PX 221

PxLine 230V

MANUAL

PXM®

Contents

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

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Rev.1.3.

1. General description

The PX221 lamp is designed as an elevations' illuminator and architectural details. Linear LED lamp PxLine 230V is produced in a housing of IP65 (Ingress Protection). PxLine 230V is used in installations where constant light is required.

The PX221 LED lamp is a lamp which allows configuration of the final product according to customer needs. Powerful 3-watt (700mA) or 1W (350mA) LUXEON ® Rebel series LEDs provides a variety of LED colors.

In addition, sealed aluminum housing (IP65 class) of the lamp makes it an ideal solution for every type of architecture lighting.

PX221 provides very high brightness of the light beam at a small (a maximum of 110W - with 36 LEDs) power consumption.

The device is manufactured in many versions of the emitted colors like: a dynamic white, RGB, red, green, blue, amber, cold white, neutral white and warm white. Each version can be equipped with optics for the beam distribution angles of 10, 25 or 45 degrees. On special request it is also possible an implementation of the lamp shining in different colors (e.g. purple - a mix of red and blue LEDs).

2. Safety conditions

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

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

Danger!
The risk of losing health and life.

Caution!
Fire hazard.

Caution!
LED light emission.The risk of eye damage.

Caution!
Risk of burns.

Caution!
Read carefully manual.

Caution!

Do not look at the LEDs turned on at a lesser distance than 3 m from the front surface of the lamp without proper eye protection. In closer distance the light of diodes can cause eye irritation or even damage. Do not look at the light source directly through any optical instruments, which focus the light rays.

In distance over 3 m from the lamp housing the LED light is not harmfull to unprotected eyes.

The housing of the lamp heats up to 70°C during normal work in open air. You should make sure that contact with the device is not possible.

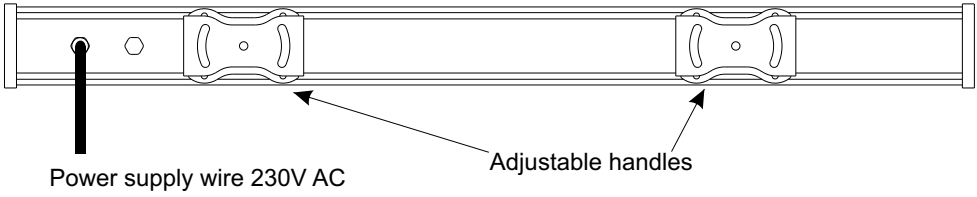
In the case of improper use the product can cause a risk of serious injury or death because of the fire threat.

During installation and use of the device PX221 lamp the following rules must be strictly observed:

1. Installation, particularly power connection, should be performed by a person holding the appropriate qualifications and according to this manual.
2. The lamp may only be connected to 230 V AC mains.
3. All the conductors should be protected against mechanical and thermal damage.
4. In case of damaging any conductor, it should be replaced with a conductor of the same technical data.
5. Device with visible mechanical damage cannot be connected to the mains.
6. All sudden shocks, particularly dropping, should be avoided.

3. Description of the lamp elements

The PX221 lamp is equipped with a power supply wire that is permanently connected to the lamp. The end of the wire has no connector.



4. Available versions of the PX221

The PX221 lamp is made in few versions that differ from each other in beam angles lenses or LEDs color.

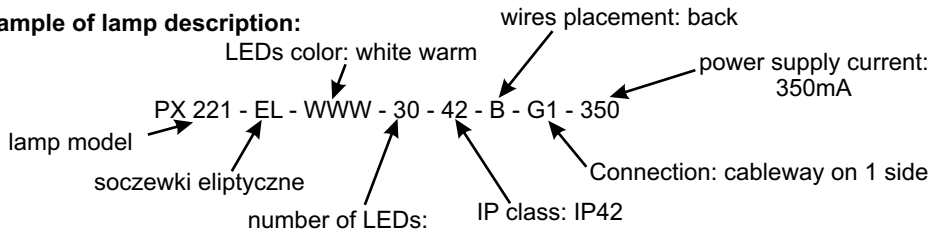
Below you can find a description of the PX221 model designations and their explanation.

❶ ❷ ❸ ❹❺❻ ❼

PX221-XX-YYY-ZZ-RR-S-TT-WWW

1. XX-beam angle of lenses - Available values:
   - 10 - 10°
   - 25 - 25°
   - 45 - 45°
   - EL - elliptical: 10°/45°, 10°/90°
2. YYY-LEDs color - Available colors:
   - W - warm white
   - N - neutral white
   - C - cold white
   - R - red
   - G - green
   - B - blue
   - A - amber
3. ZZ-Number of LEDs.
   - 18, 24, 30, 36
4. RR-IP (ingress protection) class
   - IP42, IP65
5. S-Placement of connectors / cableways.
   - S - side
   - B - back
6. TT-Type of connections
   - G - cableway (gland)
   - CS - connector (socket)
   - 1 - on one side - only input
   - 2 - on both sides - input and output
7. WWW-Current supply of LEDs.
   - 350 mA
   - 700 mA

Example of lamp description:

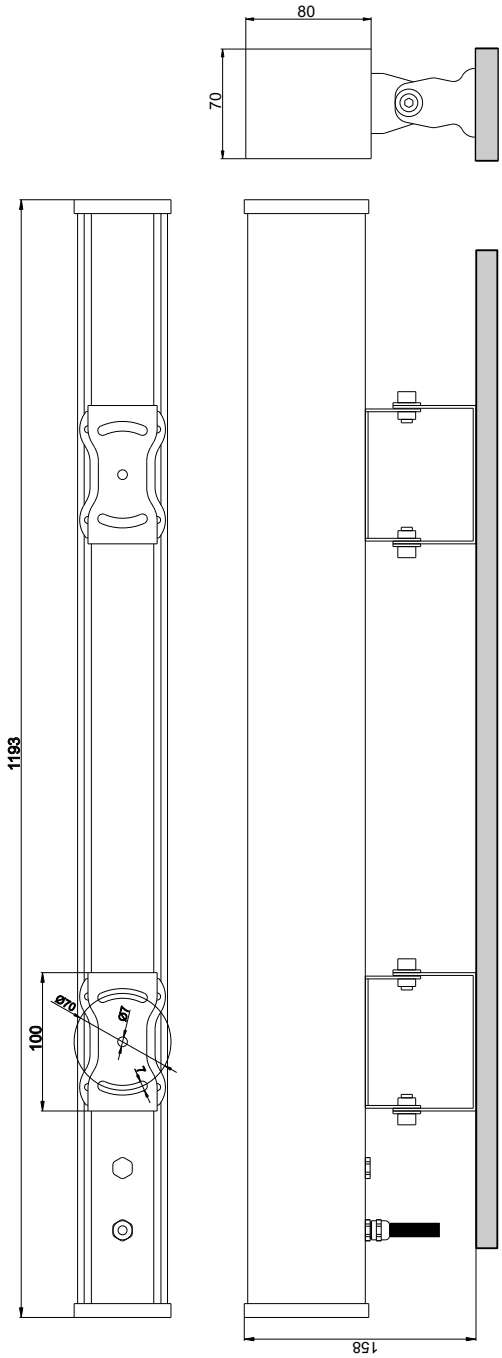


Housing Version:

External IP65.

The housing is IP65 compliant. It means that allows the use of equipment in outdoor applications with dust and humid environment.

5. Dimensions



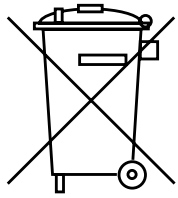
6. LENGHT OF THE LAMP WITH DIFFERNT NUMBER OF LEDs.

The table below shows length of the PxLine lamp according to diffrent LEDs number:

LEDs number	Length of the lamp
6	234
9	329
12	425
18	617
24	808
30	1002
36	1193

7. TECHNICAL DATA

Type	PX221 PxLine 230V
Light Source	LED LUXEON® REBEL
Performance	max. 2250 lumens (for 700mA version)
Beam angles	10°, 25°, 45°, eliptical
Colors of light	red, green, blue, amber, white (warm, neutral, cold)
Power supply	230V AC/50-60Hz (integrated power supply)
Max. power consumption	110 W (for 700mA version with 36 LEDs)
Housing IP class	IP42 or IP 65
Weight	4 kg
Dimensions (without handles)	Length: 1193 mm (36 LEDs) Width: 70 mm Height: 80 mm



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

Name of producer:	PXM s.c.
Address of producer:	ul. Przemysłowa 12 30-701 Kraków, Poland

declares that the product:

Name of product:	**PxLine 230V**
Type:	**PX221**

answers the following product specifications:

SAFETY:	**PN-EN 60825-1** **PN-EN 60598-1**
EMC:	**PN-EN 55103-1** **PN-EN 55103-2**
Additional information:	Note the correct connection of the protective conductor.

PXM S.C.
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Kraków, 01.03.2010

M.Eng Marek Żupnik.