

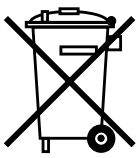


Each colour of the tip of the power cable corresponds with one of the three RGB channels.

Full colours stand for the anode (+), colurs with the additional black stripe - cathode (-).

## 5. TECHNICAL SPECIFICATION

| | |
|---|---|
| - power supply | 3 x 350 mA |
| - power consumption | 3 VA (full brightness, white colour) |
| - beam angles | 30° (typical)<br>10° / 45° (upon request) |
| - brightness (for 30ş lens, distance: 1 meter) | 250 lx approx. |
| - number of possible colours | 16 millions (theoretically) |
| - dimensions: | |
| - diameter | 51 mm |
| - length | 47 mm |



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# DECLARATION OF CONFORMITY
**according to guide line 89/336/EWG**

Name of producer: PXM s.c.

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

*declares that the product:*

Name of product: **LED 3 W Module**

Type: **PX147**

*answers the following product specifications:*

**EMC:** **PN-EN 55103-1**
**PN-EN 55103-2**

*Additional informations:*

1. A ground wire of the device power cable must be connected to efficient ground instalation.
2. The device can be installed in closed casings only.

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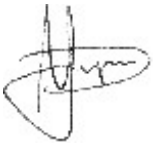

Kraków, 01.06.2006

Marek Żupnik M.Sc.