PRODUCT DATASHEET
Essential Orbis Sensor 380mm 24W 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
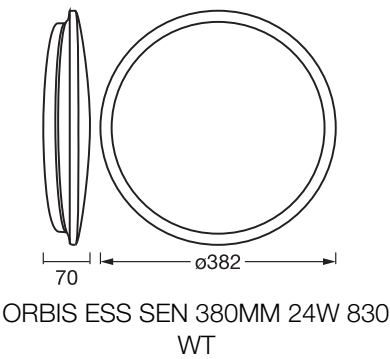
TECHNICAL DATA

Electrical data

Nominal wattage	24.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	220.000 mA
Inrush current	0.22 A
Inrush current time T_{h50}	148 µs
Max. number of luminaires per miniature circuit breaker B16	43
Max. number of luminaires per miniature circuit breaker C10	45
Max. number of luminaires per miniature circuit breaker C16	72
Power factor λ	0.50
Total harmonic distortion	69 %
Protection class	I
Operating mode	Mains voltage

Photometrical data

Luminous flux	1800 lm
Total luminous flux of contained light sources	2700
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	382.00 mm
Height	70.00 mm
Product weight	740.00 g

ORBIS ESS SEN 380MM 24W 830
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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 [1]
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
PDF	User instruction / safety instructions	Orbis Essential Sensor

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075855144	Folding box 1	93 mm x 405 mm x 407 mm	1178.00 g	15.33 dm^3
4058075855151	Shipping box 5	479 mm x 420 mm x 432 mm	6877.00 g	86.91 dm^3

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.