

# PRODUCT DATASHEET

## BLKH COMP RC EL SN V 11W MS 840 WT

BULKHEAD COMPACT RECTANGULAR EMERGENCY SENSOR | Robust wall and ceiling luminaire with IP65 protection, high-frequency sensor and integrated emergency lighting function



### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairways, entrance areas
- Passages, underpasses
- Public areas

### Product benefits

- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen) on the driver
- Multiple adjustments of sensor range, daylight detection and hold time
- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in public areas thanks to high IK rating
- Convenient visualization of results of automatic test with an included control LED
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function

### Product features

- High frequency sensor for daylight and motion detection
- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suited for normal lighting and emergency lighting



- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO<sub>4</sub>
- Ambient temperature in operation: +5...+45 °C
- Type of protection: IP65
- Impact resistance: IK10

## TECHNICAL DATA

### Electrical data

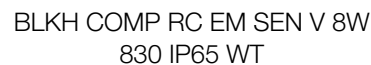
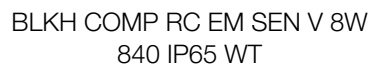
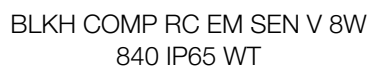
|                                                             |                                |
|-------------------------------------------------------------|--------------------------------|
| Nominal wattage                                             | 11 W / 9 W / 7 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V                    |
| Mains frequency                                             | 50/60 Hz                       |
| Nominal current                                             | 81...73...66 mA                |
| Inrush current                                              | 4 A                            |
| Inrush current time T <sub>h50</sub>                        | 180 µs                         |
| Max. number of luminaires per miniature circuit breaker B16 | 104                            |
| Max. number of luminaires per miniature circuit breaker C10 | 87                             |
| Max. number of luminaires per miniature circuit breaker C16 | 140                            |
| Power factor λ                                              | > 0.5                          |
| Total harmonic distortion                                   | < 64 %                         |
| Protection class                                            | II                             |
| Operating mode                                              | Integrated LED driver          |

<sup>1)</sup> For possible options refer to lumen/power table image

### Photometrical data

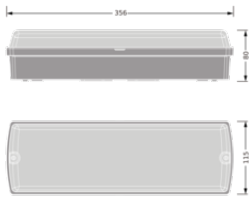
|                                                              |                                        |
|--------------------------------------------------------------|----------------------------------------|
| Luminous flux                                                | 840 lm / 690 lm / 500 lm <sup>1)</sup> |
| Luminous efficacy                                            | 76 lm/W / 71 lm/W <sup>1)</sup>        |
| Color temperature                                            | 3000 K / 4000 K                        |
| Reference control setting of contained light source (Kelvin) | 4000 K                                 |
| Light color (designation)                                    | Warm White / Cool White                |
| Color rendering index Ra                                     | > 80                                   |
| Standard deviation of color matching                         | 5 sdcm                                 |
| Low flicker                                                  | Yes                                    |
| Flickering metric (Pst LM)                                   | <1                                     |
| Stroboscope effect metric (SVM)                              | <0.4                                   |
| Photobiological safety group acc. to EN62778                 | RG0                                    |
| Beam angle                                                   | 125 °                                  |

<sup>1)</sup> For possible options refer to lumen/power table image



| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 11 W            | 3000 K            | 800 lm        | 72 lm/W           |
| 11 W            | 4000 K            | 840 lm        | 76 lm/W           |
| 9 W             | 3000 K            | 660 lm        | 73 lm/W           |
| 9 W             | 4000 K            | 690 lm        | 76 lm/W           |
| 7 W             | 3000 K            | 500 lm        | 71 lm/W           |
| 7 W             | 4000 K            | 500 lm        | 71 lm/W           |

|                |           |
|----------------|-----------|
| Length         | 356.00 mm |
| Width          | 115.00 mm |
| Height         | 80.00 mm  |
| Product weight | 800.00 g  |



SF BLKH COMP RECTANGULAR

Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| Body material                              | Polycarbonate (PC) |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

Application & Mounting

|                                        |                    |
|----------------------------------------|--------------------|
| Ambient temperature range              | +5...+45 °C        |
| Temperature range at storage           | -20...+80 °C       |
| Type of connection                     | Screwless terminal |
| Type of protection                     | IP65               |
| Protection class IK (shock resistance) | IK10               |
| Dimmable                               | No                 |
| Mounting type                          | Surface            |
| Mounting location                      | Ceiling / Wall     |
| Application environment                | Outdoor            |
| With light source                      | Yes                |

Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 40000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 45000 h               |
| Lifespan L90/B10 at 25 °C  | 20000 h               |
| Number of switching cycles | 100000                |

1) 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              | 220...165...115 mA |
| ECG - Output ripple current | < 5 %              |

### Sensor

|                                        |                |
|----------------------------------------|----------------|
| Type of sensor                         | Motion / Light |
| Sensor technology                      | Microwave      |
| Sensor detection angle                 | 150 °          |
| Sensor controlled switching time       | 5 s...30 min   |
| Detection range of motion sensor       | 2...8 m        |
| Detection threshold of daylight sensor | 2...50 lx      |
| Sensor IP rating                       | IP20           |

### BATTERY

|                             |          |
|-----------------------------|----------|
| Type of Battery             | LiFePO4  |
| Battery size [GMS]          | Others   |
| Nominal voltage of battery  | 3.2 V    |
| Nominal capacity of battery | 4500 mAh |
| Battery charging time       | 24 h     |

### Emergency lighting

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| Area of emergency application              | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation          | Non-maintained / Maintained                 |
| Type of emergency operation test           | Automatic                                   |
| Wattage in maintained operation mode       | 11 W                                        |
| Wattage in emergency operation mode        | 3 W                                         |
| Luminous flux in maintained operation mode | 840 lm                                      |
| Luminous flux in emergency operation mode  | 300 lm                                      |
| Battery life in emergency operation mode   | 3 h                                         |
| Integrated test switch                     | No                                          |

### Certificates & Standards

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Standards                                            | CE / CB / UKCA / EAC |
| 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 March 2025 |
| Added function | MULTI SELECT              |

## EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included
- Anti-theft screw included

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                        |
|------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|
|  | User instruction / safety instructions | BULKHEAD COMPACT EM SEN              |
|  | Legal information                      | LSI BULKHEAD COMPACT EM              |
|  | Legal information                      | Safety Insert G11218823              |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG   |
|  | Legal information                      | Legal Insert G11193421               |
|  | Declarations of conformity             | BLKH COMP RC EL SN                   |
|  | Declarations of conformity UKCA        | BLKH COMP RC EL SN V                 |
| Photometric and lighting design files                                              |                                        | Document name                        |
|  | IES file (IES)                         | BLKH COMP RC EM SEN V 8W 830 IP65 WT |
|  | IES file (IES)                         | BLKH COMP RC EM SEN V 8W 840 IP65 WT |

| Photometric and lighting design files                                             |                                     | Document name                        |
|-----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|
|   | LDT file (Eulumdat)                 | BLKH COMP RC EM SEN V 8W 830 IP65 WT |
|   | LDT file (Eulumdat)                 | BLKH COMP RC EM SEN V 8W 840 IP65 WT |
|   | UGR file (UGR table)                | BLKH COMP RC EM SEN V 8W 830 IP65 WT |
|   | UGR file (UGR table)                | BLKH COMP RC EM SEN V 8W 840 IP65 WT |
|   | Light distribution curve type cone  | BLKH COMP RC EM SEN V 8W 830 IP65 WT |
|   | Light distribution curve type cone  | BLKH COMP RC EM SEN V 8W 840 IP65 WT |
|   | Light distribution curve type polar | BLKH COMP RC EM SEN V 8W 830 IP65 WT |
|   | Light distribution curve type polar | BLKH COMP RC EM SEN V 8W 840 IP65 WT |
| CAD/BIM files                                                                     |                                     | Document name                        |
|   | BIM Revit 3D                        | Bulkhead Compact Rectangular         |
|  | CAD STEP 3D                         | BLKH COMP                            |

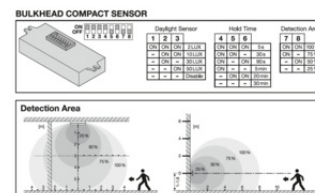
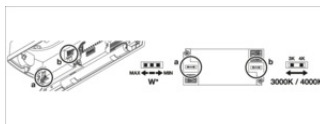
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854290725 | Folding box<br>1             | 85 mm x 128 mm x 390 mm              | 890.00 g     | 4.24 dm <sup>3</sup>  |
| 4099854290732 | Shipping box<br>6            | 400 mm x 400 mm x 200 mm             | 6040.00 g    | 32.00 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

| BLKH COMP RC EMSEN |      |      |      |      |      |      |
|--------------------|------|------|------|------|------|------|
| W                  | 11   |      | 9    |      | 7    |      |
| T                  | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 |
| lm                 | 840  | 800  | 690  | 660  | 500  | 500  |
| lm/W               | 76   | 72   | 76   | 73   | 71   | 71   |



## References / Links

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

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## DISCLAIMER

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