

# PRODUCT DATASHEET Essential Orbis Sensor 230mm 12W 830 White

Essential Orbis Sensor | LED ceiling luminaire with plastic ring



## Areas of application

- Living areas (living rooms, dining rooms, bedrooms etc.)
- Entrance lighting

## Product benefits

- Long lifetime thanks to LED technology
- Excellent price/performance ratio

## **Product features**

- High frequency sensor for daylight and motion detection
- Color temperature: 3,000 K
- Lifetime up to 30,000 h
- Type of protection: IP20



# TECHNICAL DATA

# Electrical data

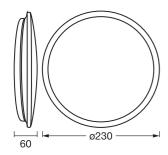
Nominal wattage	12.00 W
Nominal voltage	220240 V
Mains frequency	5060 Hz
Nominal current	110.000 mA
Inrush current	0.11 A
Inrush current time T <sub>h50</sub>	159 µs
Max. number of luminaires per miniature circuit breaker B16	87
Max. number of luminaires per miniature circuit breaker C10	90
Max. number of luminaires per miniature circuit breaker C16	145
Power factor $\lambda$	0.50
Total harmonic distortion	62 %
Protection class	I
Operating mode	Mains voltage

# Photometrical data

Luminous flux	900 lm
Total luminous flux of contained light sources	1400
Luminous efficacy	75 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	80
Standard deviation of color matching	6 sdcm
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	120 °

# Dimensions & Weight

Diameter	230.00 mm
Height	60.00 mm
Product weight	250.00 g



ORBIS ESS SEN 220MM 12W 830 WT

# Materials & Colors

Product color	White
Housing color	White
Body material	Metal
Cover material	Poly methyl methacrylate (PMMA) Acrylonitrile butadiene styrene (ABS)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

# **Application & Mounting**

Ambient temperature range	-20+40 °C
Temperature range at storage	-20+80 °C
Type of connection	Terminal, 3-Pole (L, N, PE)
Type of protection	IP20
Protection class IK (shock resistance)	IK03
Dimmable	No
Mounting type	Surface
Mounting location	Wall
With light source	Yes
Replaceable light source	No

# Lifespan

Lifespan L70/B50 at 25 °C	30000 h <sup>1)</sup>
Number of switching cycles	15000

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

## Sensor

Type of sensor	Light / Motion
Sensor technology	Microwave
Sensor detection angle	90 °
Sensor controlled switching time	30 s
Detection range of motion sensor	06 m
Detection threshold of daylight sensor	1530 lx

## **Emergency lighting**

## Certificates & Standards

Standards	CE / UKCA
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

## Additional product data

Product remark	Available from September 2025
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## **EQUIPMENT / ACCESSORIES**

- Mounting screws and dowels included

# Safety advice

- Luminaire must be disconnected from mains during installation, maintenance and cover removal
- Check wall-ceiling for suitability. If uncertain, seek professional advice.
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

# DOWNLOAD DATA

	Documents and certificates	Document name
POF	User instruction / safety instructions	Orbis Essential Sensor
POF	Declarations of conformity	CE Declaration Orbis Essential Sensor

	Documents and certificates	Document name
PDF	Declarations of conformity UKCA	UKCA Declaration Orbis Essential Sensor

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075855106	Folding box	83 mm x 253 mm x 255 mm	511.00 g	5.35 dm <sup>3</sup>
4058075855113	Shipping box	520 mm x 264 mm x 280 mm	3480.00 g	38.44 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

# **DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

White