DATA SHEET

VARNALUX

LED FLOODLIGHT BASIC 50W PIR SENSOR

BASIC | DOB | PIR SENSOR | NON-DIMMABLE | IP66

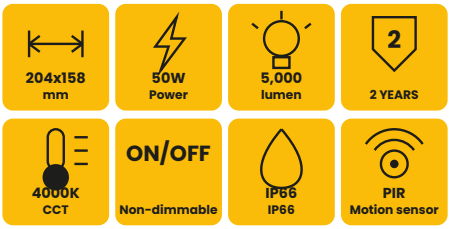


APPLICATION

- Entrances and pathways
- Garages and gardens
- Residential areas
- Commercial spaces and warehouses
- Automatic outdoor lighting

AVAILABLE MODELS

Color Temp	REF No
4000K	100122







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ELECTRICAL DATA	
Wattage (Consumption)	50W
Voltage	AC 200-240V
Frequency	50/60 Hz
Dimming	Non-dimmable

PHOTOMETRICAL DATA	
Temperature (Kelvin)	4000K
Light color	Neutral white
Luminous flux	5,000 lm
Beam angle	120°
Color Rendering Index (CRI)	> 80 Ra
LED type	Sanan SMD 2835
Operating temperature range	-20 °C to +55 °C

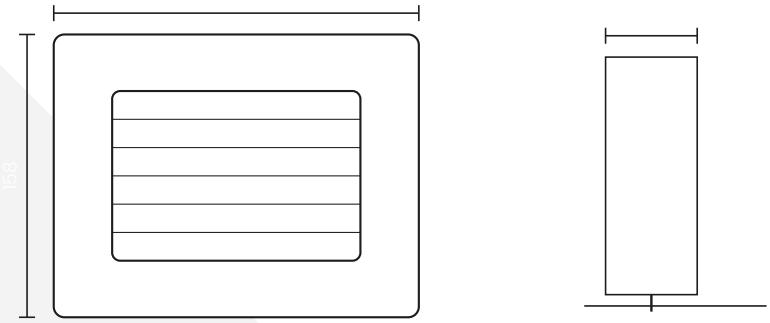
CAPABILITIES	
Dimmable	No (non-dimmable)
Motion sensor	PIR sensor, automatic ON/OFF
Mounting	Adjustable bracket, wall / ceiling / pole fixing
Cable	20 cm (pre-fitted)

LIFESPAN & WARRANTY	
Lifespan	50,000 hrs
Warranty	2 years

DIMENSIONS & PACKAGING	
Dimensions	204 x 158 x 32 mm
Net weight	0.45 kg
Gross weight	0.50 kg
Carton qty	20 pcs
Carton size	370×238×360 mm
Carton weight	11 kg

ADDITIONAL INFORMATION	
Driver	DOB (driver on board)
LED chip	Sanan SMD 2835
Sensor	PIR motion sensor
IP Rating	IP66
Housing	Die-cast aluminium + toughened glass
Certification	CE, RoHS

AVAILABLE MODELS	
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Schematic drawing, not to scale. Dimensions in mm (body excl. sensor and bracket)

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PIR SENSOR DATA	
Power source	220-240V AC, 50/60 Hz
Rated load	max. 200W resistive / max. 100W inductive
Detection range	120°
Detection distance	8 ±2 m (<24 °C), adjustable
Hold time	10 ±5 sec to 8 ±2 min, adjustable
Ambient light threshold	2-2000 lux, adjustable
Detection motion speed	0.6-1.5 m/s
Sensor working temperature	-10 °C to +40 °C
Installation height	1-3 m

SENSOR SETTINGS & OPERATION	
LUX	Sets the ambient light level below which the floodlight may switch on. Day setting: the sensor reacts day and night. Night setting: the sensor only reacts at night.
TIME	Sets how long the light stays on after the last detected movement. Each new movement restarts the hold time.
SENS	Sets the detection distance. A higher setting gives a longer detection distance, a lower setting a shorter one.
INDUCTION MODE	After power-up the sensor warms up for about 15 seconds. After that the floodlight switches on when movement is detected in the dark and switches off after the hold time.
NOTE	Detection distance and angle are influenced by ambient temperature, humidity and mounting height, so small deviations are possible. Check the sensor data above before installation.

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USER MANUAL | HOW TO USE

STEP 1 **Turn off the power**

Switch off the power supply first and make sure the supply cable is not energized. Installation must be done by a professional electrician only.

STEP 2 **Choose the position**

Choose a stable mounting surface (wall, ceiling or pole) with enough free space around the luminaire for heat dissipation.

STEP 3 **Fix the bracket**

Mark and drill the fixing holes and secure the bracket with screws and plugs suitable for the surface and the weight of the floodlight.

STEP 4 **Connect the wires**

Connect the supply cable to the mains: L (live), N (neutral) and earth (Class I luminaire). Use a connection box suitable for outdoor use.

STEP 5 **Check the wiring**

Double check that the wiring is correct and that the cable entry is properly sealed before switching on, to keep the IP66 protection.

STEP 6 **Adjust the angle**

Loosen the bracket screws, aim the floodlight in the required direction and tighten the screws firmly again.

STEP 7 **Turn on the power**

Turn on the power supply. The sensor warms up for about 15 seconds, then adjust LUX, TIME and SENS to the required settings.

STEP 8 **Maintenance**

Maintenance and repair must be done by trained professionals only. In case of damage to the power cable or the housing, stop using the luminaire.

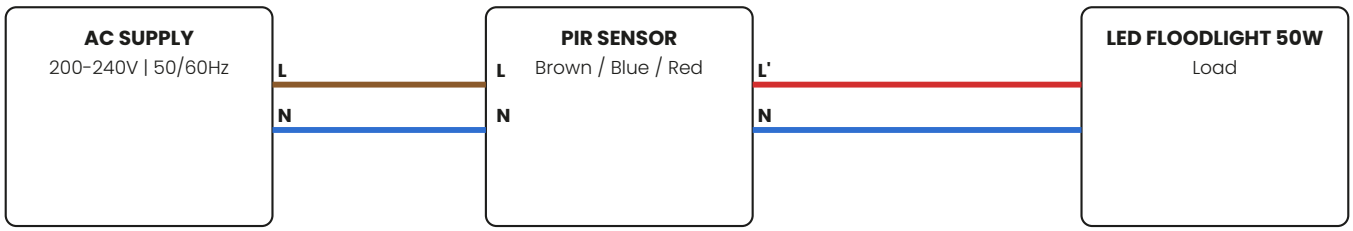
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WIRING DIAGRAM

Non-dimmable version: this product cannot be used in dimming circuits.



Brown = L (live) Blue = N (neutral) Red = L' (switched live to load)

SAFETY NOTICE:

- Installation must be done by a professional electrician only; non-professionals must not install, disassemble or connect wires (high voltage).
- Before installation disconnect the power supply and never work with the power on.
- If there is any damage on the power cable or the housing, the product must not be used.
- Use the light out of its package and check it for transport damage before installation.
- Never cover the luminaire and keep it away from open flames and external heat sources.
- Do not use the product outside its operating temperature range: this can damage the lamp.
- Avoid looking directly into the LED beam, especially for extended periods. Do not shine the light in anyone's eyes.
- Keep packaging material away from children and pets (risk of suffocation, small parts). Never leave children unattended near the lights.
- Maintenance by trained professionals only. Unauthorised disassembly may void the after-sales service.
- After its service life the product needs an inspection or special treatment for disposal.
- Non-dimmable version: this product cannot be used in dimming circuits.