DATA SHEET

VARNALUX

LED HIGH BAY 100W WITH SENSOR

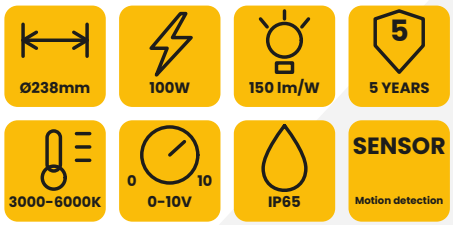
UFO DESIGN | MOTION SENSOR | 0-10V DIMMABLE | IP65



APPLICATION

- Workshops and factories
- Warehouses
- Highway toll stations and gas stations
- Supermarkets
- Exhibition halls and stadiums
- Corridors and staircases (automatic on/off)
- Dim places such as basement car parks and underpasses

AVAILABLE MODELS	
Color Temp	REF No
3000K	100214
4000K	100215
6000K	100216



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ELECTRICAL DATA	
Wattage (Consumption)	100W
Voltage	AC 200-240V
Operating voltage	DC 210V
Max. current	0.5A
Constant current	0.42A
Power Factor	>= 0.95
Dimming	0-10V
Electrical class	Class I

PHOTOMETRICAL DATA	
Temperature (Kelvin)	3000K, 4000K or 6000K
Light color	Warm, neutral or cool white
Luminous efficiency	140 lm/W (3000K) / 150 lm/W (4000K, 6000K)
Lumen	15,000 lm (3000K: 14,000 lm)
Beam angle	120° (optional 60° / 90°)
Color Rendering Index (CRI)	> 80
LED quantity	140 pcs (SMD2835)
Operating Temperature range	-20 °C to +50 °C

CAPABILITIES	
Dimmable	Yes, 0-10V
Motion sensor	Built-in microwave sensor (5.8GHz)
Optional beam optics	60° / 90°
Recommended mounting height	4-6 m

LIFESPAN & WARRANTY	
Lifespan	50.000 hrs
Warranty	5 years

DIMENSIONS & PACKAGING	
Dimensions	Ø238 x H118 mm
Net weight	1.8 kg
Gross weight	2.1 kg
Packing size	L280 x W280 x H140 mm
Outer box	4 pieces
Outer carton	585x295x320 mm
Carton gross weight	9.23 kg

ADDITIONAL INFORMATION	
Driver	Sosen
LED Chip	Lumileds / San'an SMD2835
IP Rating	IP65
IK Rating	IK10
Housing	Aluminium + PC lens
Storage temp.	-30 °C to +60 °C
Certificates	CE & ROHS

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SENSOR TECHNICAL DATA	
Operating voltage	10-15 VDC
Operating current	30 mA ±5%
Output	DIM 0-10V
Stand-by power	<= 0.5 W
Microwave frequency	5.8 GHz ±75 MHz
Microwave power	< 0.3 mW
Max. mounting height	15 m / 49.2 ft (ceiling mounted)
Detection range	Max. Ø14 m / 45.92 ft (ceiling)
Motion detection	0.5 - 1.5 m/s
Operating temperature	-20 °C to +60 °C
IP rating	IP65
Warranty	5 years

SETTINGS (VIA REMOTE)	
Detection area	25 / 50 / 75 / 100%
Hold time	5 s - 30 min
Daylight	2 - 120 lux / Disable
Stand-by period	0 s - 30 min / +∞
Stand-by dim	10 / 20 / 30 / 50%

FACTORY DEFAULT	
Detection area	100%
Hold time	5 s
Daylight	Disable
Stand-by period	0 s
Stand-by dim	10%

SENSOR FUNCTIONS & APPLICATION ENVIRONMENT

MODE 1 — Automatic ON/OFF

With a daylight threshold set, the light switches on when movement is detected and daylight is below the preset level, and off after the hold time once people have left. For corridors and staircases.

MODE 2 — No daylight function

Daylight threshold 'Disable': the light goes to 100% on movement, stays at 100% during the hold time and switches off after the stand-by period. For dim places such as basement car parks.

MODE 3 — Dimmable control

After the last detection and the hold time the light dims to the stand-by dimming level (10 / 20 / 30 / 50%). After the stand-by period the light switches off.

MODE 4 — Daylight priority

Dual-PD technology tells natural light from LED light and switches the light off above the preset lux level. Needs: stand-by period +∞, stand-by dimming 10 / 20 / 30%, daylight threshold 30 / 50 / 80 / 120 lux.

MODE 5 — Indoor installation

Suitable for indoor installation, to avoid false triggering by rain, wind or swinging trees.

MODE 6 — Where not to install

Not in a place enclosed on all four sides by metal or in a small space (such as a galvanised-iron roof), and not next to large machines such as ventilators or ceiling fans (vibration).

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USER MANUAL | HOW TO USE

STEP 1 **Unpack and check**

Open the box and take out the UFO luminaire, the mounting bolt and the spring washer. Use the light out of its package and check it for damage caused by transport. If any damage is visible, do not install or use it.

STEP 2 **Turn off the power**

Switch off the mains supply before starting any work on the luminaire. Installation must be done by a professional electrician only (high voltage).

STEP 3 **Mount the luminaire**

Tighten the mounting bolt and the spring washer to the UFO, then hang the luminaire securely from a suitable fixing point (hook, chain hoist or suspension rod). Never cover the luminaire with other objects.

STEP 4 **Connect the wires**

Connect the wires as shown in the wiring diagram on the next page: Brown = L, Blue = N, Yellow/Green = GND (earth). Supply: AC 200-240V.

STEP 5 **Set up the sensor (optional)**

The sensor works with its factory settings. To change detection area, hold time, daylight threshold, stand-by period or stand-by dimming, use the optional HD03R remote (REF 200076) - see the last page.

STEP 6 **Choose the location**

Install indoors. Avoid places where rain, wind or swinging trees can trigger the sensor, closed metal spaces, and positions next to large machines or fans (vibration).

STEP 7 **Turn on the power**

Switch on the mains supply. Never touch the luminaire while it is switched on and never look directly into the LED beam for a long time.

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.

PACKING INFO

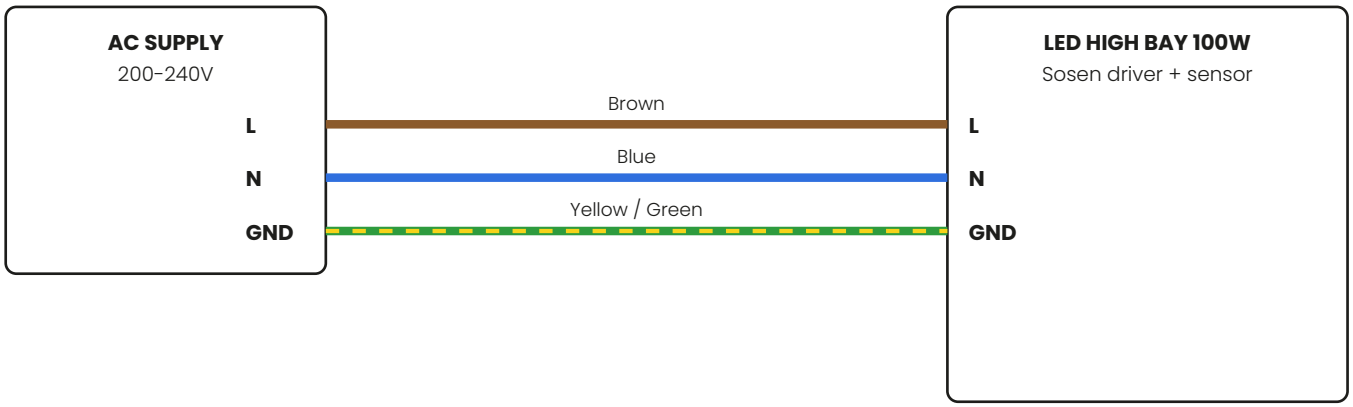
In the box	1 x luminaire with built-in sensor, 1 x mounting bolt, 1 x spring washer
Outer carton	4 pieces (585x295x320 mm), gross weight of carton: 9.23 kg

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WIRING DIAGRAM



SAFETY NOTICE:

- Installation must be done by a professional electrician only; non-professionals must not install, disassemble or connect wires (high voltage).
- If the power cable or the housing is damaged, 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.
- 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). Do not let children play near the luminaire.
- 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.

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REMOTE PROGRAMMING (HD03R) | A. MEMORY & APPLY MODE

STEP 1 **Switch the light**

Press the ON/OFF button to turn the light on or off. Press ON if the light was off at the start.

STEP 2 **Press Start**

Press Start to begin setting the sensor.

STEP 3 **Set the parameters**

Press Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after the other, in sequence. The interval between settings must stay within 30 s.

STEP 4 **Press Memory**

Press Memory to store the settings. They stay saved until you press Reset.

B. ISOLATED SETTING MODE

STEP 1 **Activate**

Press ON/OFF to turn the light on. Press Auto Mode: the remote activates the settings saved last, or the factory defaults.

STEP 2 **Start sensor mode**

Press any of the buttons Auto Mode, Reset, Test or Apply to begin the sensor detection mode.

STEP 3 **Set the parameters**

Press Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after the other, in sequence.

STEP 4 **Copy to other lights**

To give other lights in an array with similar sensors the same programme: press ON to the second sensor, then press Apply.

NOTES:

- Settings are saved automatically and remain until Reset is pressed again.
- The light flickers while each parameter is being set.
- The interval between two parameter settings must stay within 30 s, otherwise the remote exits memory mode.