

# PRODUCT DATASHEET

## Essential Orbis Sensor 230mm 12W 830 White

Essential Orbis Sensor | LED ceiling luminaire with plastic ring



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### Areas of application

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

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### Product benefits

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

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### 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

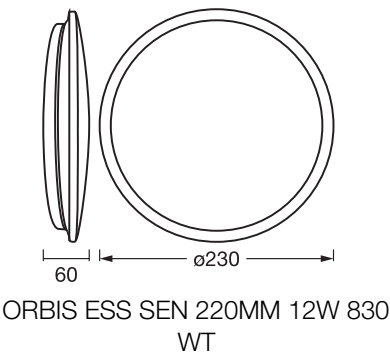
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 12.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 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 λ                                              | 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 sdc <sub>m</sub> |
| 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  |



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                 |

1) 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       | 0...6 m        |
| Detection threshold of daylight sensor | 15...30 lx     |

## Emergency lighting

|                                  |      |
|----------------------------------|------|
| Type of emergency operation test | None |
|----------------------------------|------|

## 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 |
|----------------|-------------------------------|

## 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                         |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|
|  | User instruction / safety instructions | Orbis Essential Sensor                |
|  | Declarations of conformity             | CE Declaration Orbis Essential Sensor |

| Documents and certificates                                                       |                                 | Document name                           |
|----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|
|  | 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<br>1             | 83 mm x 253 mm x 255 mm              | 511.00 g     | 5.35 dm³  |
| 4058075855113 | Shipping box<br>6            | 520 mm x 264 mm x 280 mm             | 3480.00 g    | 38.44 dm³ |

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.