

LED wall lights "Portao" with PIR motion detector

Wall lights "Portao" with BWM

Product description:

This 15W LED wall light with integrated PIR motion detector adapts to you. It can be tilted by 85 ° and rotated by 300 °. In this way, you can ensure the best lighting at the house entrance, garage, carport or anywhere on the facade.

Common technical details:

- Operation at 230V / 50Hz
- Consumption in operation 15W, in standby 0.9W
- 1050 lumens • Power 15W
- neutral white, 4000K • 100% bright 0.2 sec.
- Beam angle 110 ° • On / Off 20,000x
- Burn time 15,000 hours
- Detection range of the sensor 140 °, max. 9m
- Lighting duration adjustable 10sec - 5min (± 10%)
- Light sensitivity adjustable 3-2000 LUX
- Illuminated area 14x8.5cm, tiltable by 85 °, rotatable by 300 °
- Power factor 0.56 • RA> 80 • IP44, also for damp rooms
- HxWxD 232x88x53mm • Energy efficiency class G



Safety instructions and important information!

In order to guarantee safety at all times and to use the full performance spectrum of the device, please read the safety instructions carefully and carefully!

The product must not be modified technically or mechanically, otherwise the operating license and conformity will expire with immediate effect! The nameplate / imprint must not be removed under any circumstances! Check the product for damage before each use. If the product is damaged, it must be checked, repaired or replaced by a specialist company and disposed of in accordance with the applicable guidelines (footer page 1). Under no circumstances may a damaged or defective product continue to be used! Please be sure to secure all packaging material and accessories, especially small parts such as screws and foils, from children and animals. Suffocation hazard! In the event of non-compliance with the instructions or improper use, the manufacturer Any misuse or changes made to the product assume no liability for damage to property or personal injury. This product must never be operated, kept, stored or stored in the reach of children or animals. If this product is passed on, the instructions and packaging must be included. Thank you! We reserve the right to make misprints or changes to packaging, the product or the instructions.

Separate safety instructions for 230V installations

The installation or the intervention in the power grid can lead to very serious injuries up to a fatal electric shock. • Connection or installation may only be carried out by qualified personnel / qualified electricians in a voltage or current-free state! For all work, completely switch off the circuit in which the installation is being carried out at the main fuse! Otherwise there is a DANGER TO LIFE !! To connect all 230V ~ / 50Hz components, the minimum cross-section (1.5mm²) of the connection line must never be undershot. It is imperative that you use a cable and tool that has been expressly approved for this use. There are no serviceable parts inside this product. The correct connection must be checked; the voltage may only be switched on again when the installation is correct.

Electronic products that are marked with the crossed-out garbage can do not belong in the household waste! You can hand these products over to the municipal collection points free of charge. Inquire at your local authority, the responsible town hall or a local or municipal waste disposal company. Many Thanks. Used batteries should not be put in the household garbage. Consumers are legally obliged to bring batteries to a suitable collection point at retail or local authority. Old batteries may contain pollutants or heavy metals that can be harmful to the environment and human health. The symbols under the label (garbage can) stand for: Pb: battery contains lead, Cd: battery contains cadmium Hg: battery contains mercury. The environment and ChiliTec say thank you.

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Details variants: (EEKL = energy efficiency class according to 2019/2020 / EU & 2019/2015 / EU)

Item No.	Color / type	power	Consumption / 1000h	Lumens	Kelvin	EEKF	dimmable	Outside dimension / Ø	Protection class
23080	White	15 watts	15kWh	1000lm	4000K	G	no	232x88x53mm	IP44
23153	anthracite	15 watts	15kWh	1000lm	4000K	G	no	232x88x53mm	IP44

Installation instructions and explanations for the table

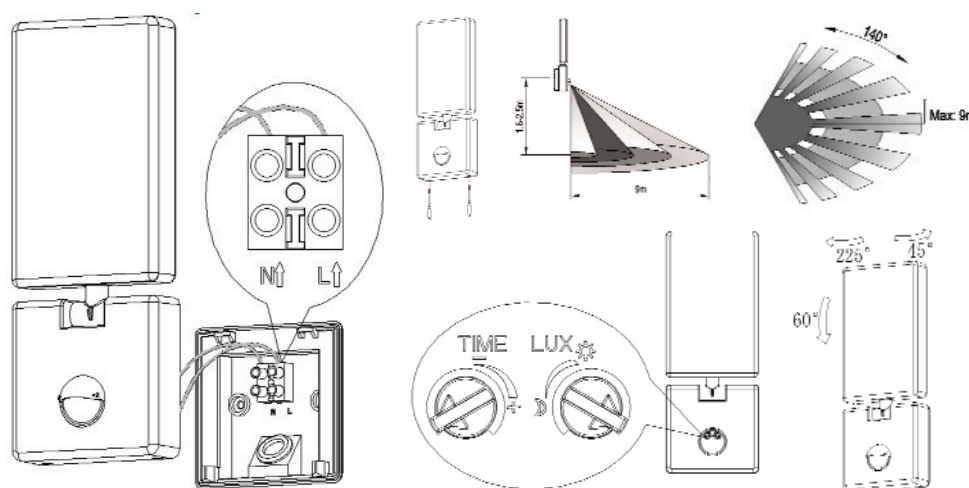
All "Portao" lights may only be installed by qualified electricians - electricity is dangerous.

safety instructions

- Never open the product, there are no serviceable parts - only by qualified personnel.
- The product must never come into contact with water, not even in other liquids.
- The product must not be exposed to heat ($> 40^{\circ}$) or high humidity ($> 80\%$).
- Make sure that the cable is not kinked, squeezed, pinched or run over.
- Before connecting, check that the operating voltage (product) matches the mains voltage.
- Operation is only permitted on 230V ~ / 50Hz mains voltage
- Never touch the product, power cord or plug with damp hands.
- Remodeling, changing or expanding the product is not permitted.

Installation instructions for power connection:

Fasten the two wires of the supply line in the internal luster terminal. The luster terminal is labeled L (phase) and N (neutral conductor). Connect the wires via the terminal and check that they are securely held in the terminal. Any incoming protective conductor (PE) that may be present must be electrically isolated within the luminaire. The protective conductor is not required due to the complete plastic housing. Screw the transparent protective cover with the enclosed screws and close the lamp, making sure that it is tight. The feedthroughs must be opened exactly to match the cable diameter so that the seal is very tight and watertight after the feedthrough.


Function test in daylight

1. Set the Time / Zeit controller to the lowest level, 10s. 2. Set the Lux controller to the highest level, sun symbol. If a person enters the detection area, the motion detector should trigger and switch off again after the set 10s. Note that the device reacts to changes in heat. See the next page.

Separate safety instructions for LED lighting

Never look directly or unprotected into the light or the glowing LEDs. The brightness can dazzle you, you risk injuries and possible permanent damage to the eyes or the retina. Never point the light at people or animals (... if the light is mobile)! The product must never be covered during operation and the possibility of heat dissipation into the environment must be guaranteed. Fire hazard!

Functional principle of PIR motion detectors:

The PIR sensor reacts to a change in temperature by utilizing the pyroelectricity of its receiving surface, caused by a change in radiation flux (mainly due to heat radiation in the mid-infrared; wavelength approx. 10 μm) from people, animals and motor vehicles in its immediate vicinity. It does not react to static differences in heat that are caused naturally, for example by solar radiation - it can only perceive changing signals, for example when a person enters the detection area of the sensor.

In front of the actual sensor - at a focal length distance - there is a spherical or cylindrically arched dome made of small converging lenses made of visually whitish-cloudy plastic, which, however, is clearly transparent in the infrared. This multiple lens collects infrared light from a corresponding number of discrete directional sectors onto the small sensor surface. Visible light is scattered back more. Depending on the lens arrangement, the sensor sees the surroundings as if through spread fingers, (vertical) louvre slots or the grid of a perforated plate. If an object or living being moves with a surface temperature sufficiently higher (rarely: deeper) than the background across these compartments from visual sectors, and is the warm, therefore lighter in the infrared area, advantageously about as wide as a single visual sector there, so the sensor senses the chronological sequence warm-cold-warm. Because the heat source is sometimes visible, then disappears in the visual shadow of a "finger" and reappears in the viewing slit of the next finger gap. The temperature change at the sensor, which is somewhat delayed by the heat capacity, causes an electrical signal that is processed and amplified in order to switch on light via a relay, for example.

In addition to transverse movement to the visible sector stripes, entering such a stripe for the first time or approaching it sufficiently quickly (ie "getting bigger") is also detected. Motion detectors are usually adjustable in their sensitivity and coupled with an adjustable twilight switch.

PIR sensors only receive rays emitted by objects and do not emit any radiation themselves, which is expressed by the term passive infrared sensor. PIR sensors react poorly when an object moves towards or away from them. This is due to their functional principle, since the movement detection takes place on the basis of a temperature change on the sensor surface and movements across the detection area can be better recognized due to the predominantly transversely arranged lens area. PIR detectors can be incorrectly triggered by underfloor heating that warms up.