

PX373

PxAqua 6
SH 12V

MANUAL



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

1. GENERAL DESCRIPTION

PxAqua 6 LED lamp 12V SH is designed for underwater lighting. It can also be used to illuminate the interior and exterior architectural details.

The lamp uses six high-power LEDs from OSRAM Oslon. The LEDs are available in 3 different color temperatures: cold white, warm white or neutral white. The lamp may be provided with optics of lighting beam angles 10°, 25° (standard), 50° or elliptical 35°x12°. The casing is made of stainless steel (316L), and provides protection class IP68.

The device is provided with a two-meter cable.

The PX373 may only be powered from 12V or 24V DC using voltage LED drivers or voltage power supply. In case of using a voltage driver e.g. PX254, PX282 or PX370, it is possible for dimming of this product.

2. SAFETY CONDITIONS

Caution! Before installing, connecting, using and maintaining the lamp, you must absolutely read this document.

The following symbols are used to emphasise important information on security conditions on the product and in this manual.



Danger!

Risk of loss of life and health.



Warning!

Fire hazard.



Warning!

LED light emission.
The risk of eye damage.



Warning!

The risk of burns.



Warning!

Read this instruction manual.

Caution!

Do not look at the LEDs at a shorter distance than 2.0 m from the front surface of the tube without proper eye protection. At a shorter distance, LEDs can cause damage or eye irritation. Do not look at the light source directly through any optical instruments, which focus the light rays.



From a distance of more than 2.2 m from the outer housing of the lamp and LEDs, the light is harmless to unprotected eyes.



While working outdoors in normal conditions, the housing unit can heat up to +60°C. Make sure that accidental contact with the device during use is impossible.



In case of improper usage of the product it may cause a risk of serious injury or death, because of the threat of fire.



PX373 PxAqua 6 SH 12V is a device powered with safe voltage 12; however, during its installation and use the following rules must be strictly observed:

1. Installation should be performed by a person holding the appropriate qualifications, according to the instruction manual.
2. The device may only be connected to 12 -24 V DC with current-carrying capacity compatible with technical data.
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.
5. All repairs and connections of outputs can only be made with cut off power supply.
6. All sudden shocks, particularly dropping, should be avoided.
7. PX361 should be strictly protected against contact with water and other liquids.

3. VERSION DATA

Light fixture PX373 is available in several versions featuring lenses with different beam angles.

PX373 version markings and their meanings are provided below:

PX373 - XX - YYY - ZZ

XX - lens beam angle

10 - 10°

25 - 25°

50 - 50°

EL - elliptical 35x12°

YYY - LED colours

W - warm white

N - neutral white

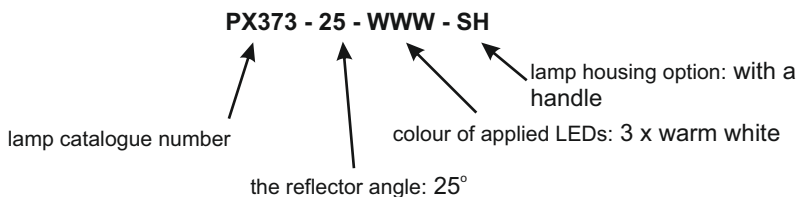
C - cold white

ZZ - light fixture housing option

SH - with a handle

When ordering please select the colour of LEDs in the light fixture.

Specimen light fixture marking:

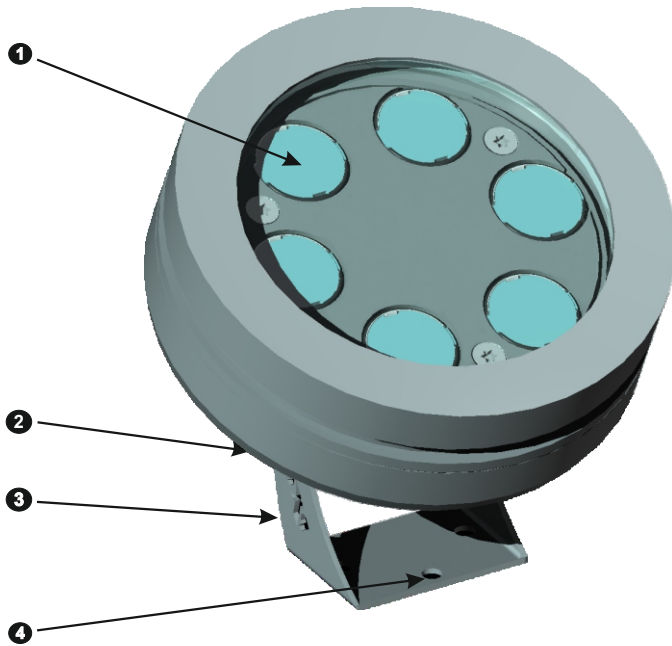


Housing option:

Water-resistant IP68

The light fixture housing, which is IP68 rated, allows you to install PX361 light fixtures underwater, e.g. in fountains, pools as well as locations exposed to the elements.

4. LAMP DESCRIPTION

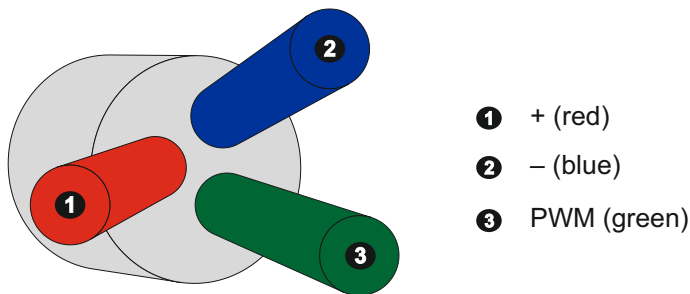


- ❶ 6 LEDs
- ❷ A bolt with a spring washer to fasten the handle to the body (this allows for adjusting the fixture inclination angle in vertical plane)
- ❸ a handle
- ❹ a hole for the bolt fastening the handle to the surface

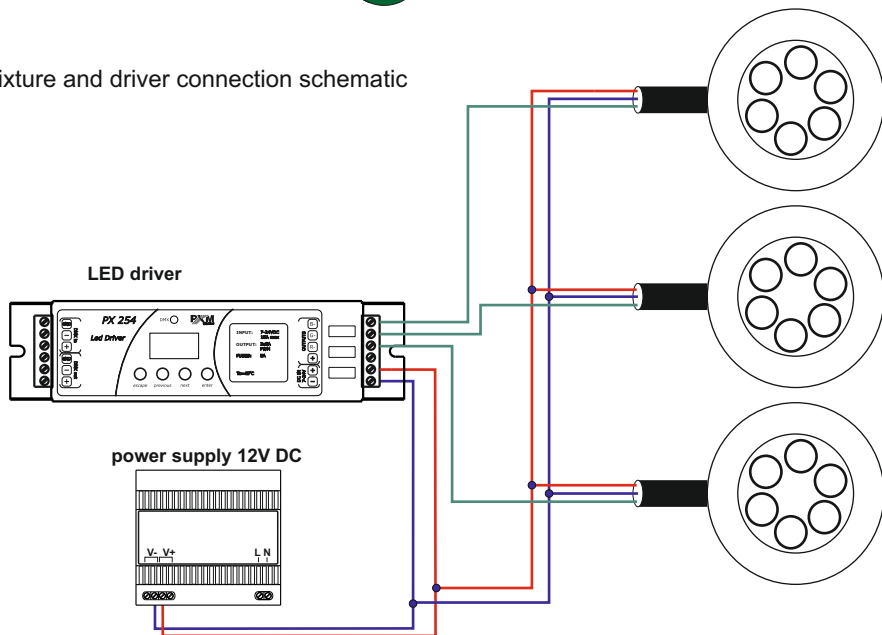
5. WIRING DIAGRAM

Use a three-conductor cable to connect monochromatic light fixtures, as shown in the drawings below.

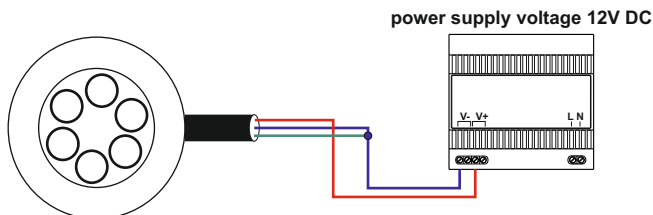
Depending on the number of light fixtures to be installed, select a power supply with suitable power rating (one light fixture consumes ca. 7 W).



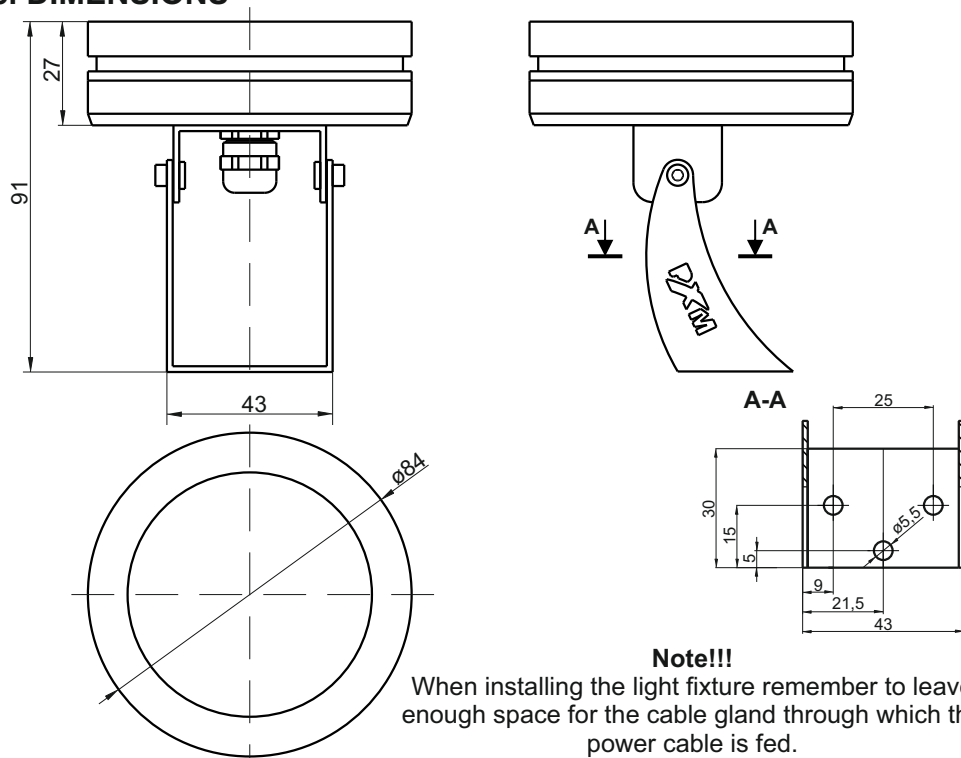
a) Light fixture and driver connection schematic



b) Light fixture and power supply connection schematic



6. DIMENSIONS



Note!!!

When installing the light fixture remember to leave enough space for the cable gland through which the power cable is fed.

7. TECHNICAL DATA

Number of LEDs: 6

Power supply: 12-24 V DC

Current consumption: max. 600mA
max. 0,3 A (for 24V DC)

International Protection Marking: IP68

Casing material: stainless steel (316L)

CRI: ≥ 80

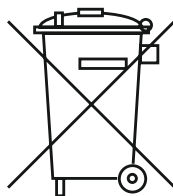
Lenses beam angle: 25° (typical); (on order): 10°, 50°, EL(35°x12°)

Available LEDs colors: warm white, cold white, biały neutralny

Brightness (22° odl. 1 m.): 2500 lx

Masa: 0,77 kg

Wymiary: diameter: 84 mm
height: 27 mm
height, including the case foot: 91 mm





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DECLARATION OF CONFORMITY

according to guide line 2006/95/WE

Name of producer: PXM Marek Żupnik sp.k.

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

declares that the product:

Name of product: **PxAqua 6 SH 12V**

Type: **PX373**

answers the following product specifications:

PN-EN 60598-1:2011

PN-EN 62031:2010

PN-EN 62471:2010

Additional informations:

1. Power may be supplied to PX373 only by power supplies or voltage drivers with output voltage of 12V or 24V DC.



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Kraków, 18.03.2015

mgr inż. Marek Żupnik.