OWA FL LED



INSTALLATION AND MAINTENANCE MANUAL

MOUNTING TYPE

FL - (FLUSH MOUNTED) mounting in a suspended ceiling

SYSTEM VARIANT

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

OPTICS

- AR AREA open area optics for high ceiling altitudes or for the illumination of fire protection equipment
- AP AREA PLUS open area optics for low and medium ceiling altitudes
- RP ROAD PLUS evacuation (corridor) optic for low and medium ceiling altitudes

TECHNICAL DATA

	CB	230V AC 50/60Hz 80 – 275V DC		
Supply voltage	CBAM	230V AC 50/60Hz 170 – 275V DC		
	LV/LVAM		8 – 32V DC	
Light source supply	1W, 2W, 3W			
Housing colour		RAL9016 (white)	RAL7042 (grey)	RAL9005 (black)
		AP : 142lm	AP : 136lm	AP : 123lm
Minimum luminous	AR : 148lm	AR : 142lm	AR : 129lm	
		RP : 145lm	RP : 139lm	RP : 126lm
		AP : 233lm	AP : 223lm	AP : 202lm
Minimum luminous	AR : 243lm	AR : 233lm	AR : 211lm	
	RP : 238lm	RP : 228lm	RP : 207lm	
Minimum luminous flux (3W)		AP : 340lm	AP : 326lm	AP : 295lm
		AR : 355lm	AR : 341lm	AR : 309lm
		RP : 347lm	RP : 333lm	RP : 302lm
	CB @ 216V DC	7mA	/ 14mA / 2	OmA
Current consumption (1W / 2W / 3W)	CBAM @ 216V DC	. 11mA	. / 18mA / 2	4mA
	LV @ 24V DC	71mA / 118mA / 190mA		
	lvam @ 24V DC	76mA	/ 122mA / 1	194mA

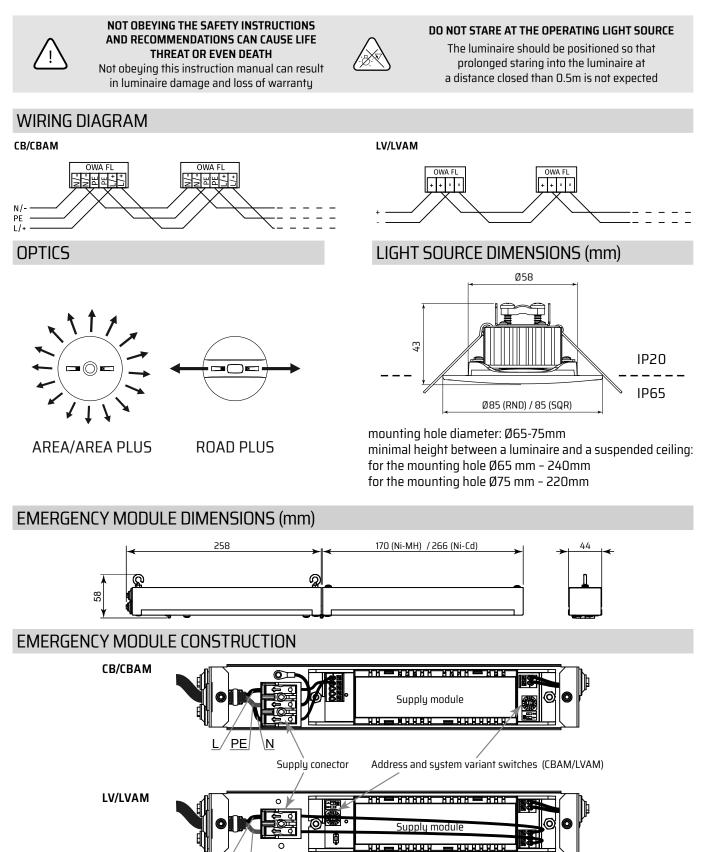
Power factor		0,4 - 0,6		
Protection class		1		
Ingress protection of light source/emergency module		IP65 / IP20		
Light source type	LED module ¹⁾			
Light source temperat	5700K			
Colour rendering inde	70			
Light source lifespan		> 50 000h		
Ambient temperature range (1W)	CB/CBAM	TS (standard): -10 - +60°C TE (extended): -25 - +60°C		
Ambient temperature range (2W, 3W)	LV/LVAM CB/CBAM	-25 - +60°C TS (standard): -10 - +55°C TE (extended): -25 - +55°C		
	LV/LVAM	-25 - +55°C		
Supply cable cross-section area		0,5 - 2,5mm²		
Supply cable diamete	< 8mm			
Suitable for through v	YES			

*)Non-exchangeable but serviceable light source.

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.





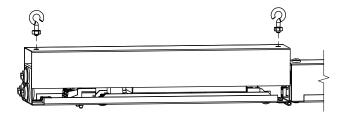
BEFORE ANY INSTALLATION OR MAINTENANCE OPERATION IS PERFORMED ON THE LUMINAIRE THE POWER SUPPLY SHOULD BE DISCONNECTED. All installation and maintenance procedures can be performed only by qualified, properly trained and if appropriate, certified staff.

INSTALLATION

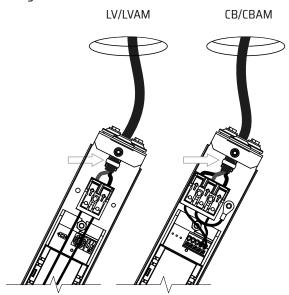
1. Unpack the luminaire after transport and verify its condition.

2. Cut a hole with the Ø65-75mm diameter in the suspended ceiling.

3. Remove the emergency lighting module housing cover.

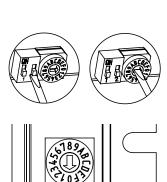


4. Lead the power cables from the hole and connect them to the power supply connector according to the wiring diagram, strip 7–8mm of wire copper insulation. After connecting secure the wires with a cable tie as shown in the drawing below.



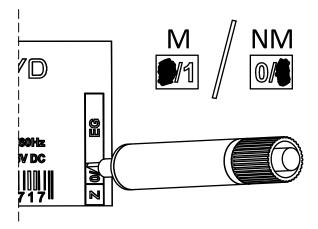
- 5. In case of luminaires with built-in address module (CBAM/ LVAM) set luminaire address and operating mode.
 - Using the rotary switch SW2 and second slider of SW1 switch set the luminaire address.



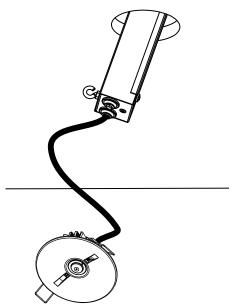




- b. Using the first slider of SW1 switch select the operating mode. Switch position 0 - non-maintained operating mode (NM), switch position 1 - maintained operating mode (M).
- c. Mark the operating mode on the luminaire label. Mark 0 for maintained mode and 1 for non-maintained mode.



6. Place the emergency module in the ceiling.



7. Apply the silicone along the luminaire backside. A sealing is not required when ingress protection IP20 is sufficient.

Bend the springs fixing the luminaire upwards and slide the luminaire into previously prepared mounting hole in the ceiling, press it to seal the luminaire. Pay attention to the direction of the luminaire optics (see page 2).





8. Perform the commissioning procedure.

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 6 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.