

## OWA SU LED



IP65

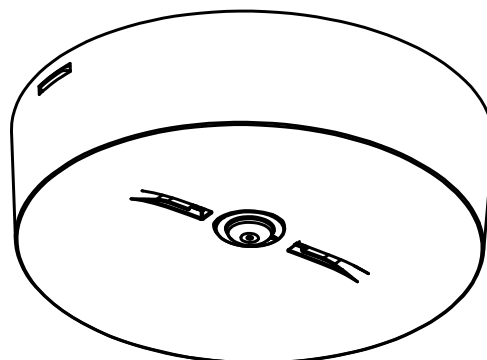
INSTALLATION AND MAINTENANCE MANUAL **EN**

## MOUNTING TYPE

Directly to the ceiling. For other mounting types, see MOUNTING KITS in luminaire datasheet

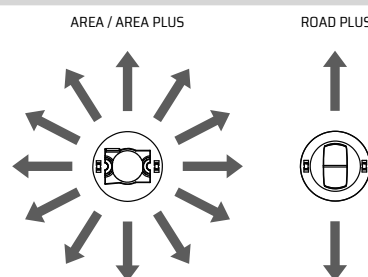
## SYSTEM VARIANT

- CB** - luminaire supplied from HVCBS (230V AC/216V DC), without address module
- CBAM** - luminaire supplied from the HVCBS (230V AC/216V DC), with built-in address module and operating mode selection
- LV** - luminaire supplied with 24V DC from the LVDBS system, without address module
- LVAM** - luminaire supplied with 24V DC from the LVDBS system, with built-in address module and operating mode selection



## OPTICS

- AREA** - (AR) symmetrical light distribution in all directions, recommended for use in places of considerable height or to illuminate fire points
- AREA PLUS** - (AP) symmetrical light distribution in all directions, ensuring adequate illumination on a large area
- ROAD PLUS** - (RP) light distribution mainly along the escape route with a much greater range than for the ROAD optics, for small heights



## TECHNICAL DATA

Supply voltage	<b>CB/ CBAM</b>	230V AC 50/60HZ 170-275V DC
	<b>LV/LVAM</b>	15-32V DC
Current consumption (1W/2W/3W)	<b>CB</b>	9/17/23 mA @216V DC
	<b>CBAM</b>	10/18/24 mA @216V DC
	<b>CBAM NM</b>	0,8W - 4,8 mA @216V DC
	<b>LV</b>	71/121/181 mA @24V DC
	<b>LVAM</b>	85/135/195 mA @24V DC
	<b>LVAM NM</b>	12 mA @24V DC
Protection class	<b>CB/CBAM</b>	I
	<b>LV/LVAM</b>	III
Ingress protection		IP65
Impact protection level	<b>AR, AP</b>	IK07
	<b>RP</b>	IK09
Light source type		LED module <sup>1)</sup>

Light source temperature	5700K	
Light source supply power	1W, 2W, 3W	
Light source lifespan	> 50 000h	
Ambient temperature range (1-2W)	CB/ CBAM	-10 - +45°C; TE: <sup>2)</sup> -25 - +55°C
	LV/LVAM	-10 - +55°C
Ambient temperature range (3W)	CB/ CBAM	-10 - +40°C; TE: <sup>2)</sup> -25 - +45°C
	LV/LVAM	-10 - +45°C
Supply cable cross-section area	0,5 - 2,5mm <sup>2</sup>	
Supply cable diameter	≤ 16mm	
Communication cable diameter	≤ 7mm	
Suitable for through wiring	YES	
Suitable for surface wiring	NO	

<sup>1)</sup> Non-exchangeable but serviceable light source; <sup>2)</sup> TE -extended temperature range

## SAFETY

- During the installation and usage of emergency luminaires, follow the national safety rules as well as generally accepted technical rules.
- Supply voltage should never be removed from the permanent phase by any external switches, relays or contactors (BMS, wall switch, etc.).
- During usage of emergency luminaires keep a register of inspection reports. Luminaire installation or maintenance has to be preceded by turning off the power supply and battery.
- Ensure that all foreign bodies are removed before the luminaire power is switched on.
- The luminaire is to be used undamaged and in accordance with specifications.
- The luminaire is designed for use inside the building.

The above-mentioned luminaire is a fire protection equipment and therefore falls within relevant standards and regulations.

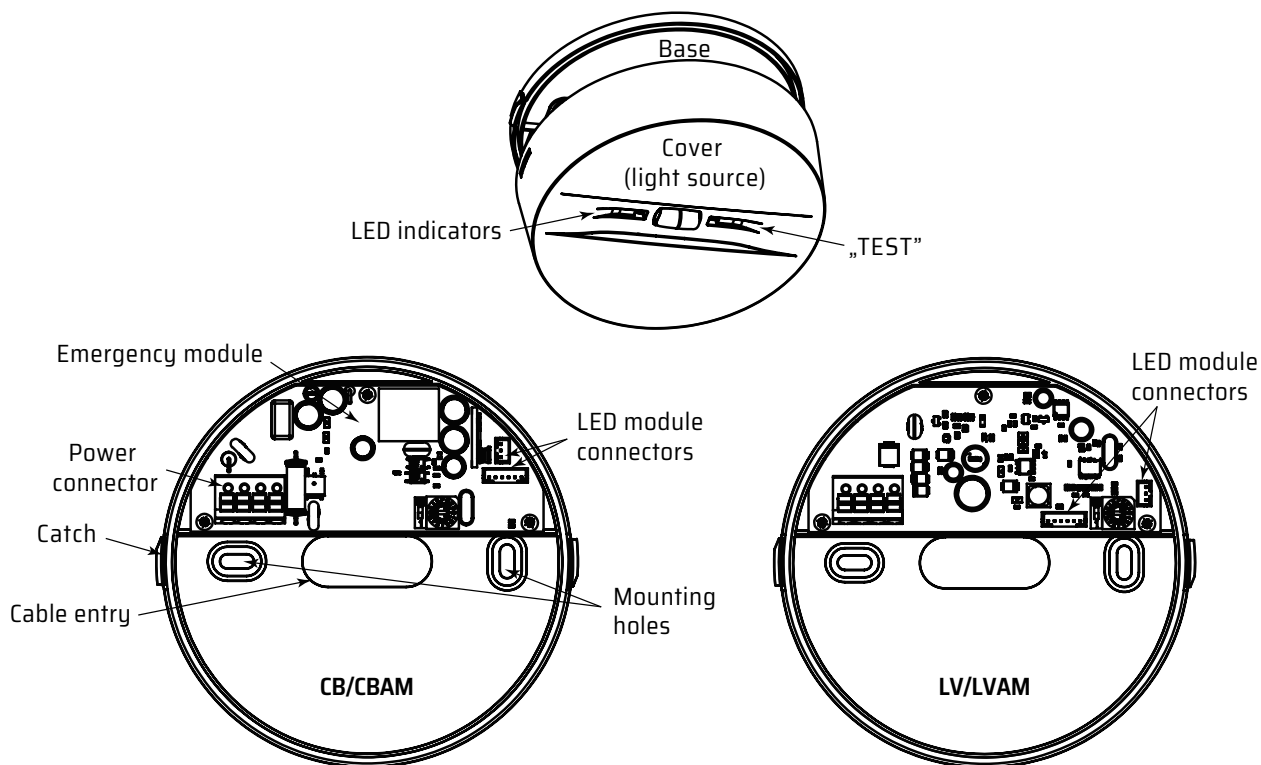


**NOT OBEYING THE SAFETY INSTRUCTIONS AND RECOMMENDATIONS CAN CAUSE LIFE THREAT OR EVEN DEATH**  
Not obeying this instruction manual can result in luminaire damage and loss of warranty

**DO NOT STARE AT THE OPERATING LIGHT SOURCE**

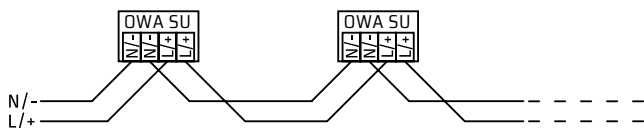
The luminaire should be positioned so that prolonged staring into the luminaire at a distance closed than 0.5m is not expected

## LUMINAIRE CONSTRUCTION

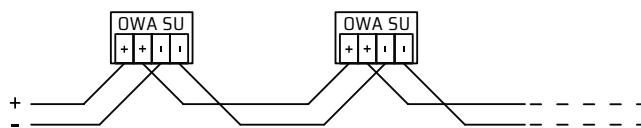


## WIRING DIAGRAM

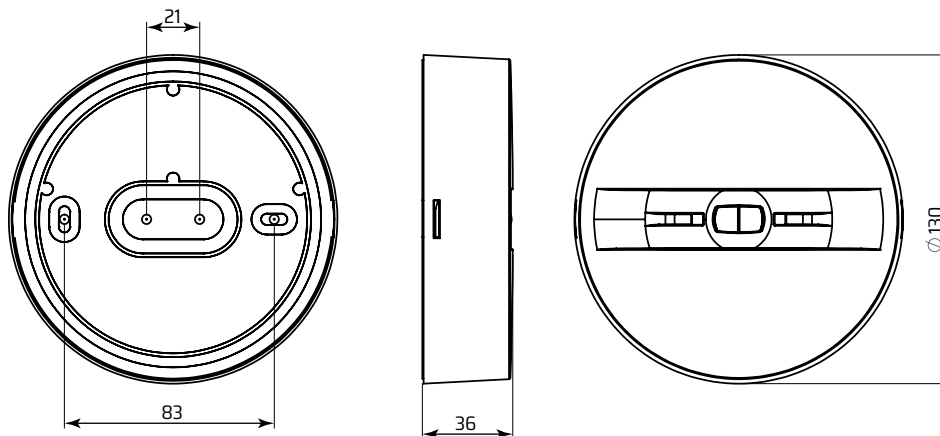
CB/CBAM



LV/LVAM



## DIMENSIONS (MM)



## LED INDICATORS AND LUMINAIRE CONTROL

Access to manual luminaire control is available by closing and holding a magnet near the magnetic switch marked „TEST“ (see LUMINAIRE CONSTRUCTION). Entering the menu is signaled, this is followed by long flashes indicating individual functions, and then signaling of exiting the menu. Removal of the magnet during individual menu flashes will activate the appropriate function of the luminaire:

1. Start functional test (A TEST)
2. Switch between maintained and non-maintained mode
3. Present luminaire address

Abort the manual test in progress by closing the magnet to the magnetic switch marked „TEST“ for one second.

### RED AND GREEN LED INDICATORS

**MENU ENTERING:** three short flashes: red, green, red;

**MENU EXITING:** two short flashes: red, green;

### MENU:

**Long flashes by green LED indicator:** 1-3 menu positions;

**Address present (short flashes):** red → tens, green → ones; repeated three times.

## LUMINAIRE STATE SIGNALLING

green	red	signaling
●	○	luminaire operating properly, battery fully charged
○	●/●	test being executed
○	●	control module malfunction, light source failure, battery disconnected

○ - off, ● - on, ●/● - blinks

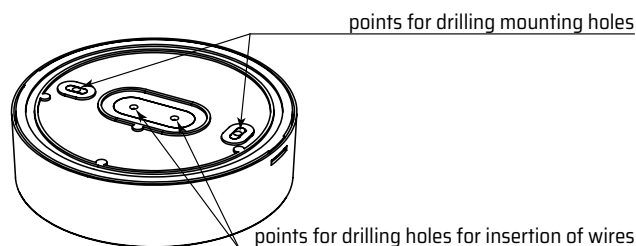


### BEFORE ANY INSTALLATION OR MAINTENANCE OPERATION IS PERFORMED ON THE LUMINAIRE THE POWER SUPPLY SHOULD BE DISCONNECTED.

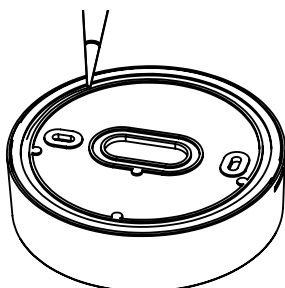
All installation and maintenance procedures can be performed only by qualified, properly trained and if appropriate, certified staff.

## INSTALLATION

1. Unpack the luminaire after transport and verify its condition.
2. Drill the required holes in the luminaire body - maximum Ø15 for power cables and fixing screws. It is recommended to drill the holes not exceeding 600 rpm.



3. Drill holes in a ceiling according to mounting hole spacing (see DIMENSIONS) and in case of ROAD PLUS in the light direction (see OPTICS), so that the cables coming from the ceiling go freely through the hole provided for this purpose. Use Ø6-Ø8mm dowels and Ø4mm screws, suitable for surface material to which the luminaire is mounted.
4. Put neutral silicone along the dedicated groove on the back of luminaire base. Enough to seal luminaire to the ceiling. (not required when the protection IP20 is sufficient).



5. Insert the power cable and the communication cable (for CT) through the hole in the luminaire base and screw it to the ceiling.

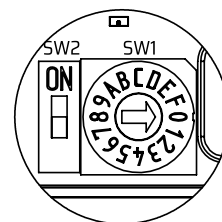
NOTE! The ceiling must be even, it must not have any irregularities or curves on the contact surface of the luminaire with the ceiling.

6. Connect the power supply cables from the HVCBS/LVDBS system according to the appropriate wiring diagrams, strip 10-11mm of wire copper insulation. Place the wires so that the cover may be mounted without any obstacles. **Pay special attention to the luminaire supply voltage!**

7. In case of luminaires with built-in address module (CBAM/LVAM) set luminaire address and mark the operating mode:

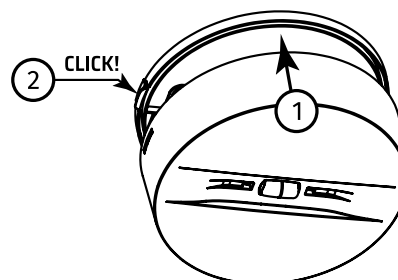
- a. Mark the operating mode on the luminaire label: mark **0** for the maintained mode and **1** for the non-maintained mode.
- b. Using the rotary switch SW1 and slider switch SW2 set luminaire address, according to the following table (ON = 1, OFF = 0).

SW2	SW1	Address	SW2	SW1	Address
0	1	1	1	1	11
0	2	2	1	2	12
0	3	3	1	3	13
0	4	4	1	4	14
0	5	5	1	5	15
0	6	6	1	6	16
0	7	7	1	7	17
0	8	8	1	8	18
0	9	9	1	9	19
0	A	10	1	A	20



8. Mount luminaire housing on the base.

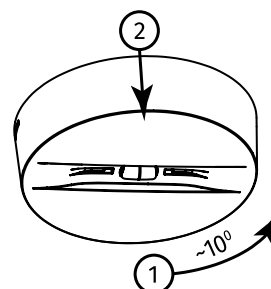
Pay attention to the placement of lock latches. A "click" sound appears when closing the luminaire.



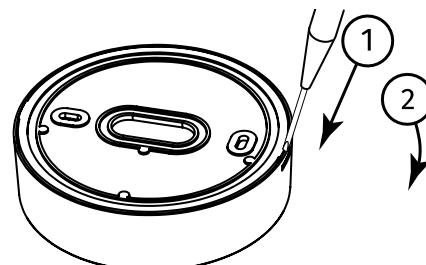
9. Perform the commissioning procedure.

### Opening the luminaire:

The luminaire opens by turning the housing counterclockwise by an angle of 10° and pulling it down.



If there is a need to open a not mounted luminaire, use a small flat screwdriver, insert it from top next to the latch (ceiling facing side from luminaire base) and unbend the housing gently to release the latch from the catch.



## COMMISSIONING

After all installation procedures are finished, luminaire operation needs to be verified.  
Follow the instructions below:

1. Switch the luminaire power supply on the HVCBS (CB, CBAM) or LVDBS (LV, LVAM) system.
2. For luminaires without built-in address module (CB, LV):
  - a. Leave luminaire operating and verify light source operation – should be operating.
  - b. Turn off luminaire power supply.
3. For luminaires with built-in address module:
  - a. Configure the HVCBS/LVDBS system.
  - b. Configure HVCBS/LVDBS circuit as maintained.
  - c. If required, switch between maintained and non-maintained luminaire operating mode.
  - d. Run the functional test on HVCBS/LVDBS system.
  - e. Verify luminaire operation. The light source should operate properly.
  - f. Verify if the HVCBS/LVDBS system reports proper luminaire operation.

## MAINTENANCE

Luminaire should be cleaned with a damp cloth according to building maintenance plan.  
Do not use abrasive cleaners, solvents, substances and cleaning agents containing alcohol to clean the light source.  
The light source used in this luminaire may only be replaced by the manufacturer, his service agent or a similar qualified person.

## STORAGE

The luminaire should be stored no longer than 12 months from the date of purchase, in a dry place with an ambient temperature range of -10 – +30°C.

## WARRANTY

Warranty is valid and enforceable only when manufacturer's recommendations are preserved, and the installation and usage are proper.  
Warranty is granted for a period of 12 months from the date of sale, unless the luminaire has been sold under different contract conditions.  
The warranty is excluded in case of misuse, unsuitable use, wrong connection or mechanical defects of the luminaire caused by the client.