HYBRYD

CRYSTAL II SGN

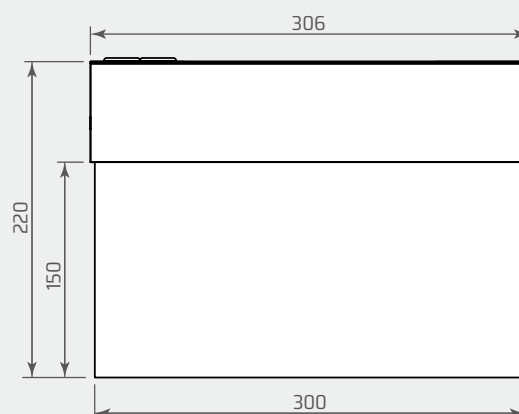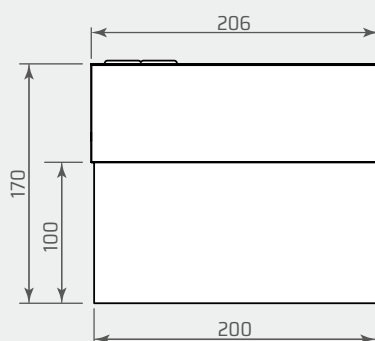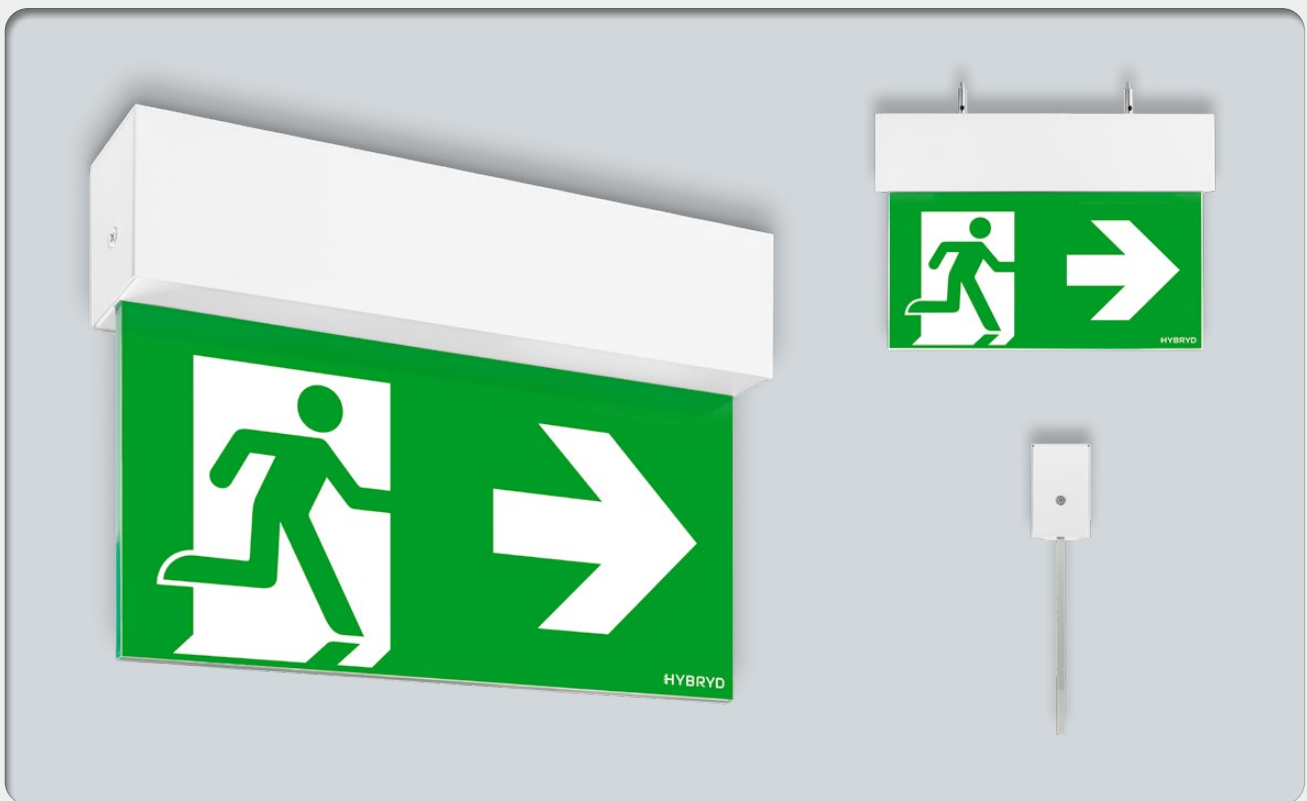CE   IP40   CNBOP-PIB 5060/2023

CRYSTAL II SGN is a low power LED luminaire designed for emergency escape lighting installed inside buildings.

Depending on the mounting type allows for the surface, suspended or recessed installation. Its main task is to indicate escape routes by means of internally illuminated evacuation signs in the ISO 7010 standard.

Safety sign visibility:

20x10cm ▷ 20m

30x15cm ▷ 30m

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LUMINAIRE FEATURES

- Luminaire shows the directions of escape
- LED indicators signalling the luminaire state
- Deep discharge battery protection
- Maintained or switched maintained operation mode
- Possibility of connecting to the monitoring system or collective power supply system
- Two luminaire sizes
- A lot of mounting types
- Housing is made of steel, lamp shade of PMMA
- Installation inside the building

AVAILABLE SYSTEMS

AUTOTEST – (AT) internal components, battery and light source tests being performed automatically

CENTRALTEST – (CT) internal components, battery and light source tests being performed on command from the main unit of central management system

CB – luminaire supplied from HVCBS (230V AC / 216V DC / 108V DC), without address module

CBAM – luminaire supplied from the HVCBS (230V AC / 216V DC), with built-in address module

LVAM – luminaire supplied with 24V DC from the LVDBS system, with built-in address module

TECHNICAL DATA

Supply voltage	**AT, CT**	230V AC 50/60Hz
	CB, CBAM	230V AC 50/60Hz 170 – 275V DC
	LVAM	10 – 32V DC
Protection class	**AT, CT**	I
	CB, CBAM	I
	LVAM	III
Ingress protection		IP40
Light source		LED strip [1]
Light source supply power		1W
Light source lifespan		> 50 000h
Battery type		Li-Ion
Battery voltage		3.7V

Battery capacity	**Li-Ion**	0.7Ah, 2.2Ah, 4.4Ah
Battery recharging time	**AT, CT**	≤ 12h
Emergency operation time	**AT, CT**	1h, 3h, 8h
Ambient temperature	**AT, CT**	+5 – +40℃ TE: [2] -20 – +40℃
	CB, CBAM	-10 – +45℃ TE: [2] -20 – +45℃
	LVAM	-25 – +60℃
Supply cable cross-section area		0.5 – 2.5mm²
Supply cable diameter		≤ 17mm
Communication cable diameter	**CT**	≤ 7mm
Through wiring		✔
Suitable for surface wiring		✔

[1] Non-exchangeable, but serviceable light source; [2] TE – extended temperature range
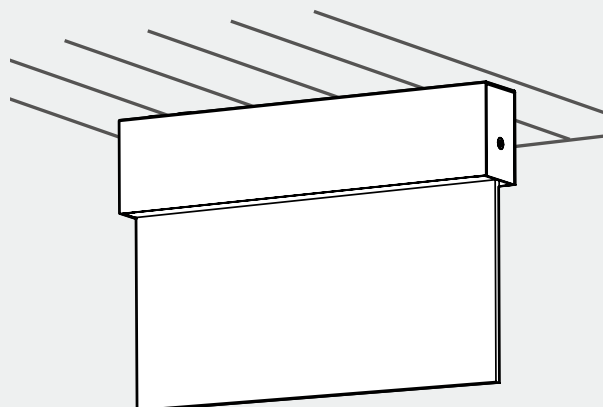
MATERIAL

Housing material – powder coated steel

Housing colour – ◯ RAL 9003, other colours on special order

Lamp shade material – transparent PMMA

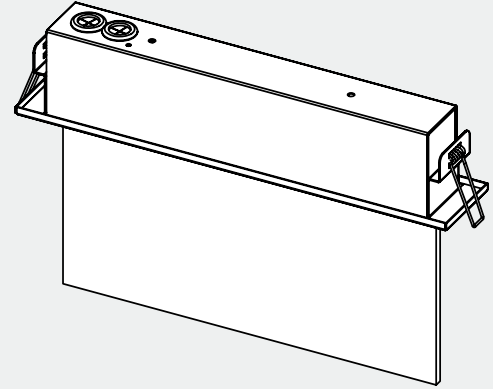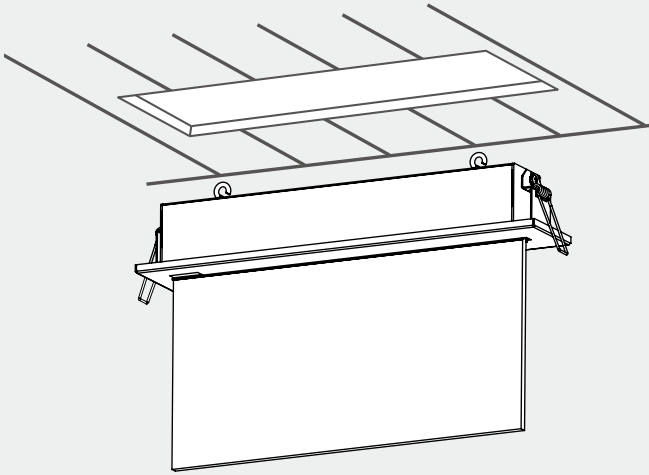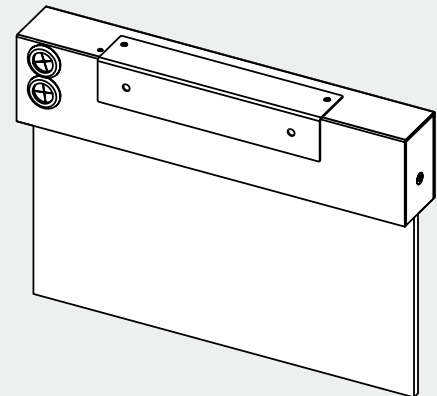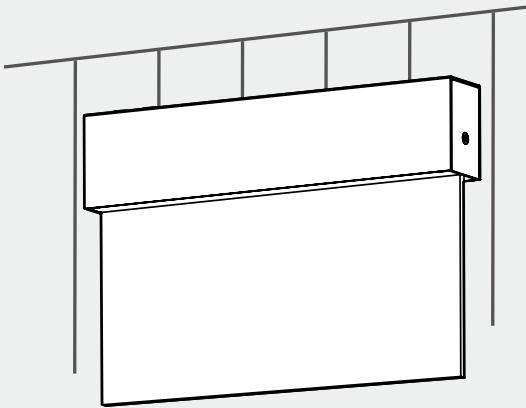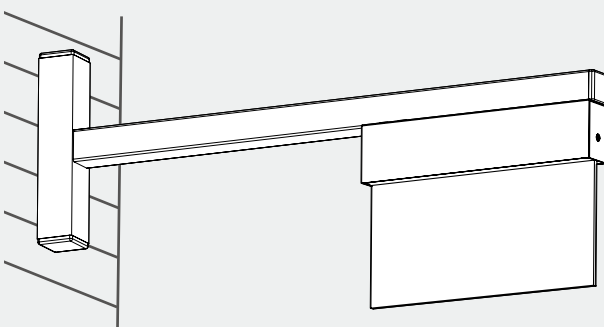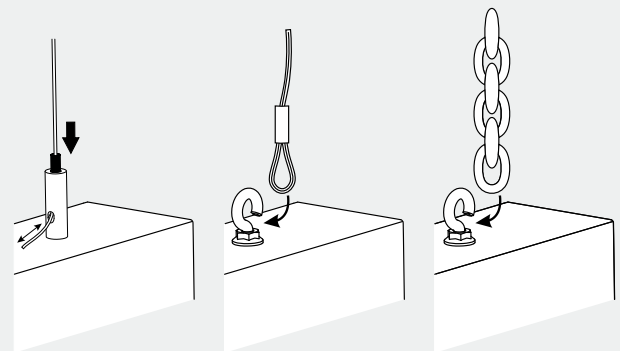## MOUNTING TYPE

Directly to the ceiling

MOUNTING ACCESSORY

C162 – recessed

W163 – back to the wall

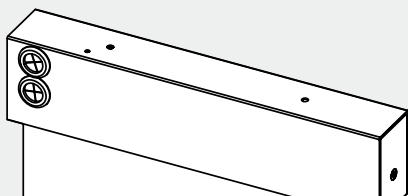**W164 –** side to the wall (semaphore)

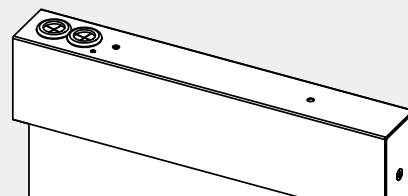**UMK C200, C201, C202 –** suspended

GROMMETS LOCATION

H – insertion of the grommets from the back of the luminaire

V – insertion of the grommets from the top of the luminaire

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SAFETY SIGNS

Signs visible on both sides:

P03	WYJŚCIE EWAKUACYJNE
P04	EXIT
PI05	
PI06	
PI15	
PI17	
PI18	
PI21	
PI22	
PI23	
PI24	
PI25	
PI26	
PI27	

Signs visible on one side only:

P03/00	WYJŚCIE EWAKUACYJNE
P04/00	EXIT
PI05/00	
PI06/00	
PI15/00	
PI17/00	
PI18/00	
PI21/00	
PI22/00	
PI23/00	
PI24/00	
PI25/00	
PI26/00	
PI27/00	

SET OF SAFETY SIGNS

The set consists of 4 safety signs, ~10x10cm or ~15x15cm stickers.

It allows to compose your own sign **PIXX** from „**Safety signs**" table by selection stickers and arrow rotation.

ORDERING

CRYSTAL II SGN | **0000** - **20x10** - **CB** - **X** - **M** - **TS** - **9003** - **FT** - **H** - **PI21**

Variant:

0000 – base

0001 – extended warranty

Safety sign size:

20x10 – 200x100 mm

30x15 – 300x150 mm

System variant:

AT – autotest

CT – centraltest

CB – HVCBS centrally supplied luminaire

CBAM – HVCBS centrally supplied luminaire, with address module

LVAM – LVDBS centrally low voltage supplied luminaire, with address module

Emergency operation time:

1h – 1 hour

3h – 3 hours

8h – 8 hours

X – not applicable (CB, CBAM)

Operation mode:

M – maintained

SM – switched maintained

X – not applicable (CB, CBAM)

Ambient temperature range:

TS – standard

TE – extended

Housing colour:

9003 – ◯ RAL 9003

9005 – ⬤ RAL 9005

9006 – ◯ RAL 9006

... – other on special order

Surface finishing:

FT – fine texture

... – other on special order, outside of the standard stock program

Grommets location:

H – insertion of the grommets from the back of the luminaire

V – inserting the grommets from the top of the luminaire

Safety sign:

... – symbol from the table „**Safety signs**"

NOP – no safety sign

PIx – safety sign for later explanation

S – set of safety signs