

# PRODUCT DATASHEET

## SF CIRC 250 SEN V 13W 840 IP44

SURFACE CIRCULAR 250 SENSOR | Wall and ceiling luminaire with IP44 and high frequency sensor



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### Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

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### Product benefits

- Easy adjustment of sensor range, daylight detection and hold time
- Indoor luminaire with high luminous efficacy
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light
- 3 years guarantee

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### Product features

- High frequency sensor for daylight and motion detection
- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Impact resistance: IK03
- Metal housing, PMMA cover
- Ambient temperature in operation: -20...+40 °C
- Indoor use only, not suitable for outdoor use

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## TECHNICAL DATA

### Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 13.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 100 mA                |
| Inrush current                                              | 6.7 A                 |
| Inrush current time $T_{h50}$                               | 228 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 75                    |
| Max. number of luminaires per miniature circuit breaker C10 | 58                    |
| Max. number of luminaires per miniature circuit breaker C16 | 94                    |
| Power factor $\lambda$                                      | > 0.55                |
| Total harmonic distortion                                   | < 120 %               |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 960 lm     |
| Luminous efficacy                            | 75 lm/W    |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | > 80       |
| Standard deviation of color matching         | < 6 sdcm   |
| Luminous intensity                           | -          |
| Low flicker                                  | Yes        |
| Flickering metric (Pst LM)                   | -          |
| Stroboscope effect metric (SVM)              | -          |
| Photobiological safety group acc. to EN62778 | RG0        |
| Photobiological safety group acc. to EN62471 | RG0        |
| Beam angle                                   | 120 °      |

## Materials & Colors

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|                                            |                               |
|--------------------------------------------|-------------------------------|
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | PMMA                          |
| 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-pin    |
| Type of protection                     | IP44 <sup>1)</sup> |
| Protection class IK (shock resistance) | IK03               |
| Dimmable                               | No                 |
| Mounting type                          | Surface            |
| Mounting location                      | Ceiling / Wall     |
| Application environment                | Indoor             |
| With light source                      | Yes                |

<sup>1)</sup> Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 30000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 22000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 22000 h               |
| Lifespan L90/B10 at 25 °C  | 15000 h               |
| Number of switching cycles | 50000                 |

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

### Control gear

|                |        |
|----------------|--------|
| Output current | 145 mA |
|----------------|--------|

### Sensor

|                                        |                |
|----------------------------------------|----------------|
| Type of sensor                         | Motion / Light |
| Sensor technology                      | Microwave      |
| Sensor detection angle                 | 120 °          |
| Sensor controlled switching time       | 5 s...30 min   |
| Detection range of motion sensor       | 4...7 m        |
| Detection threshold of daylight sensor | 2...50 lx      |
| Sensor IP rating                       | IP44           |

### Certificates & Standards

|                                                      |                               |
|------------------------------------------------------|-------------------------------|
| Standards                                            | CE / CB / TÜV SÜD / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | No                            |
| Ball shot safe                                       | No                            |
| EPD                                                  | LEDV-00010-V01.01-EN          |
| Replaceable light source (EPREL)                     | Not replaceable               |

## EQUIPMENT / ACCESSORIES

- Replacement cover optional available

## Safety 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 | SURFACE CIRCULAR SENSOR            |
|  | Legal information                      | LS Insert SF Circular              |
|  | Legal information                      | LS Insert SF Circular              |
|  | Legal information                      | Legal Insert SF CIRC SEN V IP44    |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | CE Declaration SF CIRC SEN         |
|  | Declarations of conformity UKCA        | SF CIRC IP44                       |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | IES file (IES)                         | SF CIRC 250 SEN V 13W 840 IP44     |
|  | LDT file (Eulumdat)                    | SF CIRC 250 SEN V 13W 840 IP44     |
|  | ULD file (DIALux)                      | SF CIRC 250 SEN V 13W 840 IP44     |

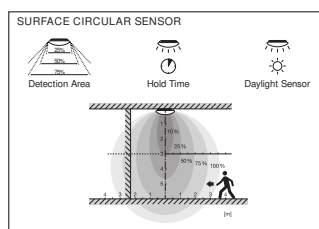
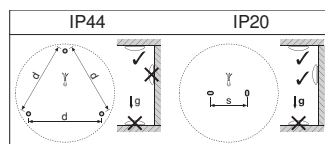
| Photometric and lighting design files                                            |                                     | Document name                               |
|----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
|  | ROLF file (RELUX)                   | SF CIRC 250 SEN V 13W 840                   |
|  | UGR file (UGR table)                | SF CIRC 250 SEN V 13W 840 IP44              |
|  | Light distribution curve type cone  | SF CIRC 250 SEN V 13W 840 IP44              |
|  | Light distribution curve type polar | SF CIRC 250 SEN V 13W 840 IP44              |
| CAD/BIM files                                                                    |                                     | Document name                               |
|  | BIM Revit 3D                        | SURFACE CIRCULAR                            |
|  | CAD STEP 3D                         | SF CIRC 250                                 |
| Tender texts                                                                     |                                     | Document name                               |
|  | Tender documents                    | SURFACE CIRCULAR 250 SENSOR 13W 840 IP44-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075617926 | Folding box<br>1             | 280 mm x 282 mm x 98 mm              | 308.00 g     | 7.74 dm <sup>3</sup>  |
| 4058075617933 | Shipping box<br>5            | 525 mm x 305 mm x 315 mm             | 2162.00 g    | 50.44 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.

## ADDITIONAL CATALOG INFORMATION



## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

## DISCLAIMER

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