

Clever Light[®]

2026



Emergency Lighting Solution

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ASM Security Ltd.

At the forefront of Hungary's safety market, our company is dedicated to providing cutting-edge technology to ensure your safety.

Our team of highly qualified experts is committed to customer-centric innovation. This dedication has led us to develop and manufacture our own state-of-the-art emergency Clever Light System. Today, we offer an extensive range of next-generation luminaires along with comprehensive services.

Our luminaires feature energy-efficient, environmentally friendly LED technology, making them ideal for buildings with high aesthetic standards. Designed for versatile installation, our lights can be seamlessly integrated into ceilings or sidewalls, either visibly or concealed.

Clever Light systems are designed to meet various requirements, offering options such as self-contained batteries, 230V central batteries, and since 2020, 24V central batteries. Our systems are available with both wired and wireless self-contained batteries, central batteries (230V AC, 230V AC/DC, 24V DC, Wireless), and can be easily programmed and monitored through Clever Light Control Panels.

Choose Clever Light for innovative, efficient, and reliable safety solutions.



Our addressable systems streamline power supply and communication with the main unit through a single cable. Thanks to the two-way data stream, individual lights or groups of lights can be controlled via emergency control panels. Upon request, we can provide luminaires with customized pictograms. Additionally, Eulumdat format photometric data files are available, compatible with lighting design programs like Dialux.

Our products are renowned not only in Hungary but also in international markets. We proudly serve partners in the UAE, Qatar, Saudi Arabia, Israel, and numerous countries across the Middle East, North Africa, Sri Lanka, and nearly every European Union country. Choose our addressable systems for unparalleled control and customization in your lighting solutions.



Production

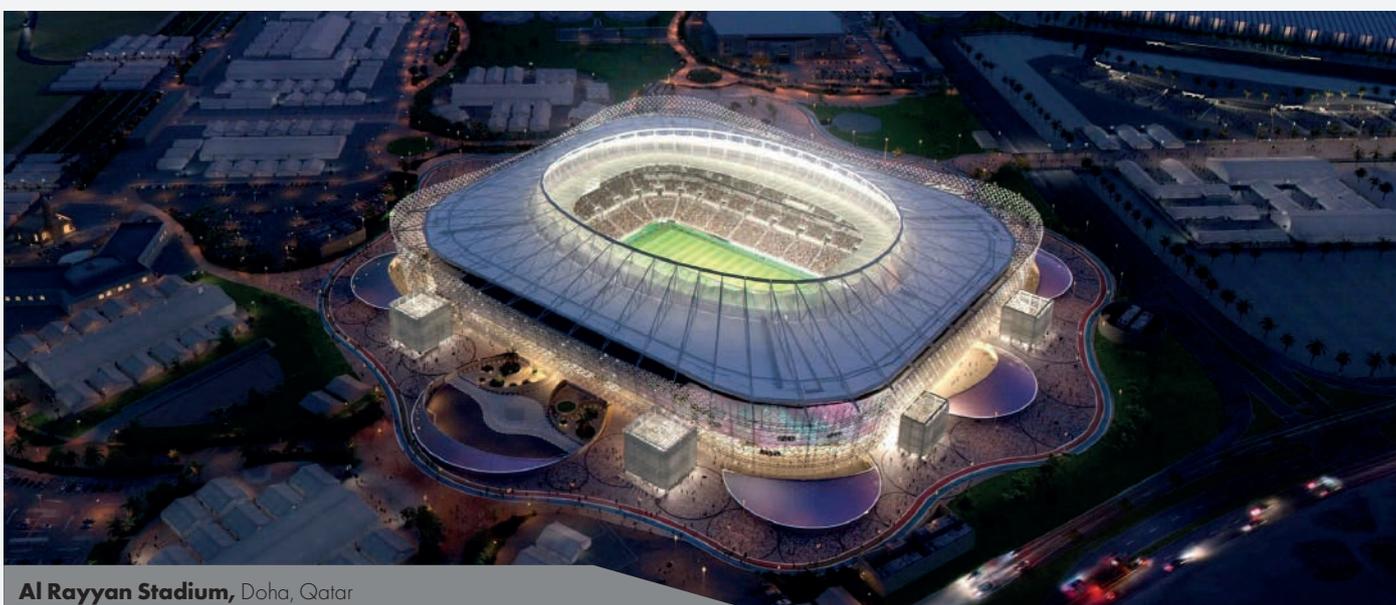
The Clever Light intelligent emergency systems are designed and produced by ASM Security Ltd.

Our 3700 m² production hall in Szolnok is where we manufacture intelligent control panels, emergency lights, exit sign luminaires, and modules. Using automatic surface-mount technology, we ensure the precision and reliability of our lamp panels, minimizing human error. Our manufacturing machines can handle 160,000 parts per hour, producing 1,500-4,500 piece devices within an 8-hour shift. The final assembly of the lamps is performed manually, with panels programmed during assembly and rigorously tested to meet strict quality standards.





Al Thumama Stadium, Doha, Qatar



Al Rayyan Stadium, Doha, Qatar



Keflavik International Airport, Keflavik, Iceland



Etele Mall, Budapest, Hungary



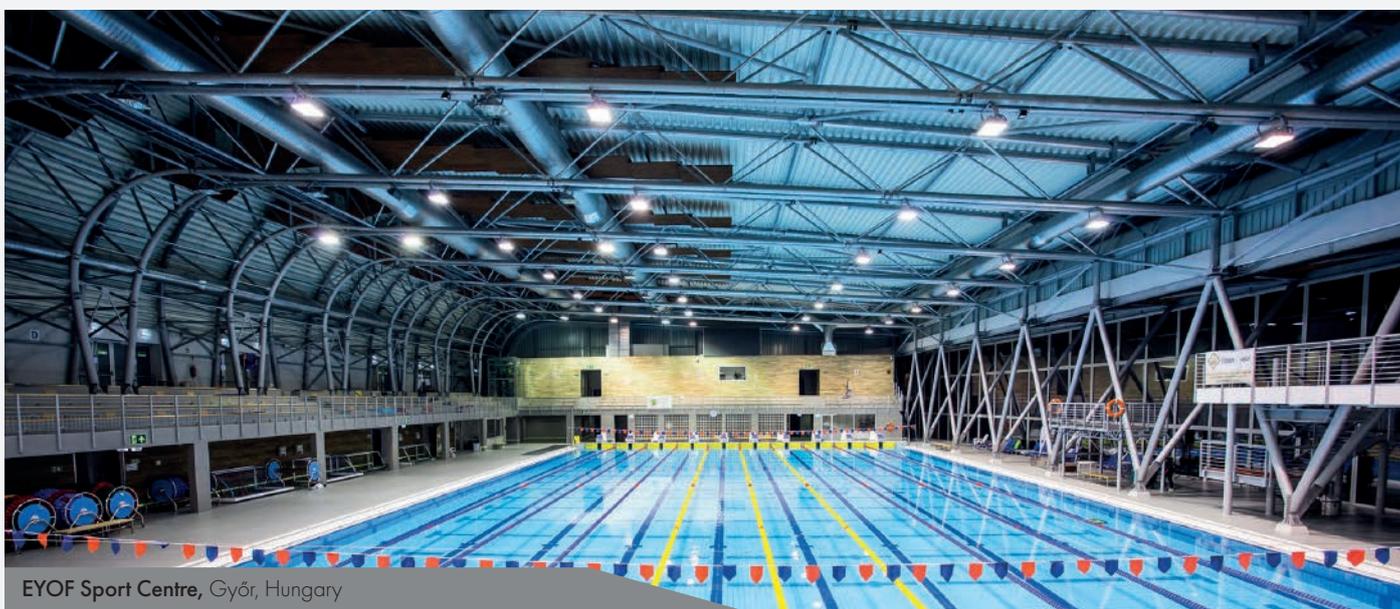
Zugló city center, Budapest, Hungary



Eagle Ottawa, Szolnok, Hungary



Ericsson Headquarters, Budapest, Hungary



EYOF Sport Centre, Győr, Hungary



Haladás Stadium, Szombathely, Hungary



Millennium Gardens, Budapest, Hungary



Office Garden, Budapest, Hungary



Ibis Style Budapest Airport Hotel, Budapest, Hungary



ADDRESSABLE SYSTEMS

CBS 230 AC/DC control panel

Type: Addressable 230V AC/DC control panel, optional sub-panel

Battery pack variations: 18pcs 98Ah, 78Ah, 42Ah, 28Ah, 20Ah seal lead acid long life batteries

Battery pack voltage: DC216

Mains voltage: AC 230V +/- 4% 50/60Hz

Max. input current: 50A

Output voltage: AC/DC AC/230V DC/216V (AC is normal operation, DC is emergency operation)

Max. output current: 50A @ 1hour

Max. 72-circuit output with 30pcs addressable devices (UL)/circuit, total number of lights: Max 1200/panel

Controller module slot number: max. 18pcs, change-over module types: CL-LD-A 4x1.5A, CL-LD-A 2x3A, CL-LD-A 1x6A

Battery charger module: CL-BC 4A max. 2 pcs

Cable inlets: 7 x M20, 30 x M25, 4 x M30

Cable connection for circuits: Max. 2.5mm² cross-section solid or sleeved twisted wire

Light addressing: Automatic, based on factory unique identification number

Clever Light commissioning, graphic or end-user software compatibility

Mounting: Standing on floor, must be attached the main cabinet with 4 screws to wall, battery cabinets with 4 screws to wall and 4 screws to floor. Main cabinet and battery cabinet must be attached to each other too.

5" touch screen for checking system information of the last 2000 events

TCP / IP network communication between 254 pcs panels, RS485 ring network communication between 32 pcs panel

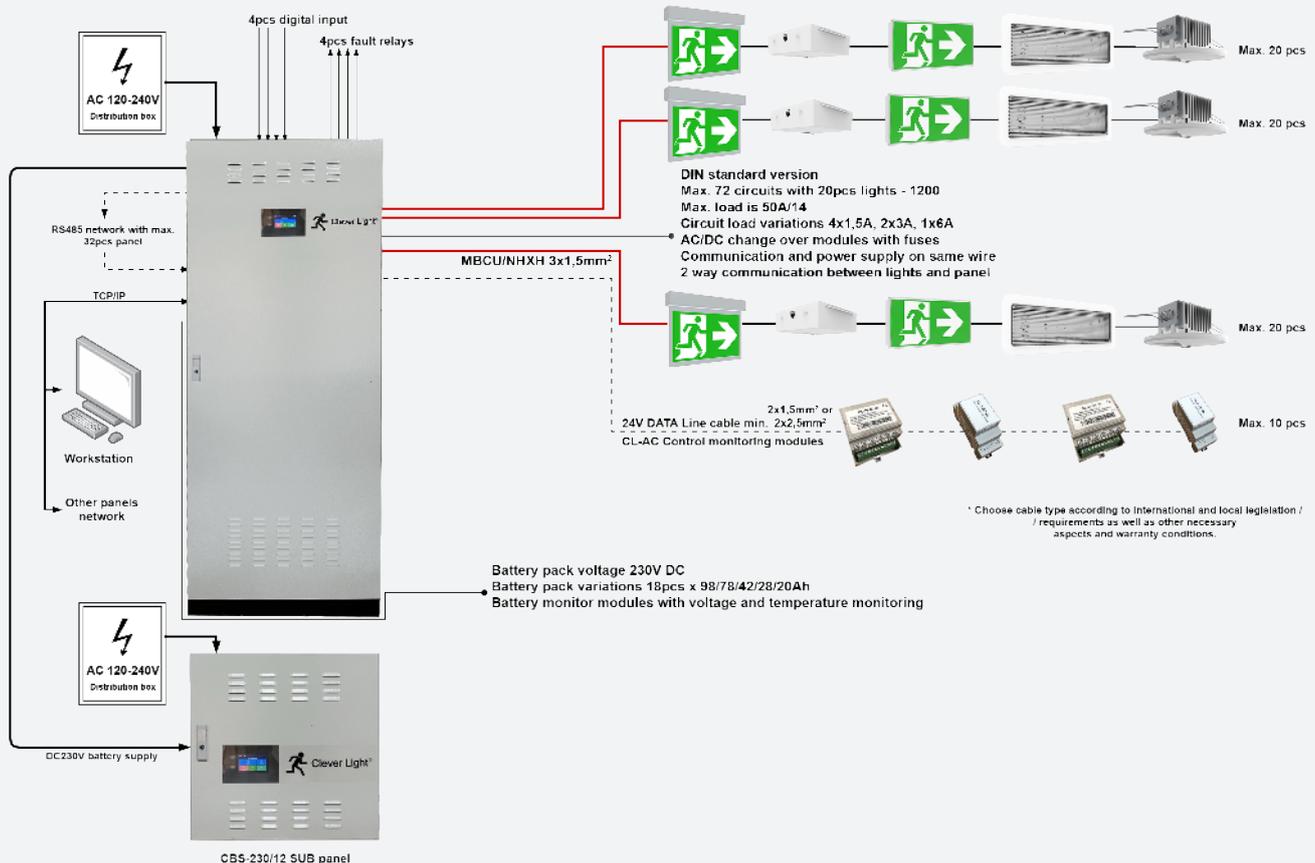
Max. 10 pcs phase monitor modules for monitoring lighting distributors (CL-3AC IN, CL-10AC IN, CL-10POT IN) with 24V DATA line communication (max load 500mA, max length 300m)

4 pcs configurable fault relays, output 4 pcs configurable potential free input on master panel board

Housing color and material: Grey metal

Constant nominal ambient temperature range: 0°C < T_a < 25°C

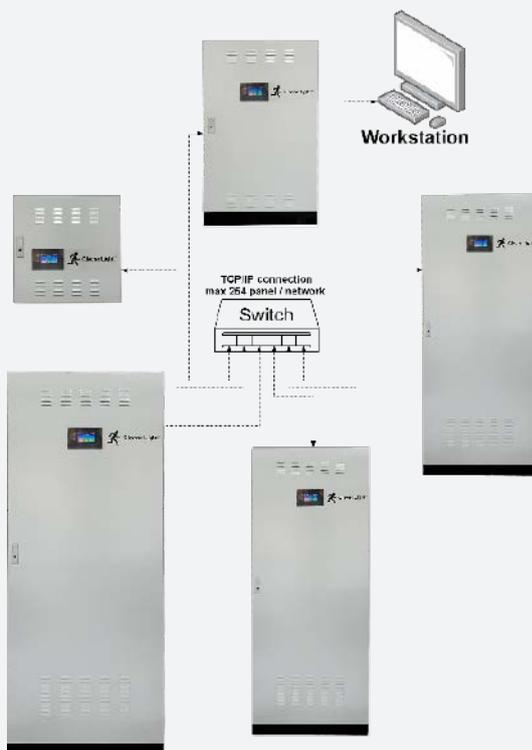
Warranty: 5-years repair warranty



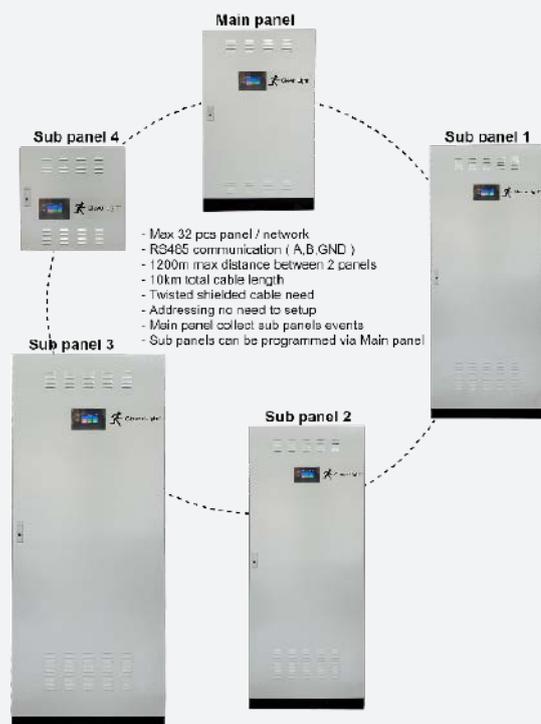
PANEL TYPE	CBS-230-72			CBS-230-44		CBS-230-24			CBS-230-12	CBS-230-12/SUB
INPUT VOLTAGE	230V									
OUTPUT VOLTAGE	1230V AC standby mode, 216 DC emergency mode									
MAX INPUT CURRENT	50A			50A		50A			15A	15A
NUMBER OF BATTERIES	18pcs									-
BATTERIES CAPACITY	*98Ah	78Ah	42Ah	*98Ah	28Ah	*98Ah	78Ah	28Ah	20Ah	-
MAX LOAD 1 HOUR	50A	40A	20A	52A	15A	50A	40A	15A	11A	-
MAX LOAD 3 HOUR	25A	20A	9A	25A	7A	25A	20A	7A	5A	-
NUMBER OF LIGHTS	1200			880		480			240	320
MAX MODULE SLOT	20			12		8			4	4
NUMBER OF CIRCUITS	72			44		24			12	16
CHANGE-OVER MODULES	4x1,5A, 2x3A, 1x6A									
BATTERY CHARGERS (4A) MAX. QUANTITY	2	2	1	1	1	2	2	1	1	-
MONITOR MODULES	3 phase, 10 phase and 10 potential free in modules, max. 10pcs on 24V DATA line communication cable.									
DISPLAY	5" LCD									
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares									
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel									
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output									
PROTECTION	IP20/54 option									
DIMENSIONS	2100x800x430			2100x800x430		2100x800x430			1200x600x330	600x600x330
TOTAL WEIGHT	704kg	562kg	295kg	340kg	250kg	694kg	552kg	404kg	142kg	25kg

Network variations

TCP/IP network



RS485 network



* CBS-230-72, CBS-230-44 and CBS-230-24 systems are available with battery options ranging from 28 Ah to 98 Ah.

Change-over modules, battery charger and battery monitor

The CL-LD-A change-over modules control the circuits and communicate with the addressable luminaries, 3 different types are available. AC/DC voltage conversion and fuse protection for each circuit. Power cables are used for data transmission as well, no additional data line is required.

AC voltage range:	AC/230V 50/60 Hz
DC voltage range:	176V-255V
Number of circuit:	4
Current limit for circuit:	1,5A
Max. connected number of lights:	4x20
Circuit length:	Max 500m Min 2x1,5m ² solid wire

CL-LD-A 4x1,5A



AC voltage range:	AC/230V 50/60 Hz
DC voltage range:	176V-255V
Number of circuit:	2
Current limit for circuit:	3A
Max. connected number of lights:	2x20
Circuit length:	Max 500m Min 2x1,5m ² solid wire

CL-LD-A 2x3A



AC voltage range:	AC/230V 50/60 Hz
voltage range:	176V-255V
Number of circuit:	1
Current limit for circuit:	6A
Max. connected number of lights:	30
Circuit length:	Max 500m Min 2x1,5m ² solid wire

CL-LD-A 1x6A



The CL-BC-4A is a microprocessor controlled battery charger module with built-in bus communication with battery monitor modules. All modules have operation and fault status signal led.

AC voltage range:	AC/230V 50/60 Hz
Max. DC output voltage:	176-252V
Max. output current:	4A
Max. number of modules/panel:	2
Number of connected batteries:	18

CL-BC-4A



The CL-BC/M module can monitor the voltage and temperature of each individual battery block. All data can be read on the master panel's LCD and with software too. If any battery fails, the battery monitor automatically detects and communicates to the master panel.



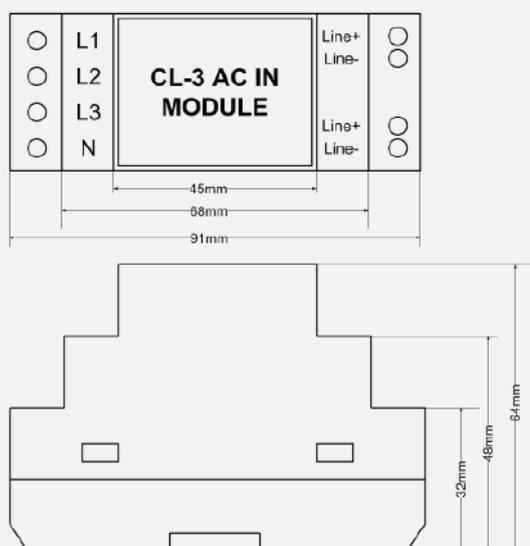
CL-3 AC IN control module

- Snaps onto standard C-rail
- 24V DATA communication between modules and control panel
- Up to 10 modules can be connected to one control panel
- Max. communication cable length 300m (1x2x1.5mm²)
- Total max. data cable load is 500mA
- Unbound communication cable structure (junction points are available)
- 3 phase-neutral monitoring input
- Each input control up to 3 different lamp groups
- Unique identifier for each module
- Compatible with all Clever Light AC/DC control panels
- Monitored input voltage 230V AC
- Current consumption: 35mA
- Rated power: 0,85W
- Warranty: 5 year repair warranty

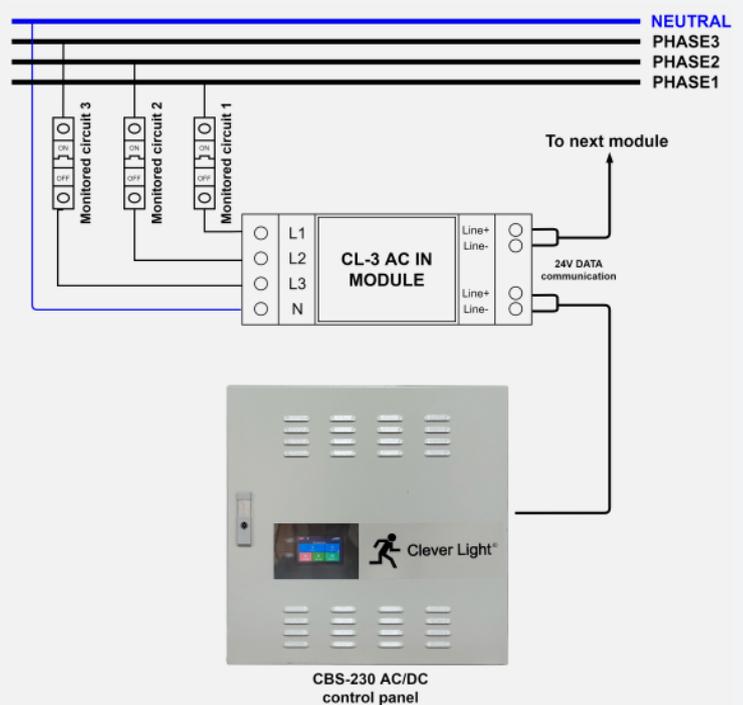


The CL-3AC IN voltage monitor input module is suitable for monitoring 3 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data communication signal are in the same 2 core wire.

DIMENSIONS



SCHEMATIC DIAGRAM



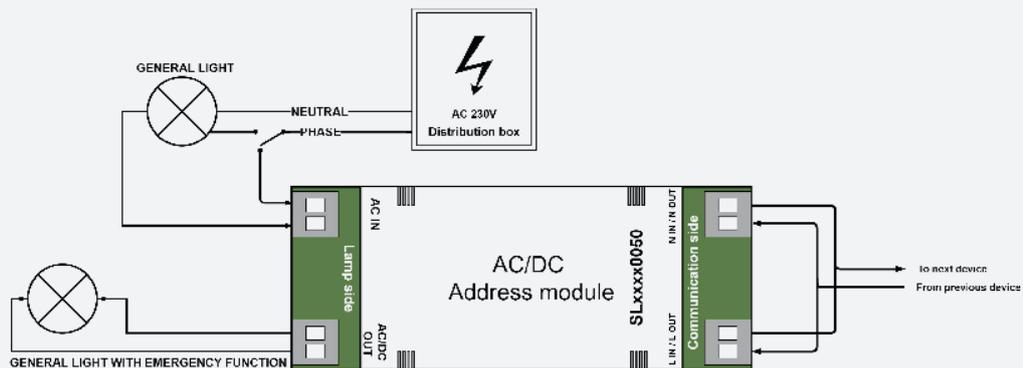
CL-AM AC/DC address module

- Unit:** Addressable module for 3rd party lights for AC/DC system
- Communication:** Only with CBS-230 control panels
- Addressing:** Automatic, based on factory unique identification number
- Addressable module unit values:** 4–30W, 8–60W, 30–100W
- Mounting :** With bolts into light cabinet or in junction box
- Connected light load range:** 8mA-16mA, 12mA-30mA, 40mA-130mA
- External phase input:** 230V 50/60Hz
- Housing:** Polycarbonate
- Size:** 99mm x 41mm x 30mm
- Cabling:** Max. 2.5mm² solid wire
- Operation:** Standby, maintained, emergency
- Switching time:** <500ms
- Mains supply normal operation:** AC 230V 50/60 Hz
- Mains supply emergency operation:** DC 176V-255V
- Input current:** 11 mA
- Rated power:** 3 VA
- Constant nominal ambient temperature range:** 0°C<Ta<45°C
- Protection:** IP20
- Certification:** CE, UL
- Warranty:** 5 year repair warranty

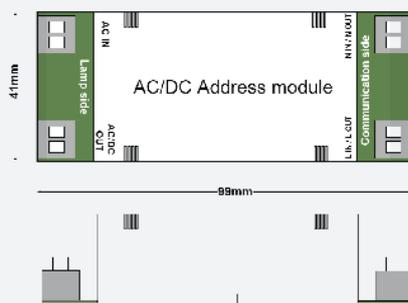


The module enables addressable control of 3rd-party lights in AC/DC systems with CBS-230 panels. It supports automatic addressing via a unique factory ID and operates with connected light loads from 3W to 100W. It mounts with bolts in light cabinets or junction boxes and features external phase input of AC 120-240V. The polycarbonate housing measures 99mm x 41mm x 30mm and supports standby, maintained, and emergency modes. It operates on AC 120-240V or DC 230V with <500ms switching time. Input current is 11mA with 3VA rated power. It supports 0°C to 45°C ambient temperatures and is IP20 rated. Certification includes CE and UL.

SCHEMATIC DIAGRAM



DIMENSIONS

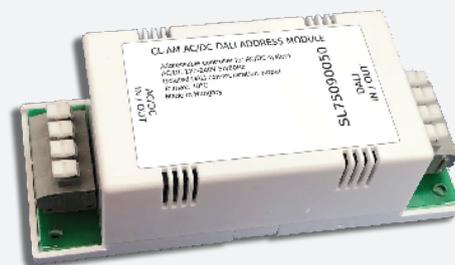


Use copper wire only
14-18 AWG, sol/str
Max. Ø 2,5 mm²



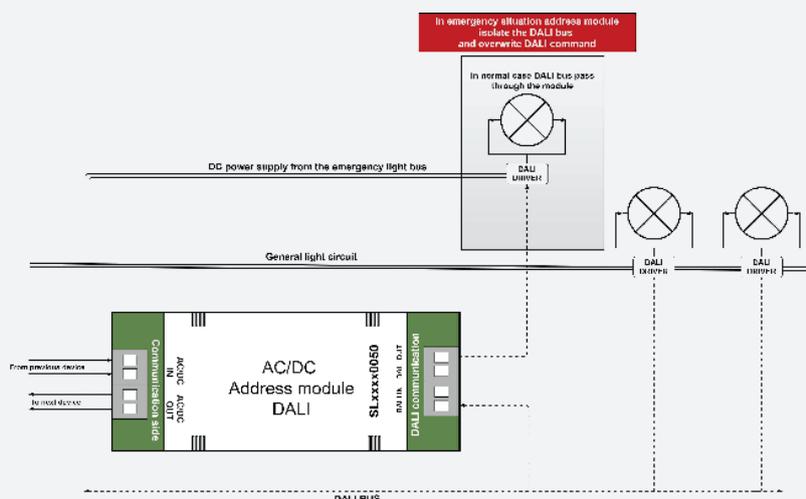
CL-AM AC/DC address module dali

- Unit:** Addressable DALI communication module for 3rd party lights
- Communication:** Only with CBS-230 control panels
- Addressing:** Automatic, based on factory unique identification number
- Mounting:** With bolts into light cabinet or in junction box
- DALI bus input connection without address reservation
- Isolated DALI bus output connection to the controlled light
- Housing:** Polycarbonate
- Size:** 99mm x 41mm x 30mm
- Cabling:** Max. 2.5mm² solid wire
- Operation:** Pass-through DALI command and overwrite
- Mains supply normal operation:** AC 230V 50/60 Hz
- Mains supply emergency operation:** DC 176V-255V
- Input current:** 11 mA
- Rated power:** 3 VA
- Constant nominal ambient temperature range:** 0°C < T_a < 45°C
- Protection:** IP20
- Certification:** CE, UL
- Warranty:** 5 year repair warranty

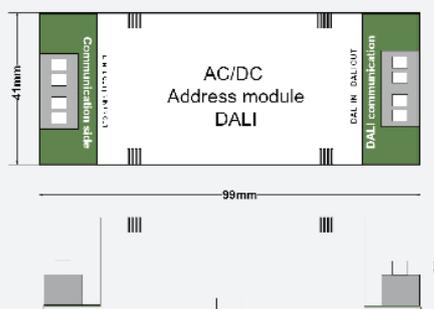


The DALI-3AC communication module enables addressable control of 3rd-party lights with CBS-230 panels. It supports automatic addressing via a unique factory ID and isolated DALI bus output. It mounts with bolts in light cabinets or junction boxes and connects via DALI bus without address reservation. The housing is polycarbonate, measuring 99mm x 41mm x 30mm. It operates on AC 120-240V or DC 230V with 11mA input current and 3VA rated power. It supports a 0°C to 45°C ambient temperature range and is IP20 rated. Certification includes CE and UL.

SCHEMATIC DIAGRAM



DIMENSIONS



Use copper wire only
14-18 AWG, sol/str
Max. Ø 2,5 mm²



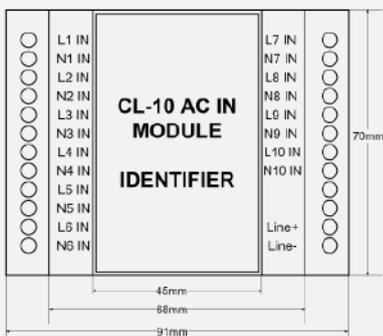
CL-10 AC IN control module

- Snaps onto standard C-rail
- 24V DATA communication between modules and control panel
- Up to 10 modules can be connected to one control panel
- Max. communication cable length 300m (1x2x1,5mm²)
- Total max. data cable load is 500mA
- Unbound communication cable structure(junction points are available)
- 10 individual phase-neutral monitoring input
- Each input controls up to 3 different lamp groups
- Unique identifier for each module
- Compatible with all Clever Light AC/DC control panels
- Monitored input voltage AC 230V
- Current consumption: 35mA
- Rated power: 0,85W
- Warranty: 5 year repair warranty

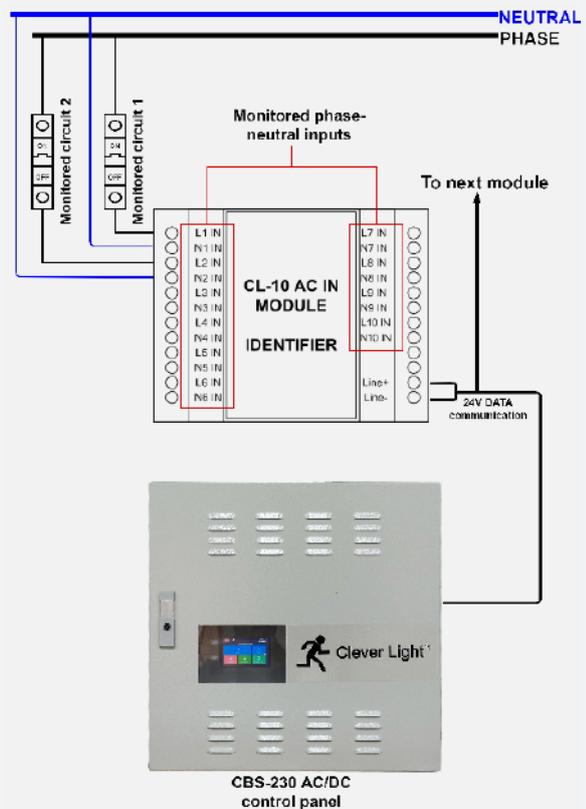


The CL-10 AC IN voltage monitor input module is suitable for monitoring 10 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups. Power and data communication signal are in the same 2 core wire.

DIMENSIONS



SCHEMATIC DIAGRAM



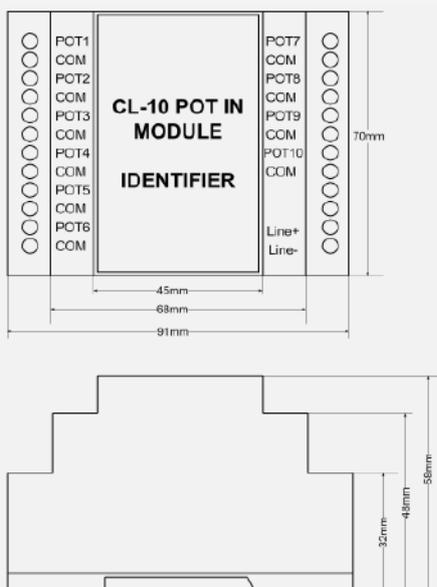
CL-10 POT IN control module

- Snaps onto standard C-rail
- 24V DATA communication between modules and control panel
- Up to 10 modules can be connected to one control panel
- Max. communication cable length 300m (1x2x1.5mm2)
- Total max. data cable load is 500mA
- Unbound communication cable structure(junction points are available)
- 10 potential free monitoring input, normally open-closed contact
- Each input controls up to 3 different lamp groups
- Unique identifier for each module
- Compatible with all Clever Light AC/DC control panels
- Current consumption: 35mA
- Rated power: 0,85W
- Warranty:** 5 year repair warranty

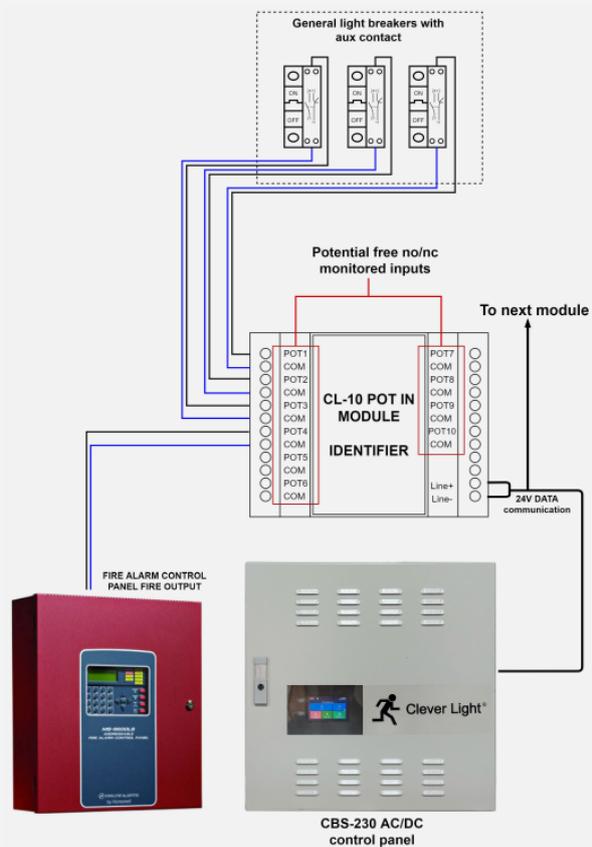


The CL-10 POT IN input module is suitable for monitoring 10 potential free normally open or close contact. In case of monitored input changed it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data communication signal are in the same 2 core wire.

DIMENSIONS



SCHEMATIC DIAGRAM



CL 601-606 control panel

Type: Addressable 230V AC central battery control panel

Light addressing: Automatic, based on factory unique identification number

Panel variations: 601 - 3 line outputs, 602 - 6 line outputs, 603 - 9 line outputs, 604 - 12 line outputs, 605 - 15 line outputs, 606 - 18 line outputs

Max. 650W load / circuit, max. 20pcs addressable light / circuit

Total load: 601 - 2kW, 602 - 4kW, 603 - 6kW, 604 - 8kW, 605 - 10kW, 606 - 12kW

Total number of lights: 601 - 60, 602 - 120, 603 - 180, 604 - 240, 605 - 300, 606 - 360

Clever Light commissioning, graphic or end-user software

Mounting: Sidewall only

Warranty: 5-years repair warranty

Housing color and material: Black metal

7" touch screen for checking system information of the last 2000 events

TCP / IP network communication between 254 pcs panels

RS485 ring network communication between 32 pcs panel

RS232 communication with Riello UPS

32 pcs phase monitor modules for monitoring lighting distributors

4 pcs configurable fault relays

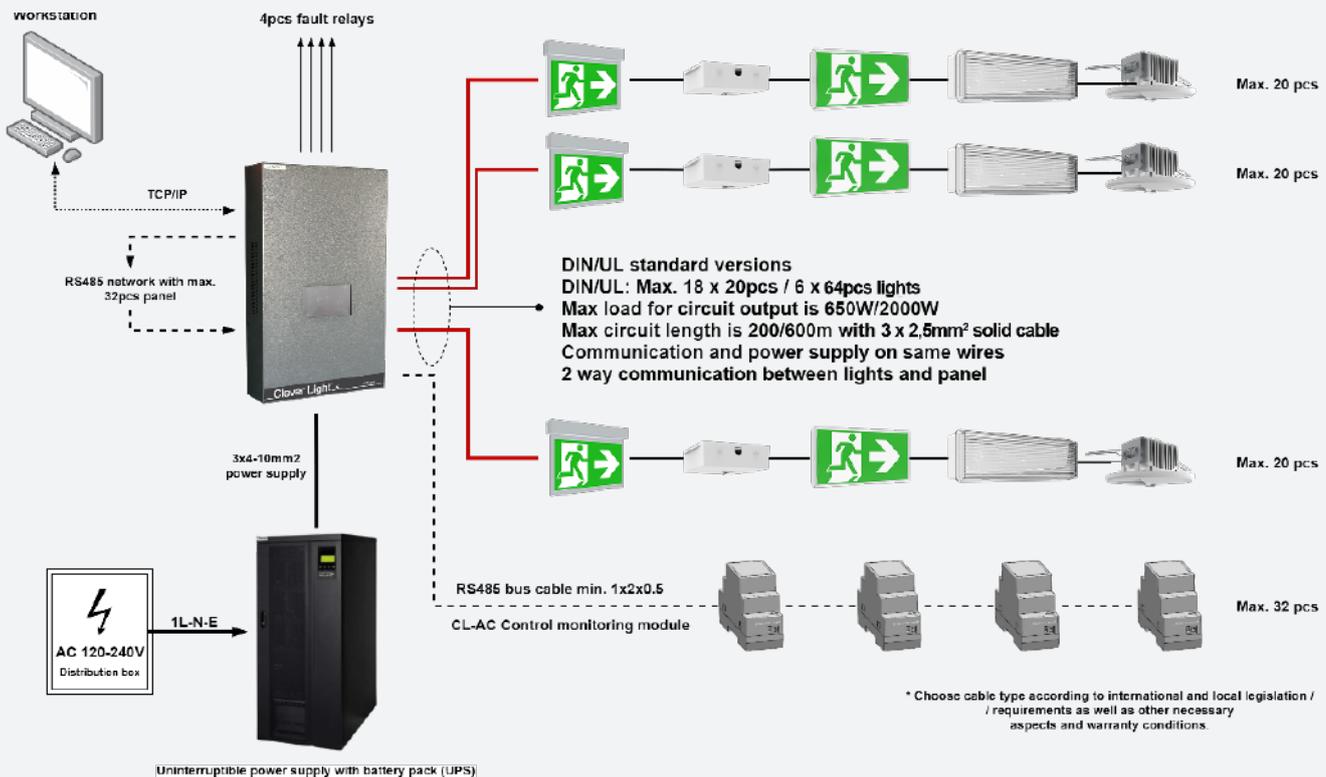
Dimensions: 650mm x 403mm x 110mm

Cable connection: Max. 10mm² for main input, max. 2.5mm² for line outputs

Mains voltage: AC 230V 50/60Hz

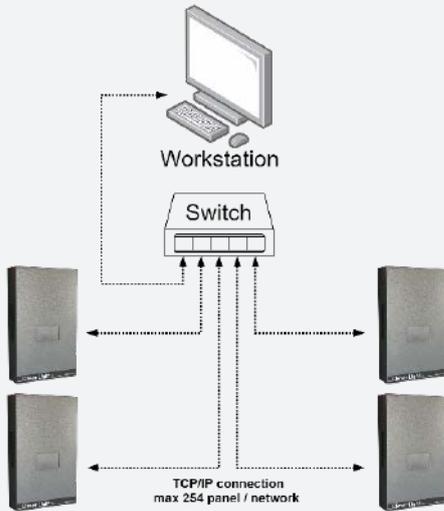
Max. input current: 601 - 6A, 602 - 12A, 603 - 18A, 604 - 24A, 605 - 30A, 606 - 36A

Constant nominal ambient temperature range: 0°C < T_a < 25°C

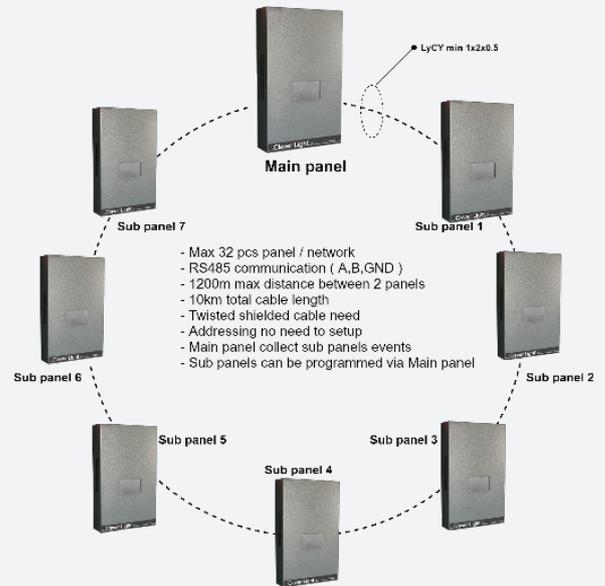


Network variations

TCP/IP network



RS485 network



PANEL TYPE	CL-601	CL-602	CL-603	CL-604	CL-605	CL-606
INPUT VOLTAGE	230V AC 50/60Hz					
OUTPUT VOLTAGE	230V AC 50/60Hz					
MAX INPUT CURRENT	6A	12A	18A	24A	30A	36A
NUMBER OF LIGHTS	60	120	180	240	300	360
NUMBER OF CIRCUITS	3	6	9	12	15	18
MAX. CIRCUIT LOAD	3A					
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable					
DISPLAY	7" LCD					
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares					
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel					
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output					
PROTECTION	IP20					
DIMENSIONS	650x403x110					

CL-AC 230 control module

Snaps onto standard C-rail

RS485 communication between modules and control panel

Up to 32 modules can be connected to one control panel

Max. communication cable length 1200m (1x2x0.5mm² twisted pair)

Selectable 1 phase-neutral or potential-free NO-NC input monitoring

Controls up to 3 different lamp groups

Unique identifier for each module

Compatible with Clever Light 100-400, CL100 RF/MB, CL601-606, CL 800 and

CL24V CB control panels

Input voltage AC 230V 50/60V

Current consumption: 11mA

Rated power: 2.5VA

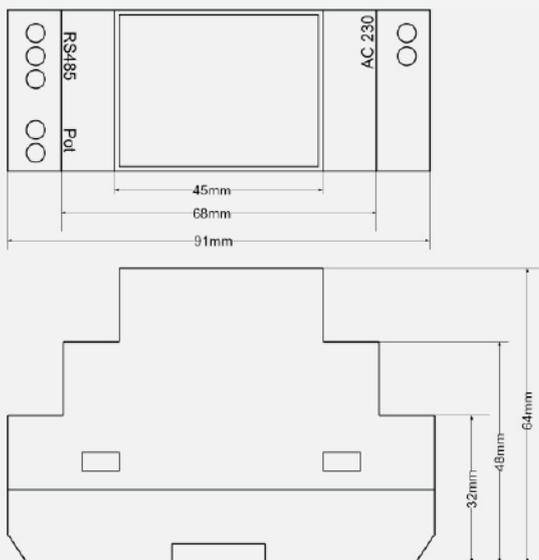
Battery: 6V 80mAh

Warranty: 5 year repair warranty

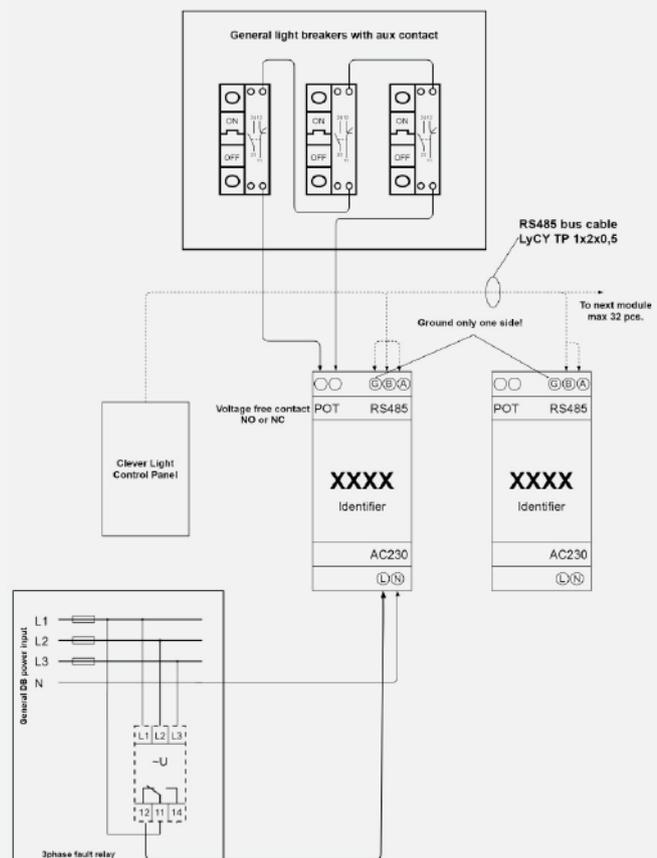


The CL-AC230 voltage monitor input module is suitable for monitoring normal lighting circuits in building distribution cabinets. In case of monitored phase loss or change of the potential-free input it's activated and send signal to master panel. It can control 3 different lamp groups and 1 fire group. In the event of a power failure, it will operate on its internal battery until it transmits signals.

DIMENSIONS



SCHEMATIC DIAGRAM

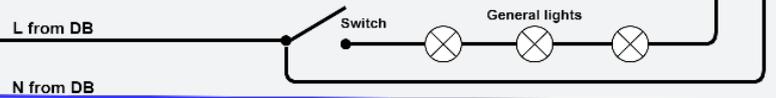
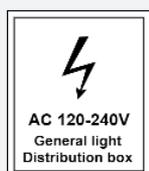
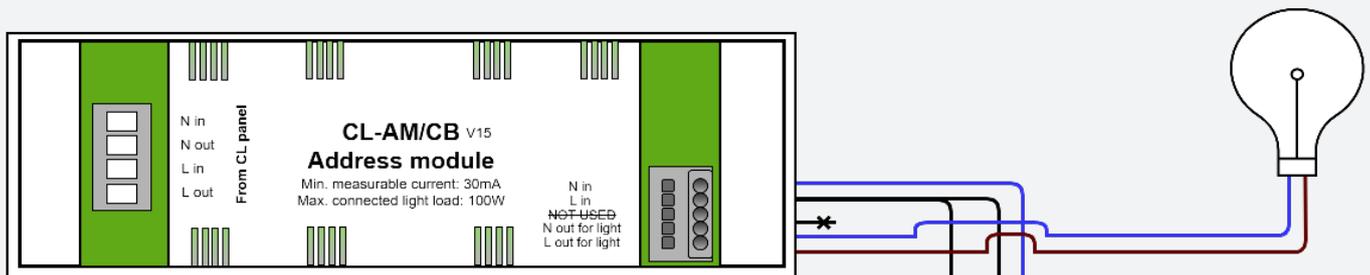
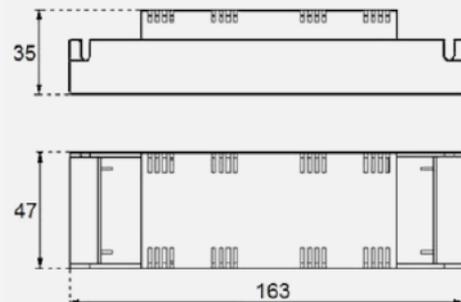


CL-AM/CB Address module

- Unit:** Addressable, central battery
- Addressing:** Automatic, based on factory unique identification number
- Mounting:** With bolts into light cabinet or in junction box
- Connected light load range:** 3W-100W
- Monitored input:** AC 120-240V 1 phase (disable option in the software)
- General light switch input:** 230V AC 50/60Hz 1 phase
- Housing:** Polycarbonate
- Size:** Outer diameter x Inner diameter x Height: 163mm x 35mm x 47mm
- Cabling:** Max. 2.5mm² twisted or solid wire
- Operation:** Standby, maintained, emergency
- Switching time:** <500ms
- Mains supply:** AC/DC
- Input current:** 11 mA
- Rated power:** 3 VA
- Constant nominal ambient temperature range:** 0°C<T_a<45°C
- Warranty:** 5 year repair warranty



The module automatically switches the lamp to emergency mode when the phase input is configured to monitoring function. This input also can be configured to general light switch phase input too.



IMPORTANT CHANGES!
 Switch L input for general use is not available anymore. "L in, N in" inputs can use for monitored phase input and light switch input too. The input mode settings are in programming software. It can be selected for phase detection or phase loss mode. Only one mode can be use in the future.



CPS-Central Power Supply

In the event of power failure or power fluctuation, the central power supply ensures the protection and operation of electronic devices. The CPS charges the battery and switches the battery backup, when the mains power is depleted. There are several types available to suit your needs. CPS is related to EN50171.



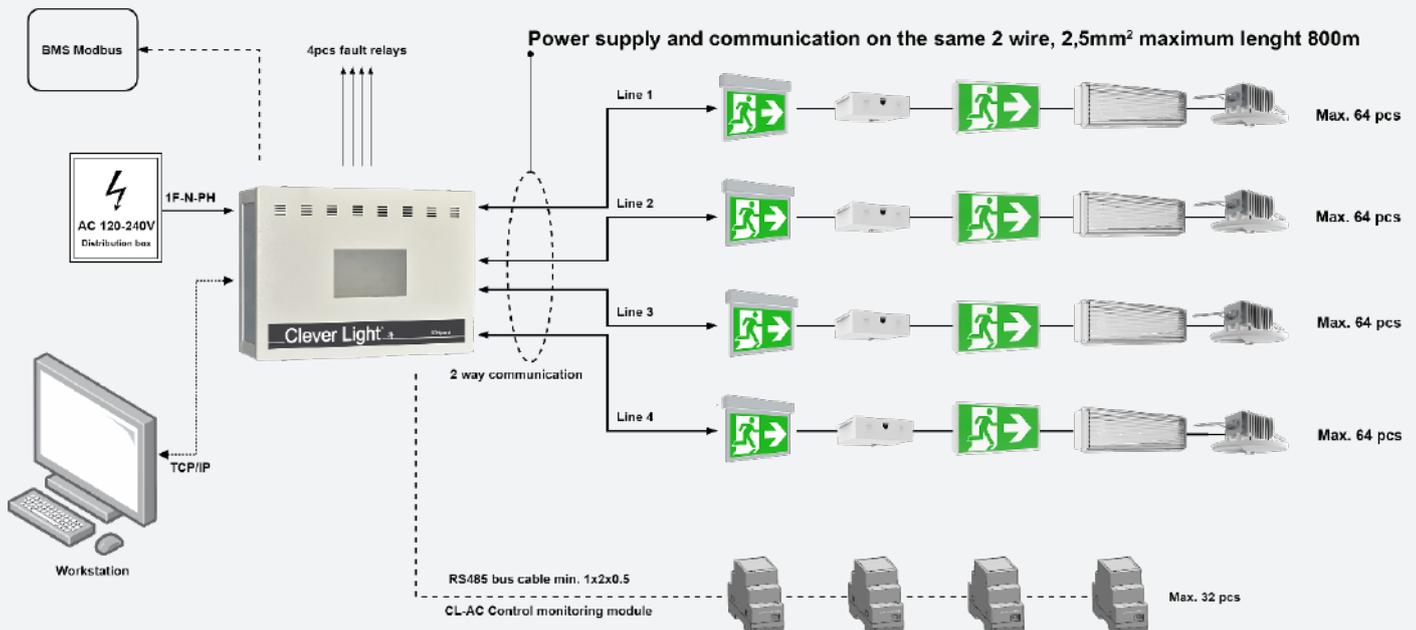
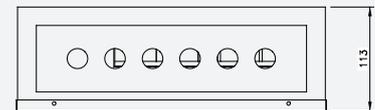
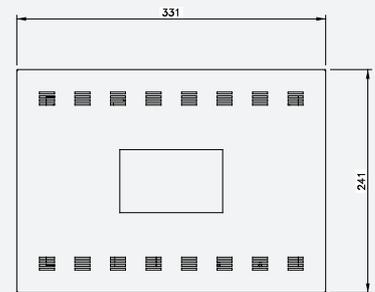
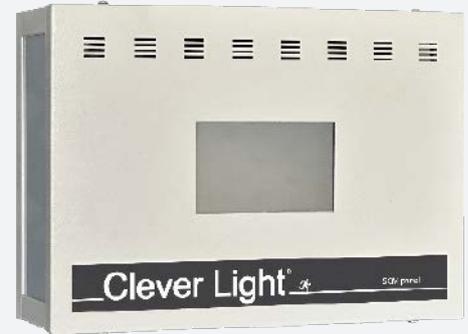
Power: 1/3/5/8/10 kW

Running time: 1-3 hours



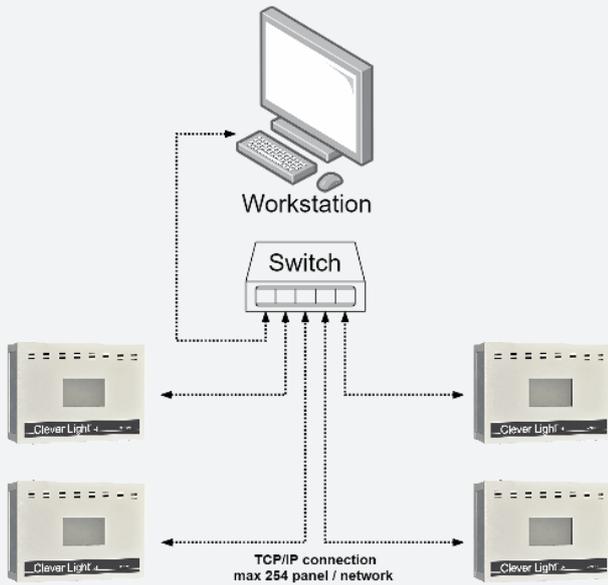
CL 100-400 control panel

- Type:** Addressable control panel for self-contained battery lights
- Variations:** CL100, CL200, CL300, CL400
- Light addressing:** Automatic, based on factory unique identification number
- Communication:** 2 way between lights and panel with 2 core cable
- Output:**
 - CL100 - 1 output with 64 devices,
 - CL200 - 2 outputs with 128 devices,
 - CL300 - 3 outputs with 192 devices,
 - CL400 - 4 outputs with 256 devices.
- Clever Light commissioning, graphic or end-user software
- Mounting:** Sidewall only
- Housing color and material:** White plastic, grey-white metal
- 5" touch screen for checking system information of the last 2000 events
- TCP / IP network communication between 254 pcs panels
- 32 pcs phase monitor modules for monitoring lighting distributors
- 4 pcs configurable fault relays output
- Dimensions:** 331mm x 241mm x 113mm
- Cable connection:** 2.5mm² cross-section solid copper core
- Mains voltage:** AC 120-240V 50/60Hz
- Max. input current:** 12A
- Output voltage:** AC 120-240V 50/60Hz with communication signal
- Constant nominal ambient temperature range:** 0°C T_a <math>< 25^\circ\text{C}</math>
- Warranty:** 5 year repair warranty

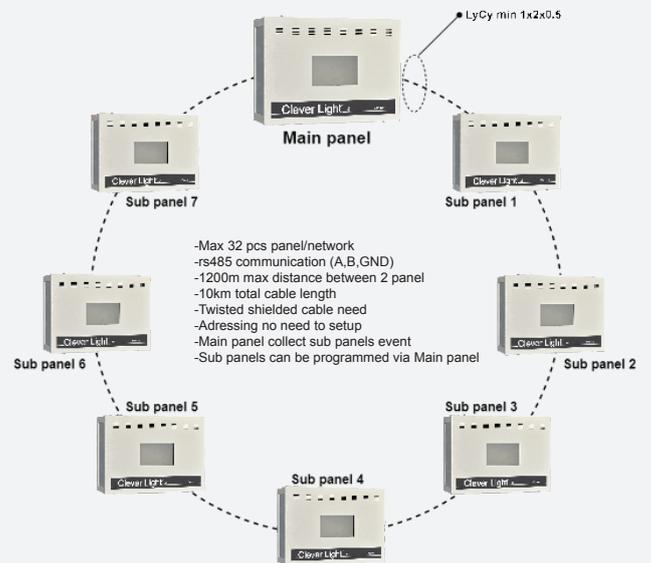


Network variations

TCP/IP network



RS485 network



PANEL TYPE	CL-100	CL-200	CL-300	CL-400
INPUT VOLTAGE	120-240 AC			
OUTPUT VOLTAGE	120-240 AC			
MAX INPUT CURRENT	12A			
NUMBER OF LIGHTS	64	128	192	256
NUMBER OF CIRCUITS	1	2	3	4
MAX. CIRCUIT LOAD	3A			
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable			
DISPLAY	5" LCD			
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares			
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel			
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output			
PROTECTION	IP20			
DIMENSIONS	331x241x113			

Network system example, multiple group control

In case of short circuit the CL-AC control panel sends a signal to the Control Panel, and the Control Panel transmits the signal via TCP/IP network to the other control panels.

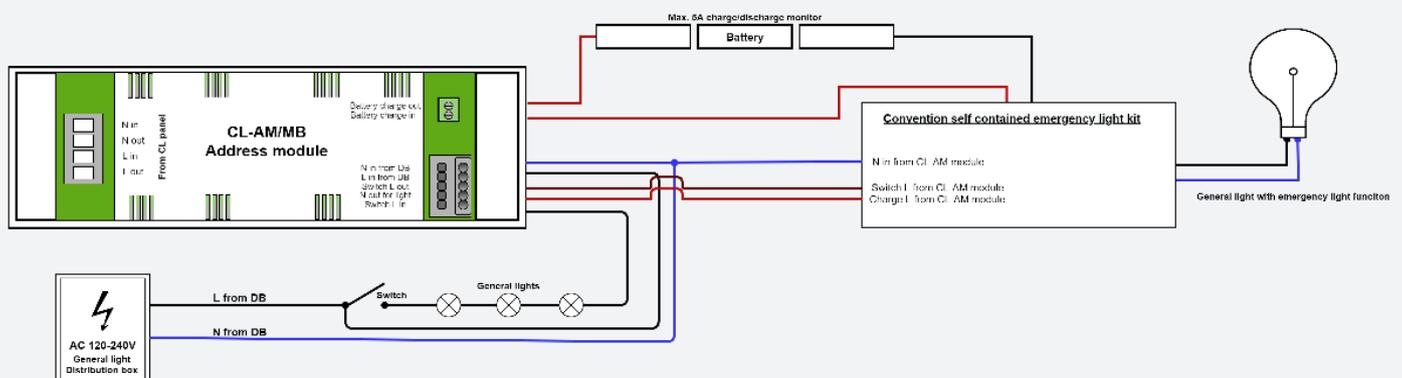


CL-AM/MB Address module

- Unit:** Address module for 3rd party light with self contained battery
- Addressing:** Automatic, based on factory unique identification number
- Mounting:** With bolts into light cabinet or in junction box
- Connected light battery charge measurement:** Max. 5A
- Monitored input:** AC 120-240V 1 phase (must be connected)
- General light switch input:** AC 120-240V 1 phase
- Housing:** Polycarbonate
- Size:** Outer diameter x Inner diameter x Height: 163mm x 35mm x 47mm
- Cabling:** 2.5mm² twisted or solid wire
- Operation:** Non-maintained emergency
- Switching time:** <500ms
- Mains supply:** AC 120-240V 50-60Hz
- Input current:** 11 mA
- Rated power:** 3 VA
- Constant nominal ambient temperature range:** 0°C T_a <math><45^\circ\text{C}</math>
- Warranty:** 5 year repair warranty



The module automatically switches the lamp to emergency mode when the monitored phase is lost. This supervised input must be connected, because the light battery charger is supply from there. In order to observe the battery charge and the status of the lamp, the positive wire of the battery must be passed through the module. The 'switch L' cable can be connected directly into the general light.



CL 800 SCM panel

Type: Addressable control panel for self-contained battery lights

Variations: CL800/1, CL800/2, CL800/3, CL800/4

Light addressing: Automatic, based on factory unique identification number

Communication: 2 way between lights and panel with 2 core cable

Output:

CL800/1 - max. 200 devices,

CL800/2 - max. 400 devices,

CL800/3 - max. 600 devices,

CL800/4 - max. 800 devices.

Clever Light commissioning, graphic or end-user software

Mounting: Sidewall only

Warranty: 5-years repair warranty

Housing color and material: White plastic, grey-white metal

5" touch screen for checking system information of the last 2000 events

TCP / IP network communication between 254 pcs panels

32 pcs phase monitor modules for monitoring lighting distributors

4 pcs configurable fault relays output

Dimensions: 331mm x 241mm x 113mm

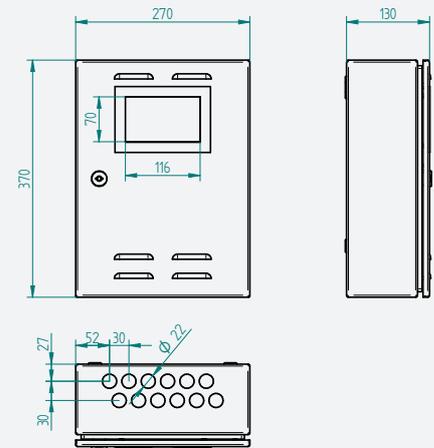
Cable connection: Max. 2.5mm² cross-section solid or sleeved twisted wire

Mains voltage: AC 120-240V 50/60Hz

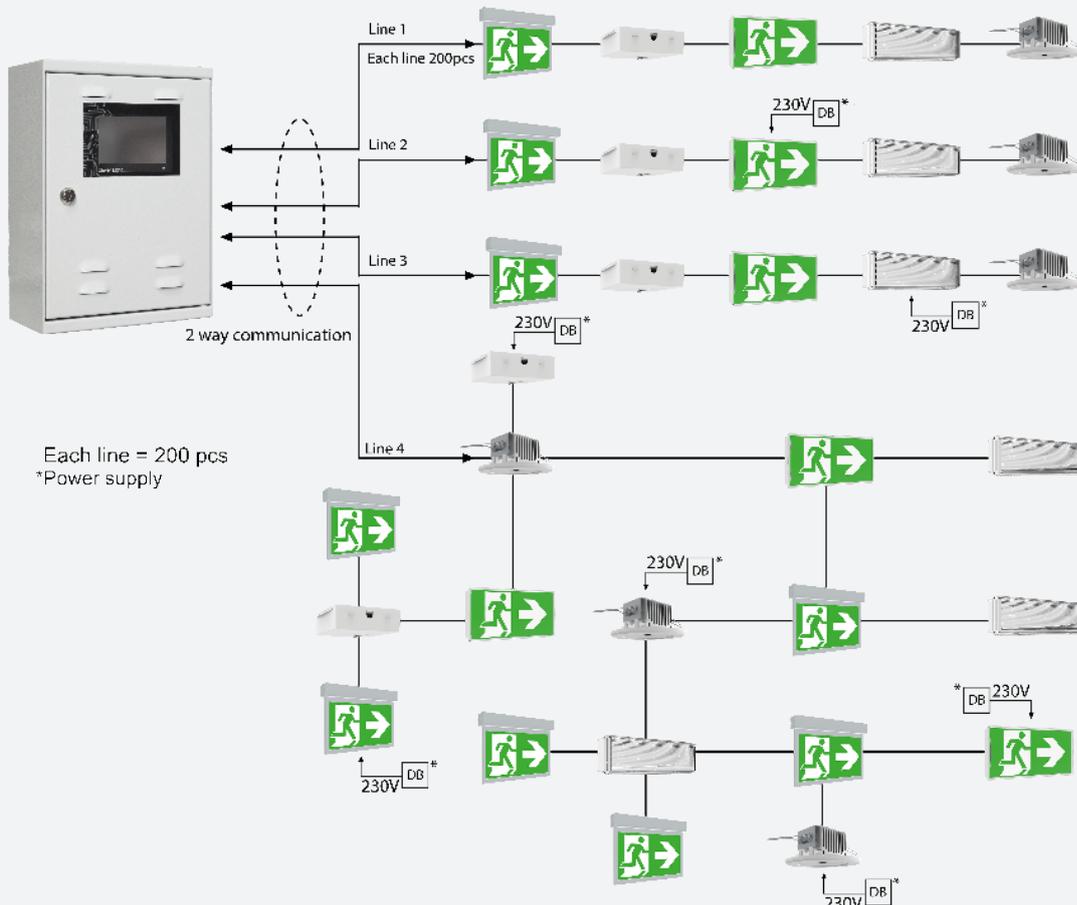
Max. input current: 1A/24V

Constant nominal ambient temperature range: 0°C < Ta < 25°C

Battery for panel: 2,4Ah 12V (optional)

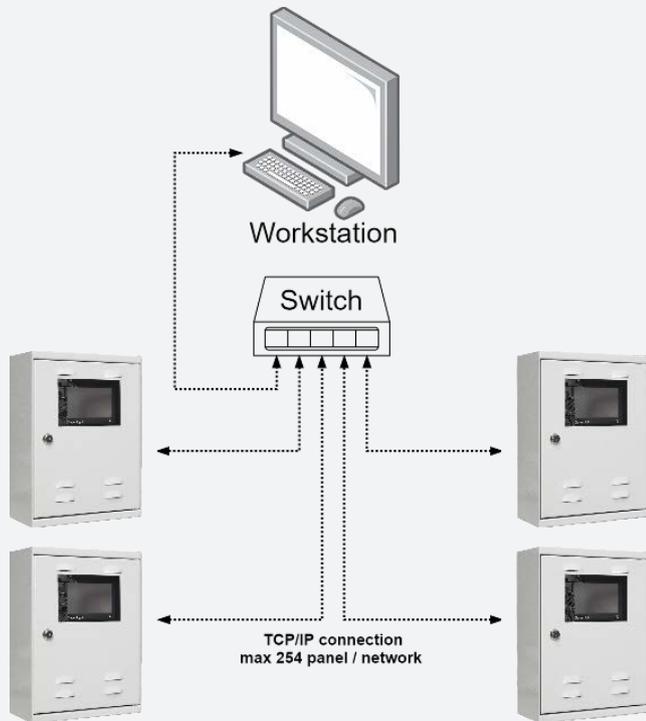


• 2 way communication on 2 wire, 2x0.8mm² maximum length 3000m. Power supply from external distribution box.

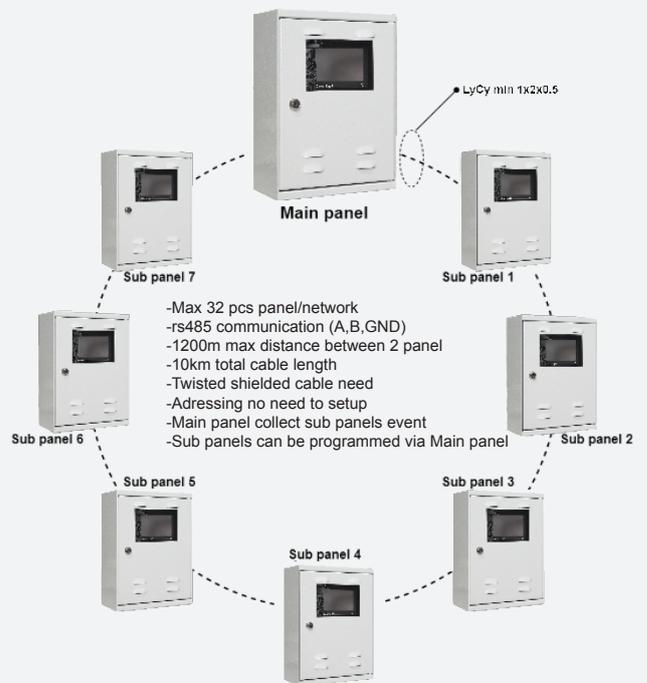


Network variations

TCP/IP network



RS485 network



PANEL TYPE	CL-800/1	CL-800/2	CL-800/3	CL-800/4
INPUT VOLTAGE	120-240 AC			
OUTPUT VOLTAGE	24A			
MAX INPUT CURRENT	1A			
NUMBER OF LIGHTS	200	400	600	800
NUMBER OF CIRCUITS	1	2	3	4
MAX. CIRCUIT LOAD	68mA			
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable			
DISPLAY	5" LCD			
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares			
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel			
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output			
PROTECTION	IP20			
DIMENSIONS	331x241x113			

CL-100/RF Wireless control panel

Type: Addressable control panel for self-contained battery lights

Light addressing: Automatic, based on factory unique identification number

Communication: Wireless mesh network data transmit on 868Mhz

Wireless coverage: Max. 300m in open space

Max. number of devices: 99 pcs wireless self-contained battery devices

Clever Light commissioning, graphic or end-user software

Mounting: Sidewall

Housing color and material: White plastic, grey-white metal

5" touch screen for checking system information of the last 2000 events

TCP / IP network communication between 254 pcs panels

32 pcs phase monitor modules for monitoring lighting distributors

4 pcs configurable fault relays output

Dimensions: 331mm x 241mm x 113mm

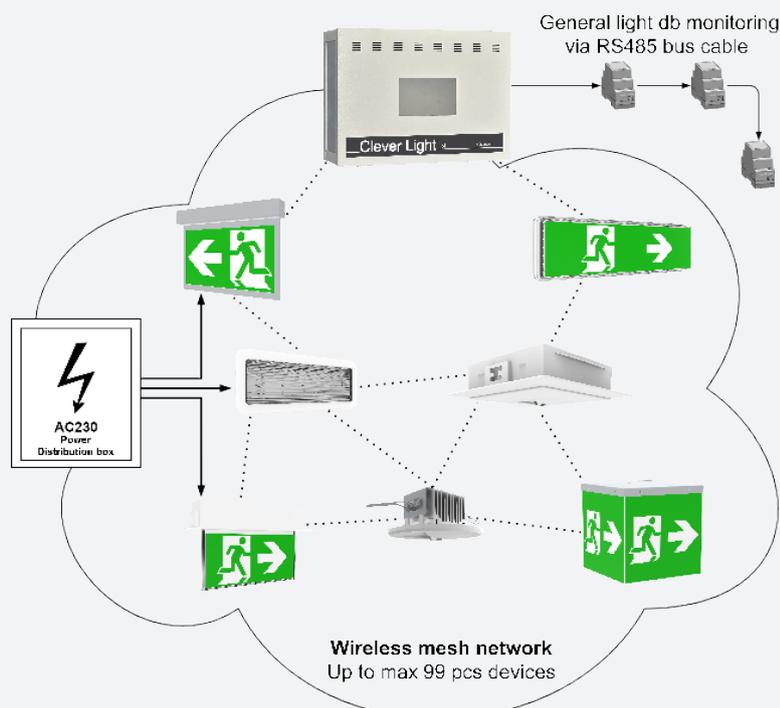
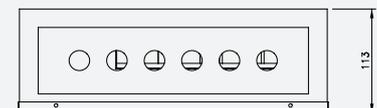
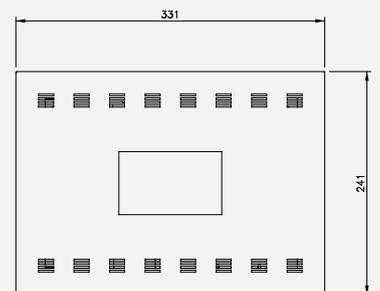
Cable connection: Max. 2.5mm² solid copper wire

Mains voltage: AC 120-240V 50/60Hz

Max. input current: 0,2A

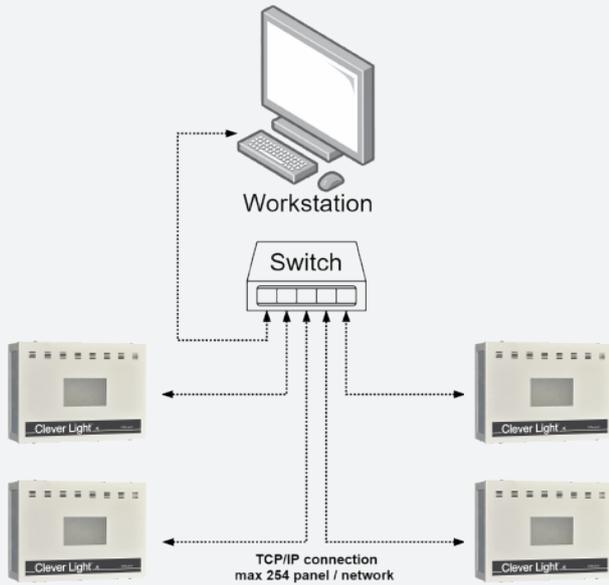
Constant nominal ambient temperature range: 0°C<T_a<25°C

Warranty: 5 year repair warranty

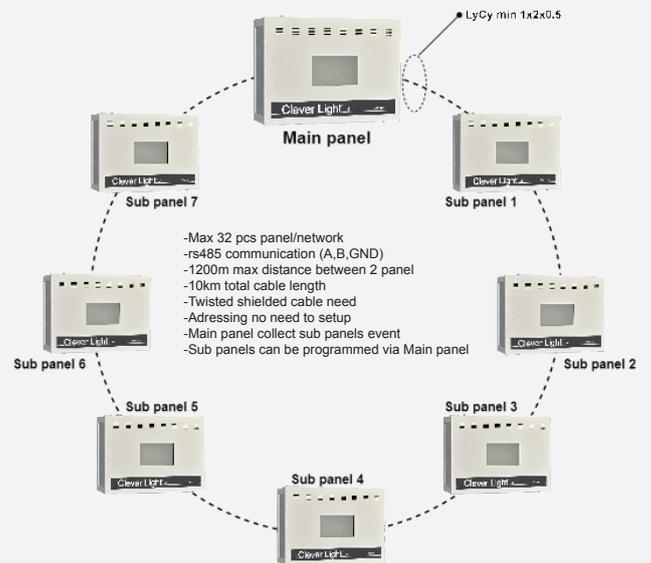


Network variations

TCP/IP network



RS485 network

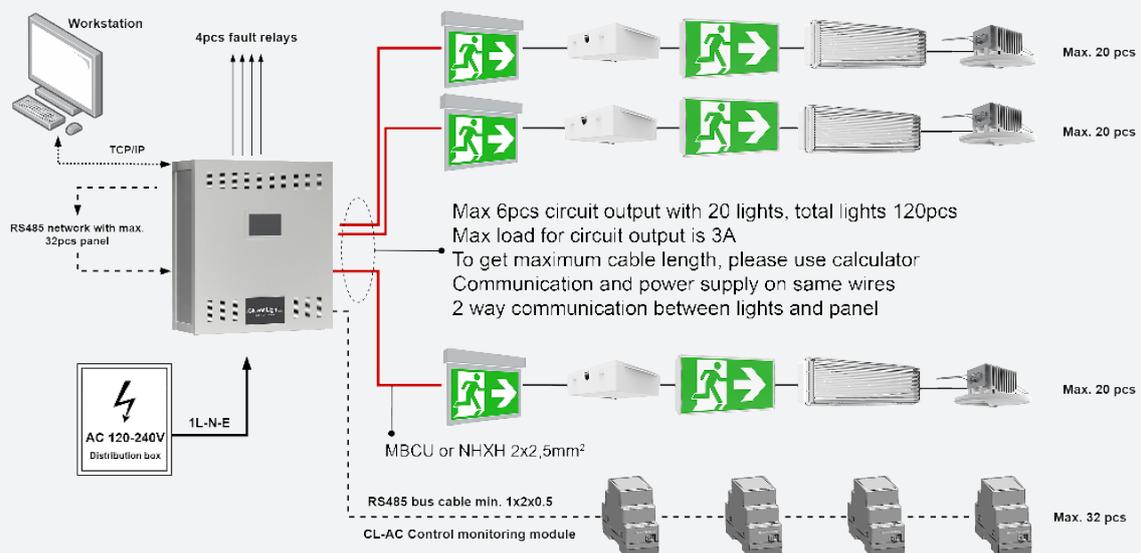
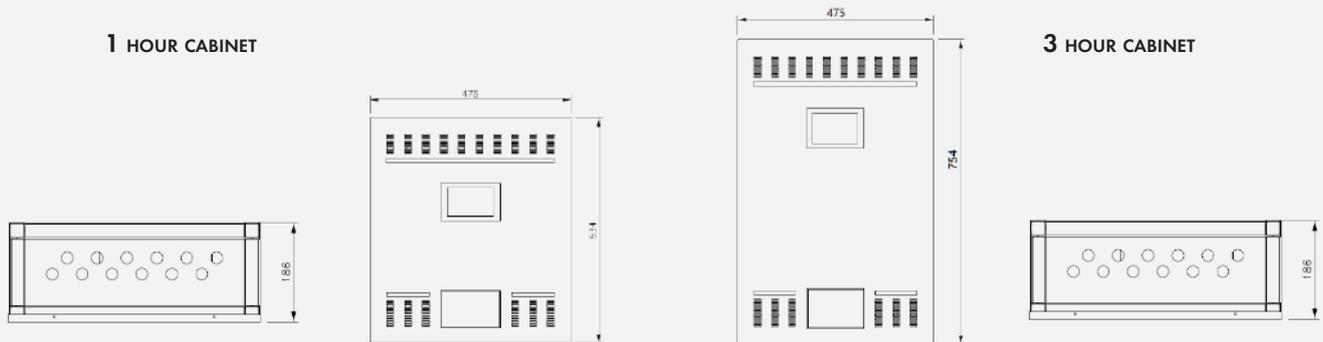


PANEL TYPE	CL-100RF/MB
INPUT VOLTAGE	120-240 AC
MAX INPUT CURRENT	0,2A
NUMBER OF WIRELESS CHANNEL	99 pcs wireless lights
NUMBER OF CIRCUITS	1
WIRELESS COVERAGE	300m (open space)
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable
DISPLAY	5" LCD
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output
PROTECTION	IP20
DIMENSIONS	331x241x113

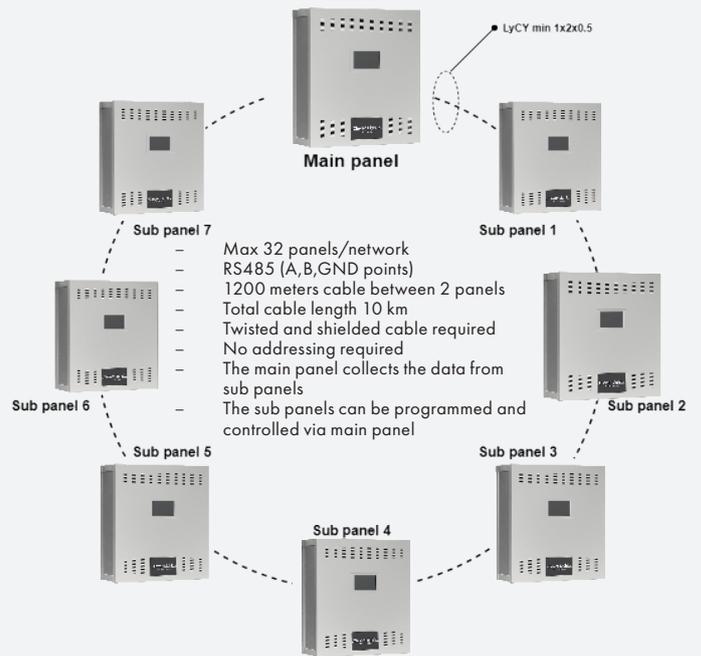
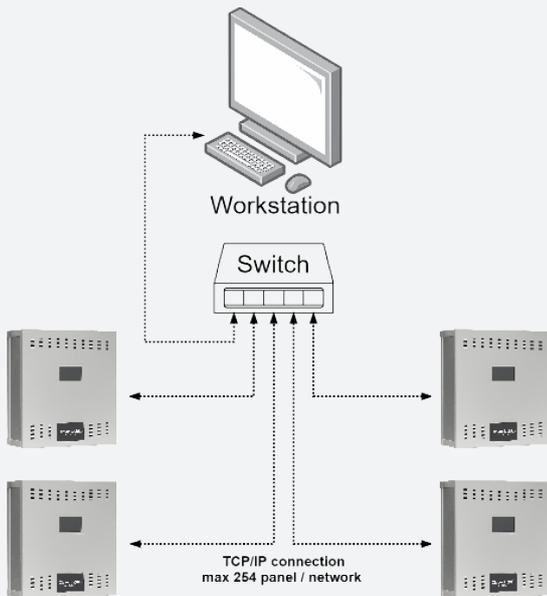
CL-24V CB control panel



- Type:** Addressable 24V central battery control panel
- Variations:** 1 hour backup, 3 hour backup
- Light addressing:** Automatic, based on factory unique identification number
- Output:** 6 circuit output with 3A/circuit load and 20pcs addressable devices
- Total load:** 18A, 10A for maintained lights load
- Battery:** 2 or 4 pcs 45Ah
- Clever Light commissioning, graphic or end-user software**
- Mounting:** Sidewall
- Housing color and material:** White plastic, grey-white metal
- 5" touch screen** for checking system information of the last 2000 events
- TCP / IP network communication between 254 pcs panels**
- RS485 ring network communication between 32 pcs panel**
- 32 pcs phase monitor modules for monitoring lighting distributors**
- 4 pcs configurable fault relays output**
- Dimensions:** 534x475x186, 754x475x186
- Cable connection:** 2.5mm² cross-section solid wire
- Mains voltage:** AC 120-240V 50/60Hz
- Max. power input current:** 2A/240V AC
- Constant nominal ambient temperature range:** 0°C<T_a<25°C
- Warranty:** 5 year repair warranty



* Choose cable type according to international and local legislation / requirements as well as other necessary aspects and warranty conditions.



- With controlled battery charger for 2 or 4 battery
- Individually addressed
- It embodies the benefits of the central battery system
- Monitors all individual components of the system
- Gathers all collected information to a single location
- Fast and cost-effective maintenance
- The system records data
- Max. 120 devices/panel (20 devices/circuit)

- System receives power and communicates with the main unit through one cable
- 32 panels/system
- Battery replacement quick and simple
- High level of the safety
- Offer long-term cost advantages
- High quality
- Easy to install

PANEL TYPE	CL-24V CBS 1HOUR	CL-24V CBS 3HOURS
INPUT VOLTAGE	120-240 AC	
OUTPUT VOLTAGE	24-32V DC	
MAX INPUT CURRENT	2A	
BATTERIES CAPACITY	45Ah	
NUMBER OF BATTERIES	2	4
NUMBER OF LIGHTS	120	
NUMBER OF CIRCUITS	6	
MAX. CIRCUIT LOAD	3A	
MAX OUTPUT LOAD	18A	
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable	
DISPLAY	5" LCD	
SOFTWARE	CL-UNI Commissioning/End-user/Graphics softwares	
NETWORK COMMUNICATION	TCP/IP with 254pcs panel, RS485 with 32pcs panel	
EXTERNAL INPUT/OUTPUT	4 digital input, 4 relay output	
PROTECTION	IP20	
DIMENSIONS	534x475x186	754x475x186

CL-24V CON CB control panel

Type: Conventional 24V central battery control panel

Standalone panel, easy setup without programming software

Variations: 1 hour backup, 3 hour backup

Circuit programming: Maintained, non-maintained, timer staircase modes

Output: 6 circuit output with 3A load

Total load: 18A, 10A for maintained lights

Battery: 2 or 4 pcs 45Ah

Built-in webserver and email sending function

Mounting: Sidewall

Housing color and material: White plastic, grey-white metal

5" touch screen for checking system information of the last 2000 events

TCP / IP network communication

3 inputs for sub-db monitoring, 1 input to active staircase timer function

4 pcs pre-configured fault relays

Dimensions: 534x475x186, 754x475x186

Cable connection: Max. 2.5mm² cross-section solid wire

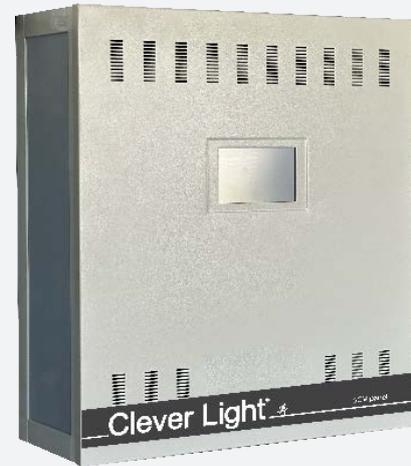
Mains voltage: AC 120-240V 50/60Hz

Max. input current: 2A

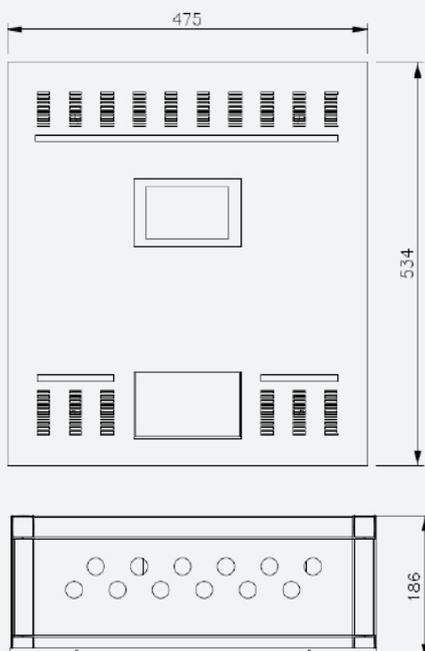
Output voltage: 24-32V

Constant nominal ambient temperature range: 0°C<Ta<25°C

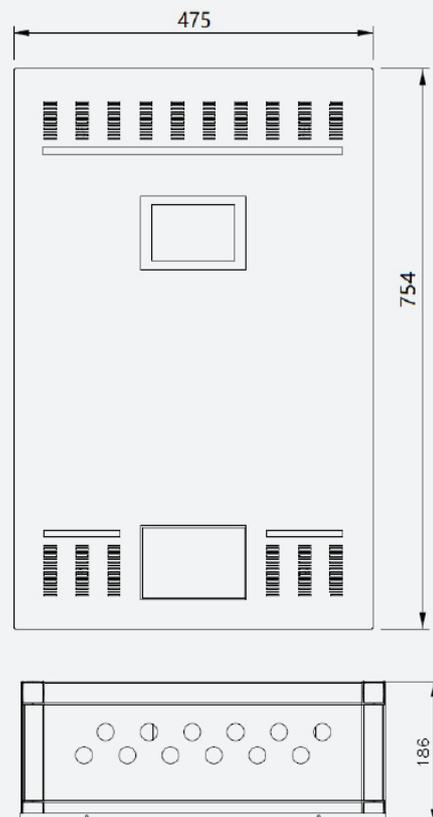
Warranty: 5 year repair warranty

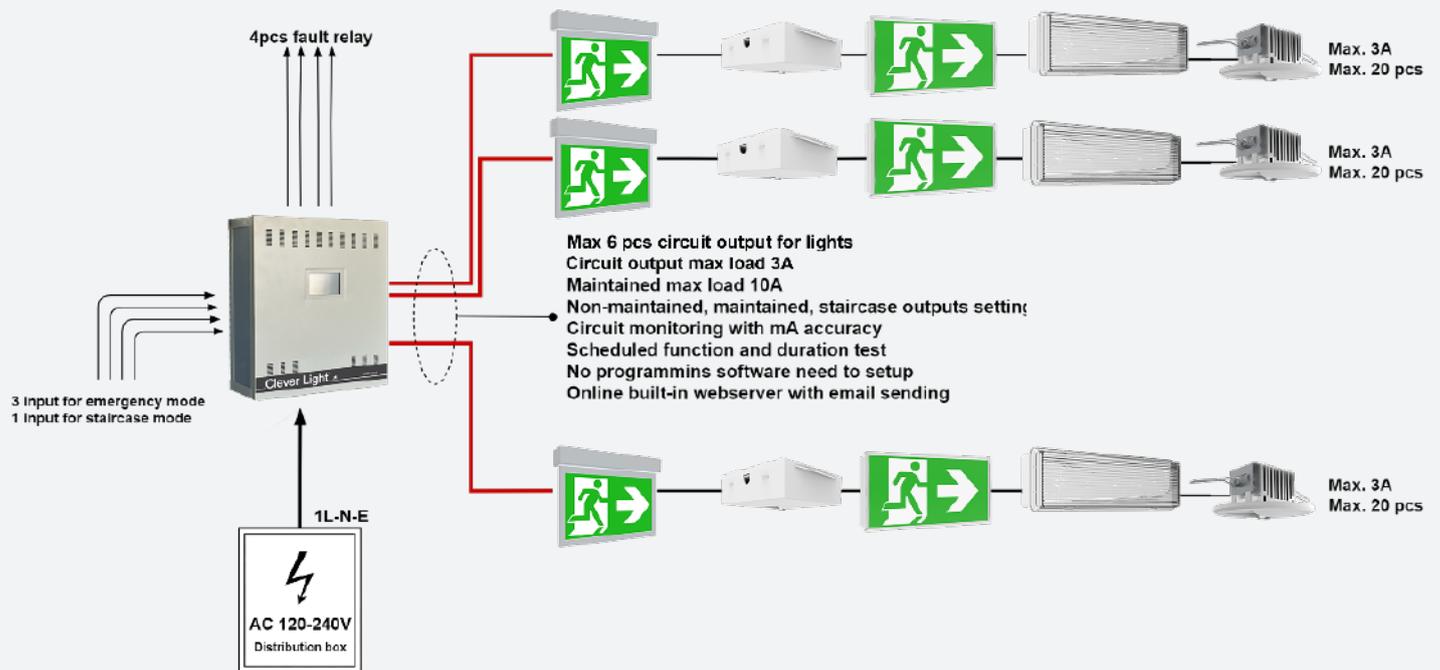


1 HOUR CABINET



3 HOUR CABINET





PANEL TYPE	CL-24V CON CBS 1 HOUR	CL-24V CON CBS 3 HOURS
INPUT VOLTAGE	120-240 AC	
OUTPUT VOLTAGE	24-32V DC	
MAX INPUT CURRENT	2A	
BATTERIES CAPACITY	45Ah	
NUMBER OF BATTERIES	2	4
NUMBER OF LIGHTS	120	
NUMBER OF CIRCUITS	6	
CIRCUIT FUNCTIONS	Non-maintained, maintained, timer staircase	
MAX. CIRCUIT LOAD	3A	
MAX OUTPUT LOAD	18A	
MONITOR MODULES	Max. 32pcs CL-AC control modules on RS485 bus cable	
DISPLAY	5" LCD	
SOFTWARE	Webserver with e-mail sending	
NETWORK COMMUNICATION	TCP/IP	
EXTERNAL INPUT/OUTPUT	3 inputs for sub-db monitoring, 1 input for staircase, 4 programmed fault relays output	
PROTECTION	IP20	
DIMENSIONS	534x475x186	754x475x186

Software

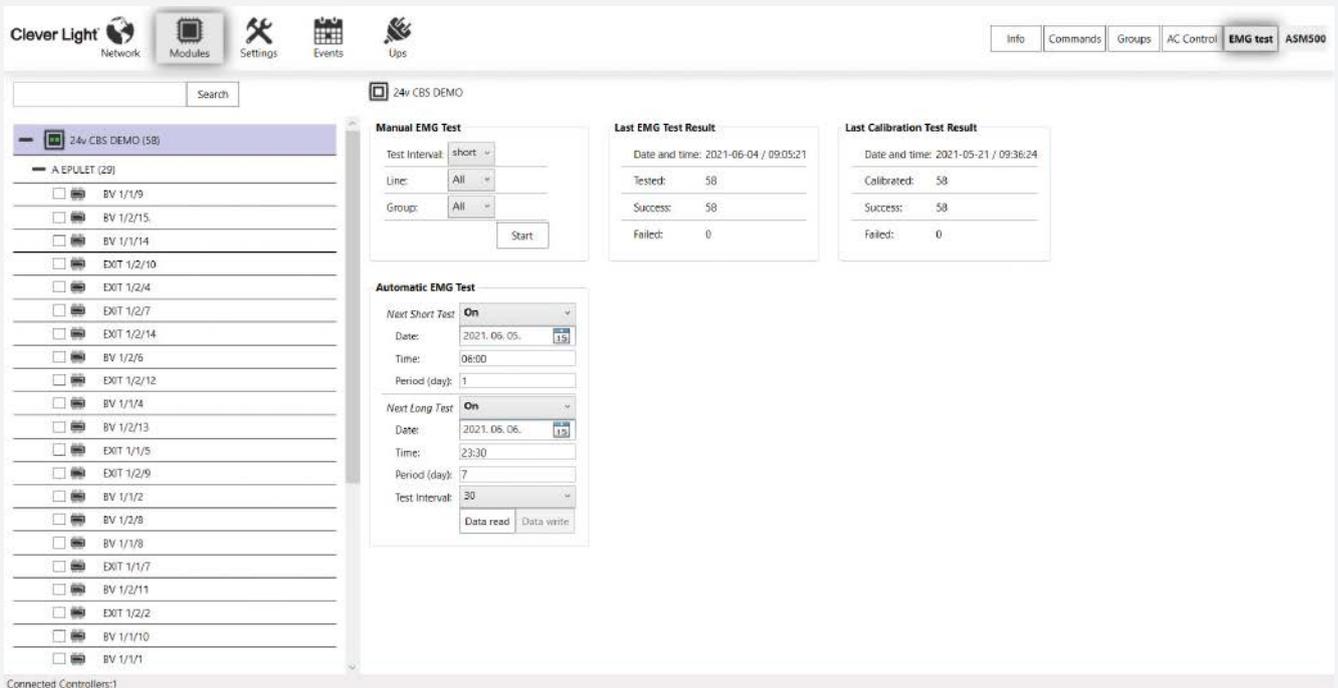
> installer

CL-UNI software versions:

> client

> graphic display

TCP/IP network connection, compatible with all our addressable master panels on Windows. Annually renewable license for installer and graphical display version. Easy to use, logical structure, fast operation. Filterable, printable events list, that is exportable to MS pdf format and you can send it in e-mail. Free client version for basic functions.



Operating system	Windows 10/11
Hardware requirements	Average configuration with ethernet network adapter
Features	Complete configuration of the addressable systems
	Real-time query for device status
	Event download and export
	Tests set up and run
	Importing BMP, JPEG, PNG file format to graphical viewer
	USB hardware key

ClevertLight-Client-Software v1.33

ASM 24V.xml - A building

File Edit Options

- ASM SECURITY
- C building
- Warehouse
- Production area
- Office
- B building
- A building**
- 03 - Show room
- 02 - Data storage

Network Modules Settings Events Ups Graphics Designer

B building

Warehouse

Data storage

Show room

Back to main page



MOTORT LEALLITANI GARAZST ELHAGYVA



P5

B

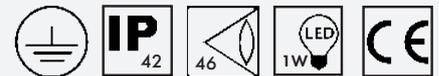


EXIT SIGN LUMINAIRES

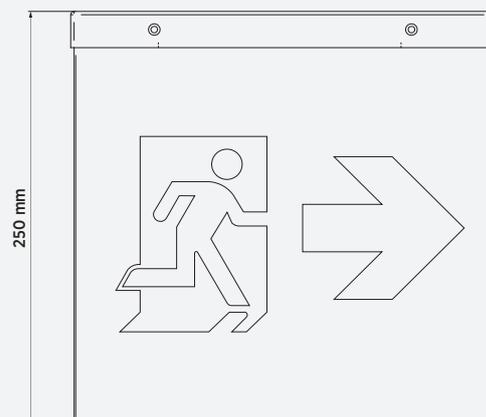
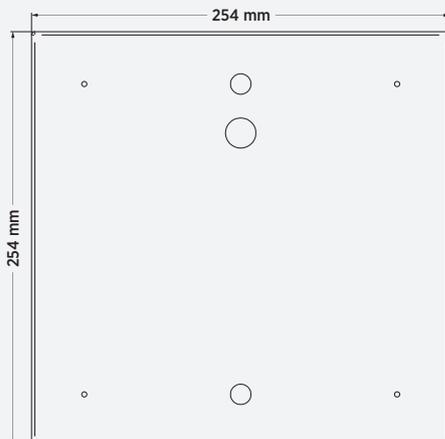
White plastic/ grey metal exit sign luminarie **CL-014**



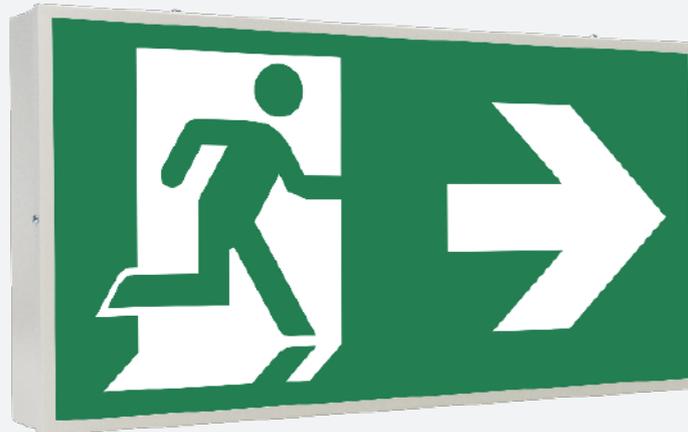
Mounting	Light source	Warranty	Size	Temperature
Ceiling, suspended from ceiling	50.000h 6000k	5-years	254x254x250mm	0°C<Ta<45°C



Our four-sided exit light specially developed for large public areas and industrial scale halls. Suitable for airports and shopping malls as well, due to its visibility distance (46m). It is applicable for ceiling or it is available in hanging design. With unique pictograms, it's practical not only for showing the exit, but also for marking a meeting point, or showing other information. The suspension accessories are sold separately.



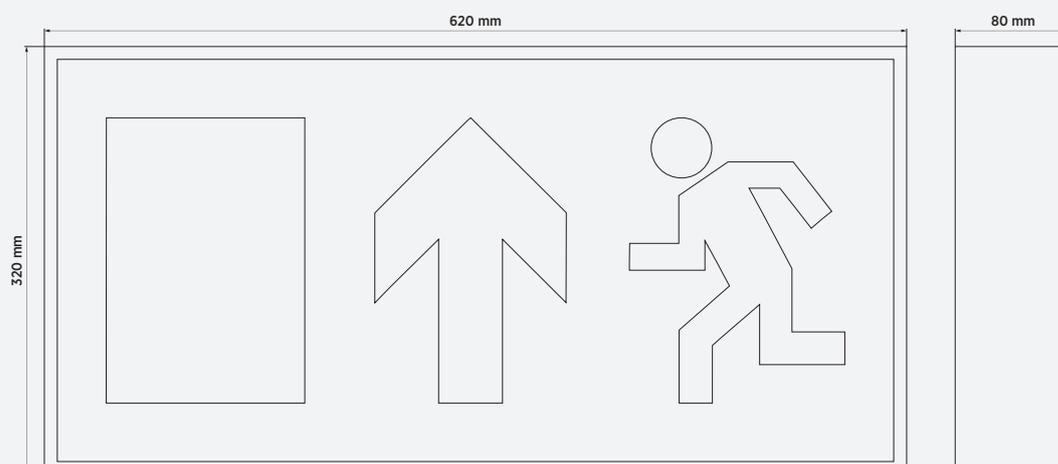
White plastic/ metal exit sign luminarie **CL-9017**



Mounting	Light source	Warranty	Size	Temperature
Sidewall, flag, two side	50.000h 6000k	5-years	620x320x80mm	0°C<Ta<45°C



The largest LED exit sign of our portfolio is the CL-9017. Due to its size the exit sign is suitable for industrial halls and big buildings with large interior, where the long visibility distance is important (60m). It can be mounted onto the sidewall.



White plastic exit sign luminaire

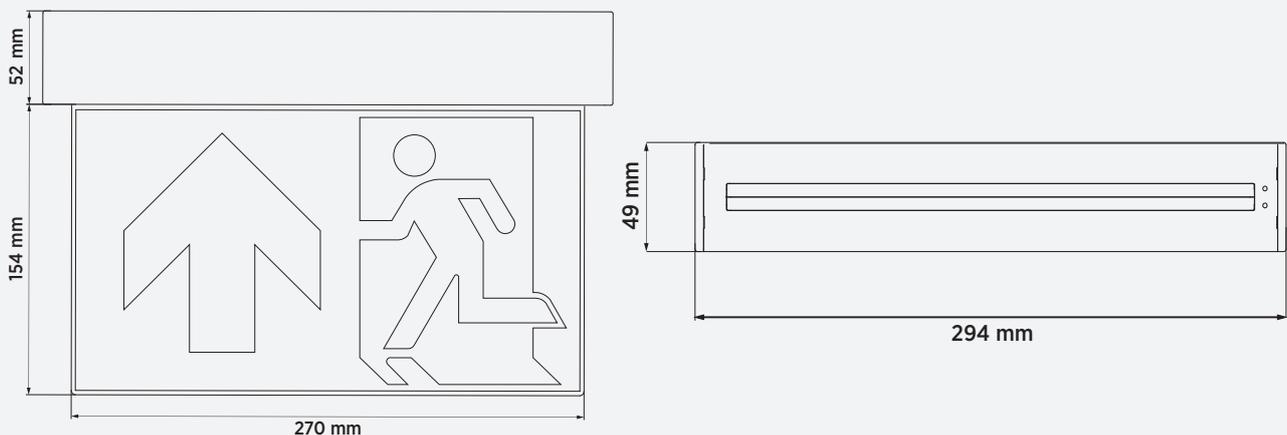
CL-414



Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag, suspended	50.000h 6000k	5-years	294x49x206mm	0°C<T _a <45°C



High-quality double sided LED exit sign. It was designed mainly for buildings with high aesthetic requirements (hotels, business centres). The CL-414 luminaire suitable for types of mounting: to the ceiling, parallel to the sidewall and perpendicularly to the sidewall. The housing is available in white or black plastic to match different interior styles.



White plastic exit sign luminaire

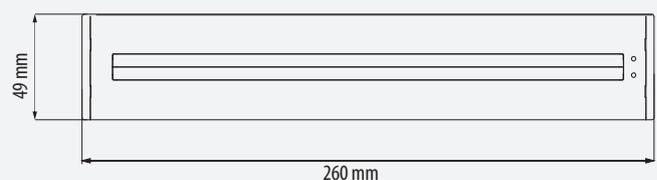
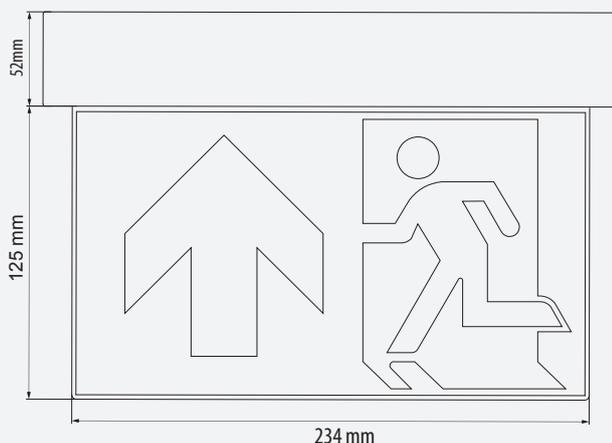
CL-417



Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag, suspended	50.000h 6000k	5-years	260x49x177mm	0°C<Ta<45°C



High-quality double sided LED exit sign. It was designed mainly for buildings with high aesthetic requirements (hotels, business centres). The CL-417 luminaire suitable for types of mounting: to the ceiling, parallel to the sidewall and perpendicularly to the sidewall. The housing is available in white or black plastic to match different interior styles. The suspension accessories are sold separately.



White plastic exit sign luminaire

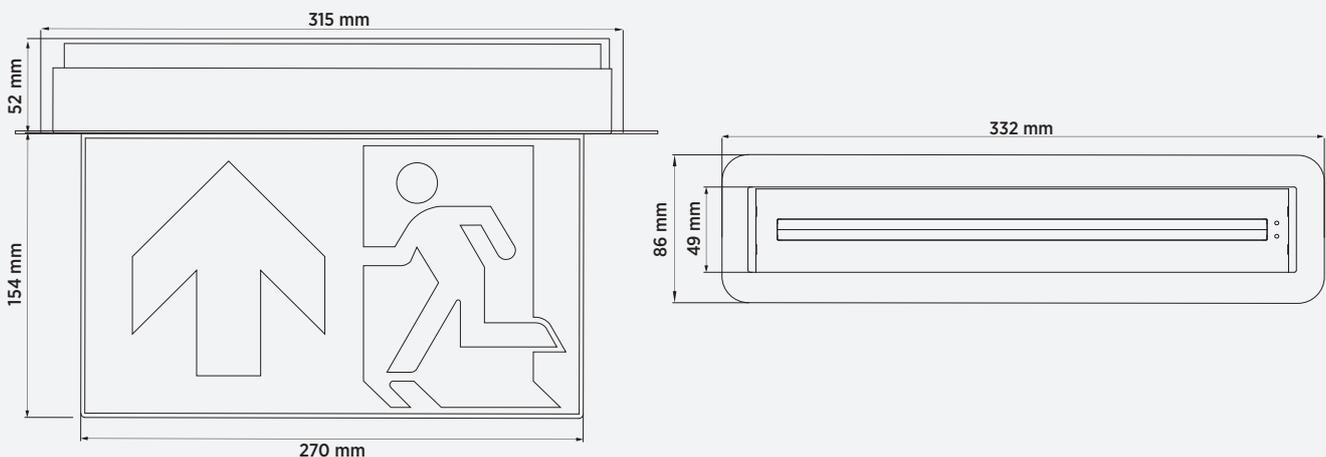
CL-414C



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	332x86x206mm	0°C<Ta<45°C



The CL-414C light is the ceiling recessed version of the CL-414 light.



White plastic exit sign luminaire

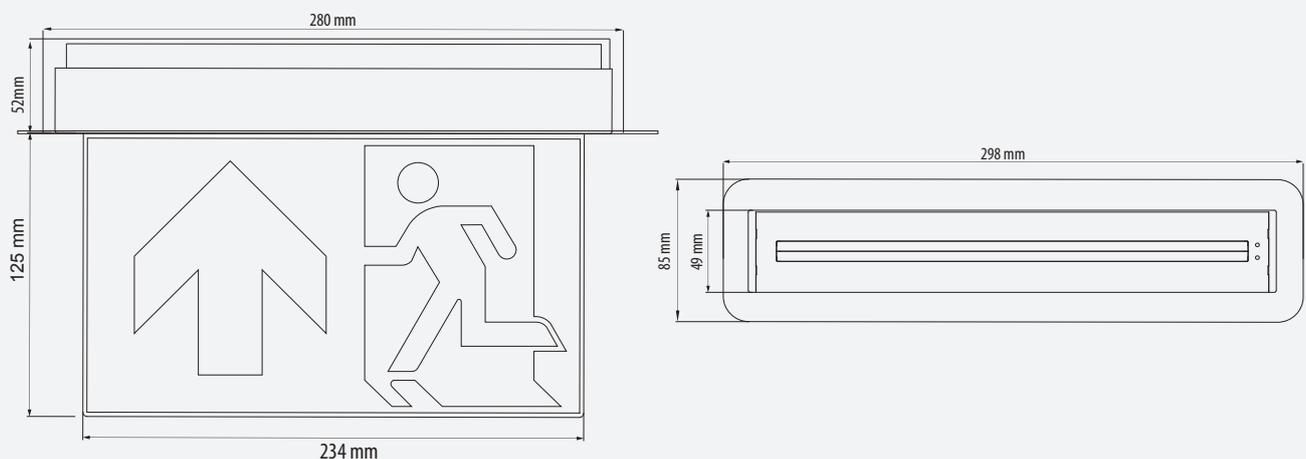
CL-417C



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	298x85x177mm	0°C<Ta<45°C



The CL-417C light is the ceiling recessed version of the CL-417 light.



White plastic exit sign luminaire

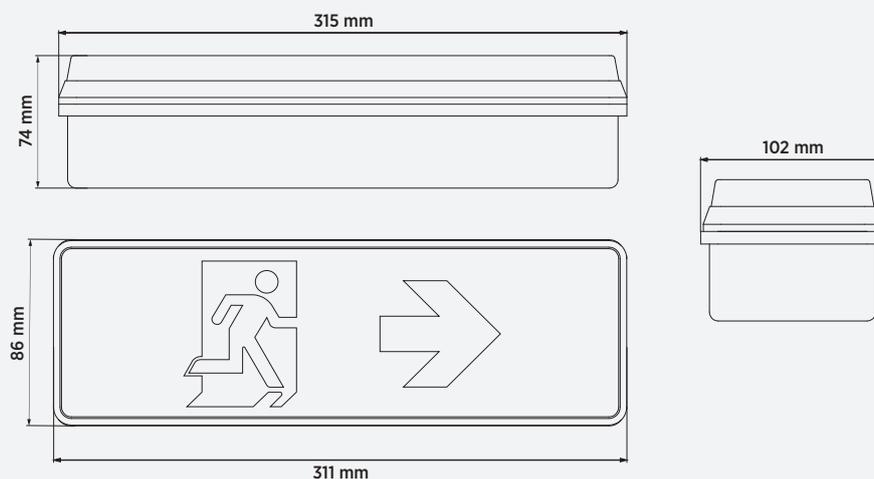
CL-617



Mounting	Light source	Warranty	Size	Temperature
Sidewall	50.000h 6000k	5-years	315x102x74mm	0°C<Ta<45°C



The CL-617 is a one-sided, sidewall-mounted LED exit sign with strong plastic housing with IP54 protection. Due to its design, it is suitable for shopping centres, office buildings, staircases, and other public buildings.



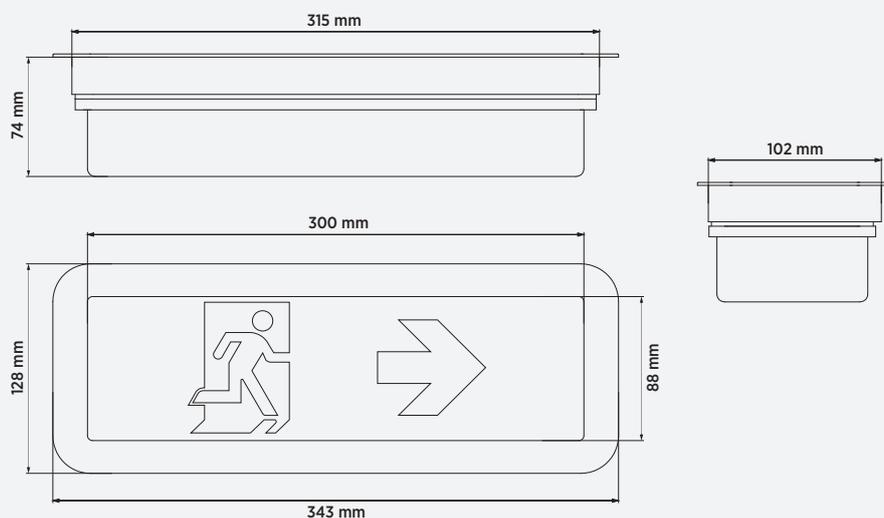
White plastic exit sign luminaire CL-817



Mounting	Light source	Warranty	Size	Temperature
Recessed into sidewall	50.000h 6000k	5-years	343x128 x74mm	0°C<Ta<45°C



The CL-817 is a one-sided, sidewall-recessed LED exit sign with strong plastic housing with IP54 protection. Due to its design, it is suitable for shopping centres, office buildings, staircases, and other public buildings.

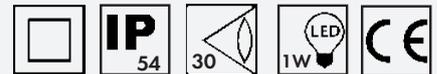


White plastic exit sign luminarie

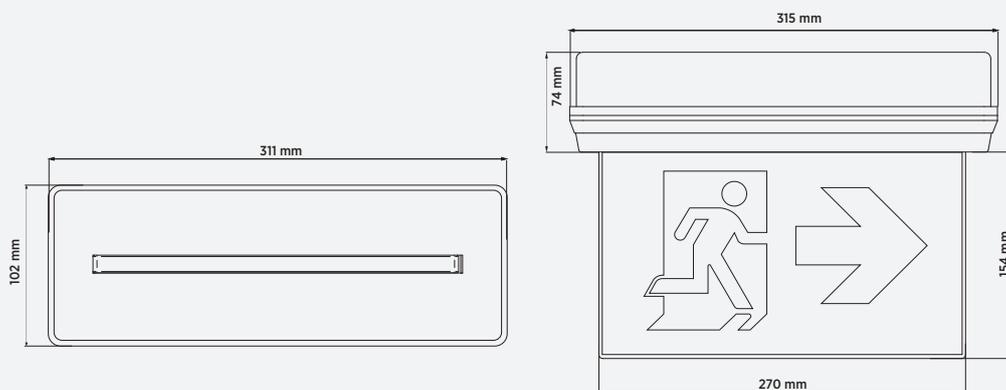
CL-617 PLEXIGLASS



Mounting	Light source	Warranty	Size	Temperature
Ceiling	50.000h 6000k	5-years	315x102x228mm	0°C<Ta<45°C



The CL-617 + plexiglass is a double-sided, ceiling-mounted LED exit sign with strong plastic housing with IP54 protection. Due to its design, it is suitable for shopping centres, office buildings, staircases, and other public buildings.

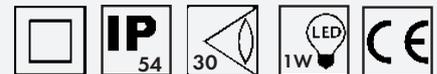


White plastic exit sign luminarie

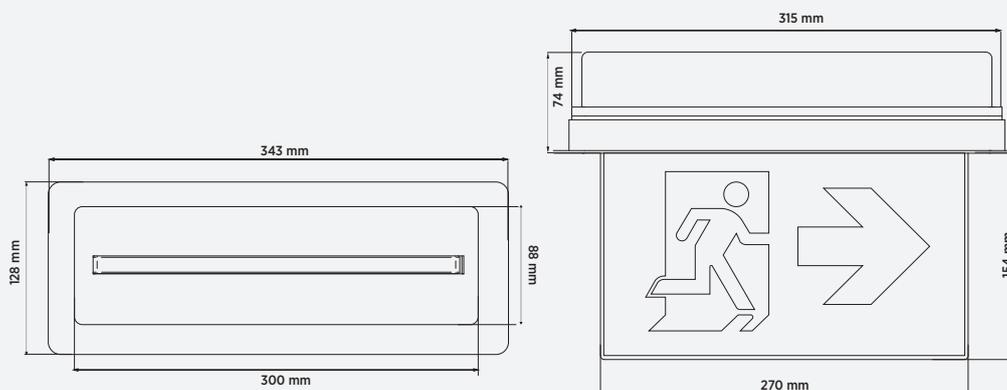
CL-817 PLEXIGLASS



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	343x128 x228mm	0°C<Ta<45°C



The CL-817 + plexiglass is a double-sided, ceiling-recessed LED exit sign with strong plastic housing with IP54 protection. Due to its design, it is suitable for shopping centres, office buildings, staircases, and other public buildings.



White plastic exit sign luminaire

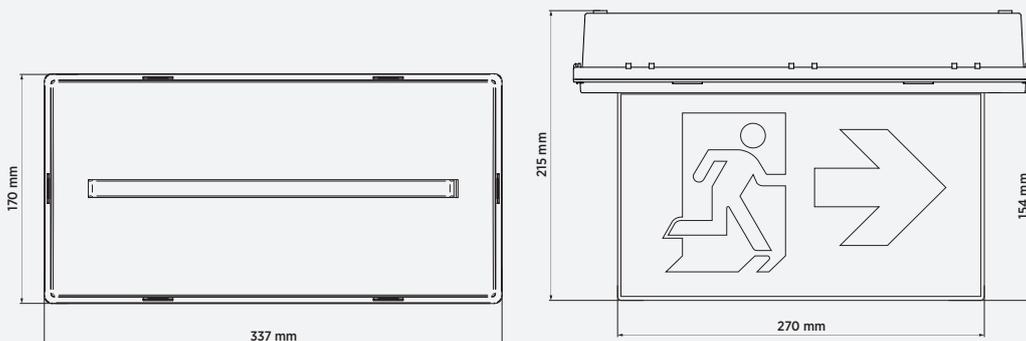
CL-6014



Mounting	Light source	Warranty	Size	Temperature
Ceiling	50.000h 6000k	5-years	337x170x 215mm	0°C<Ta<45°C



The CL-6014 is a double-sided, ceiling-mounted LED exit sign with strong plastic housing with IP65 protection. Suitable for dry and wet locations (rest room, basement, garage) and for outdoor use as well.



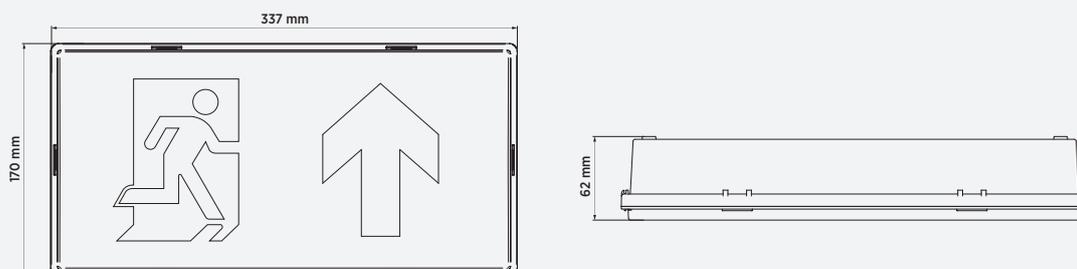
White plastic exit sign luminaire **CL-6017**



Mounting	Light source	Warranty	Size	Temperature
Sidewall	50.000h 6000k	5-years	337x170x62mm	0°C<Ta<45°C



The CL-6017 is an elegant one-sided, sidewall-mounted LED exit sign with IP65 protection. Suitable for dry and wet locations (rest room, basement, garage) and for outdoor use as well.



Grey plastic exit sign luminaire

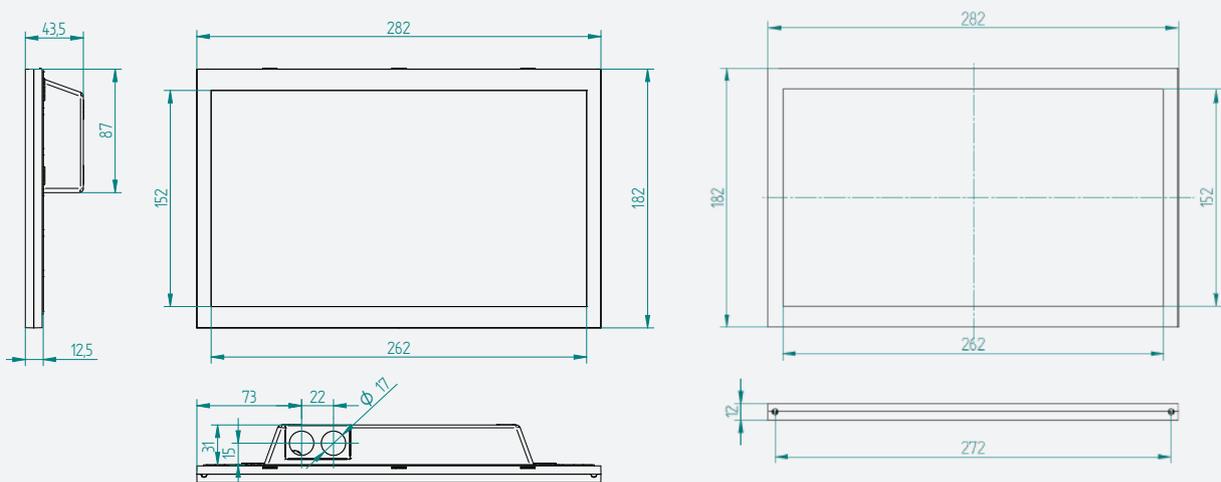
CL-415



Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, recessed into ceiling one side, recessed into ceiling two side	50.000h 6000k	5-years	282x43,5x182mm, 282x12x182mm	0°C<Ta<45°C



The CL 415 is an elegant exit sign with IP42 protection and a 30 metre viewing distance, available in single or double sided versions with sidewall mounted, ceiling recessed suspended and ceiling suspended options. It is available for 24V CBS and CBS 230 AC DC systems.



White plastic exit sign luminaire

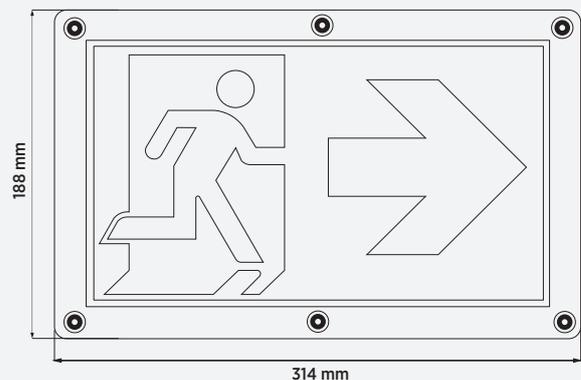
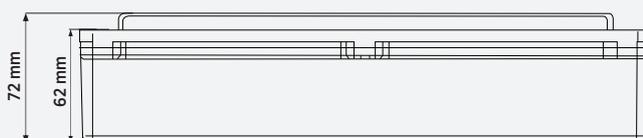
CL-8017



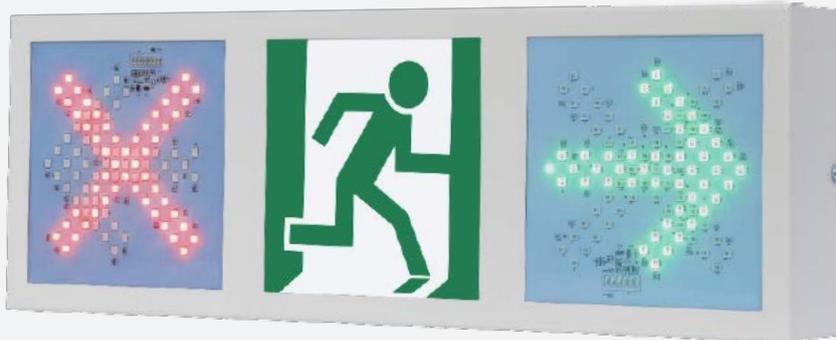
Mounting	Light source	Warranty	Class	Size	Temperature
Sidewall	50.000h 6000k	5-years	Zone 2	314x188x72mm	0°C<Ta<45°C



The CL-8017 is a one-sided, sidewall-mounted, explosion-proof LED exit sign designed for Zone 2 hazardous areas. Due to its IP65 rating, the luminaire is suitable for dry and wet locations (rest room, basement, garage) and for outdoor use as well. Ex version option available



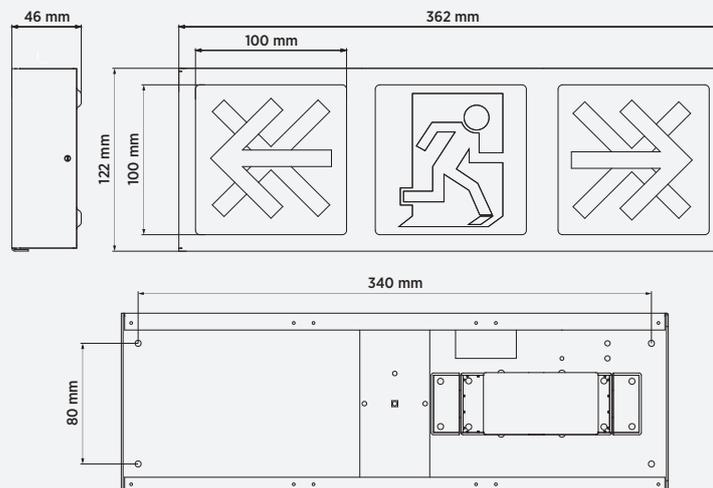
Metal grey dynamic exit sign luminarie **CL-D200**



Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling, flag	50.000h 6000k red-green cross-arrows	5-years	362x46x122mm	0°C<Ta<45°C



Dynamic LED exit light for sidewall. It is recommended in buildings where more escape routes are possible. In case of emergency the control panel receives information from the fire alarm centre regarding the location of the fire, then it informs the light about the correct escape route to show. The product is available only for the CL 600 panel.

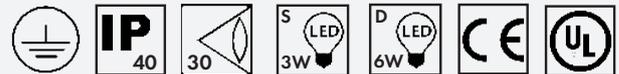


Metal grey exit sign luminarie

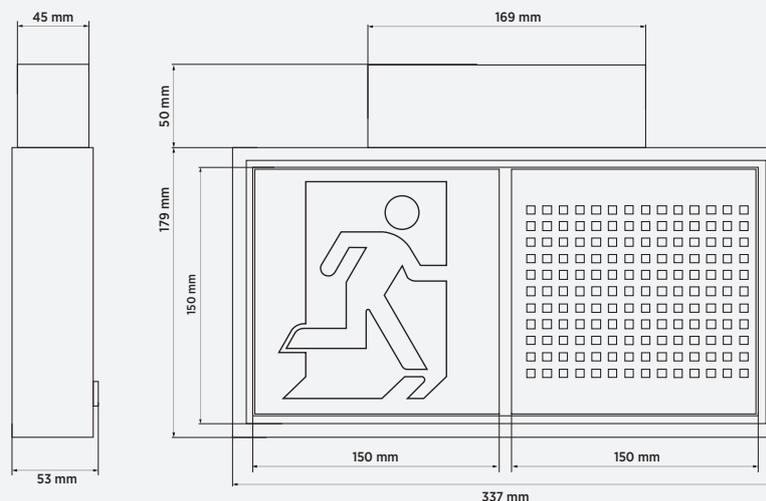
CL-D300



Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, flag one side, flag two side	50.000h 6000k	5-years	337x52x179 or 337x 52x 229mm	0°C<Ta<45°C



The CLD300 is a dynamic LED exit light with a ceiling or sidewall mounted design. It is recommended in buildings where multiple escape routes are available. In an emergency the control panel receives information from the fire alarm center about the location of the fire, then instructs the light to indicate the correct escape route. The product is available only for 24V CBS, CL600 and AC DC systems. Power rating is 3 W for single sided versions and 6 W for double sided versions.



Metal grey dynamic exit sign luminarie

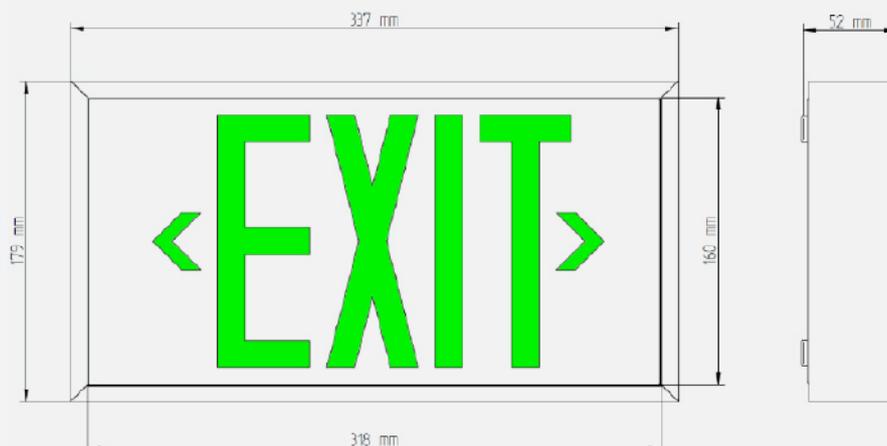
CL-D300 EXIT



Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, flag one side, flag two side	50.000h green or red "EXIT" letters variations	5-years	337x52x179 or 337x 52x 229mm	0°C<Ta<45°C



The CL-D300 EXIT is a dynamic LED exit light showing „EXIT“ with green or red letters. Two escape routes can be shown by the chevrons. In case of fire, the control panel receives the signal from the fire alarm panel regarding the location of the fire, the panel does inform the light about the right escape route to show. This model is available exclusively for the US market.



Metal grey exit sign luminarie

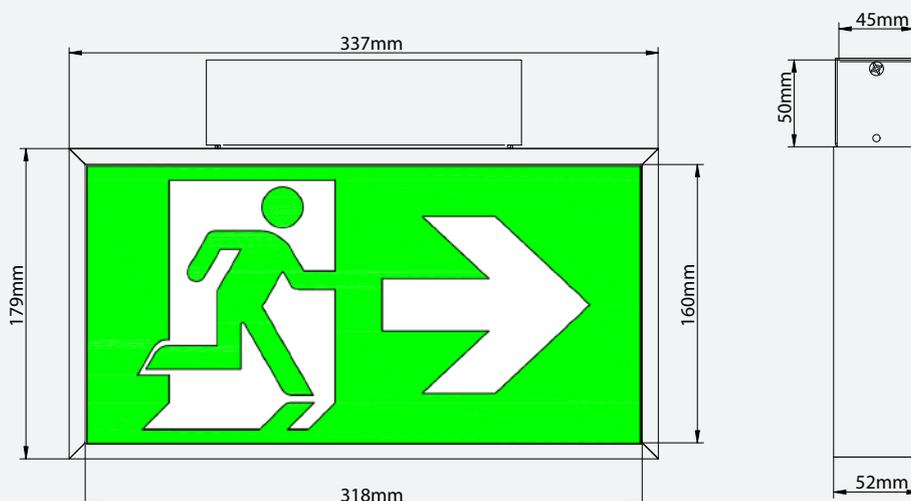
CL-D300 RUNNING MAN



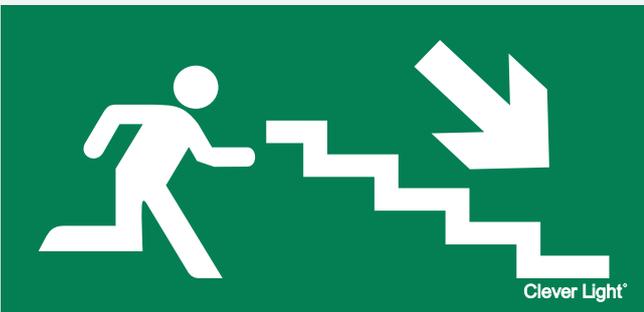
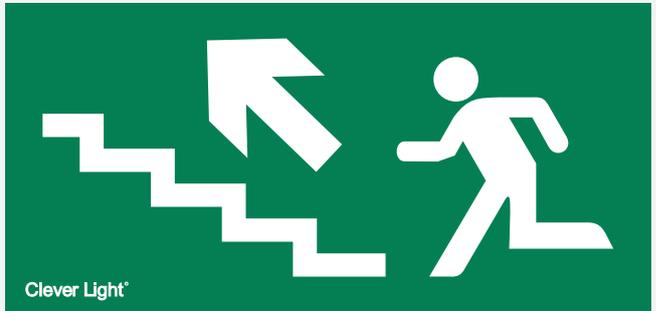
Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, flag one side, flag two side	50.000h 6000k	5-years	337x52x179 or 337x 52x 229mm	0°C<Ta<45°C



The CL-D300 Running man is a one-sided or two-sided exit light in a D300 housing. Pictogram's direction must be marked during the ordering. The product is available only for 24V CBS, CL600 and AC DC systems.



Pictograms







EMERGENCY LUMINAIRES

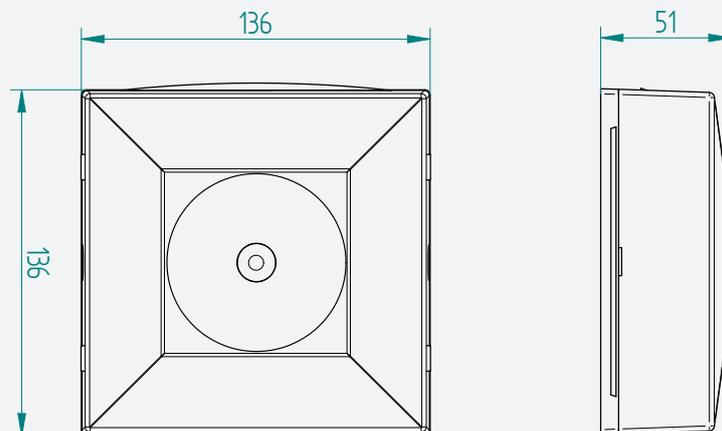
White or black plastic emergency luminarie **CL-313 R**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling, wall	50.000h 6000k	24V: 264 lm ACAC/ACDC: 267 lm CON/MB: 234 lm	5-years	136x136x51mm	0°C<Ta<45°C



An LED safety light designed for illuminating escape areas, suitable for surface mounting and equipped with a round LED lens.



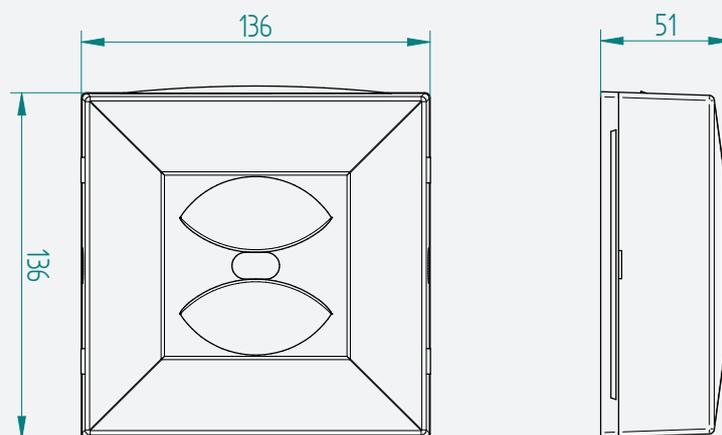
White or black plastic emergency luminarie **CL-313 F**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling, wall	50.000h 6000k	24V: 282 lm ACAC/ACDC: 280 lm CON/MB: 244 lm	5-years	136x136x51mm	0°C<Ta<45°C



An LED safety light designed for illuminating escape areas, suitable for surface mounting and equipped with a lens developed for corridors.



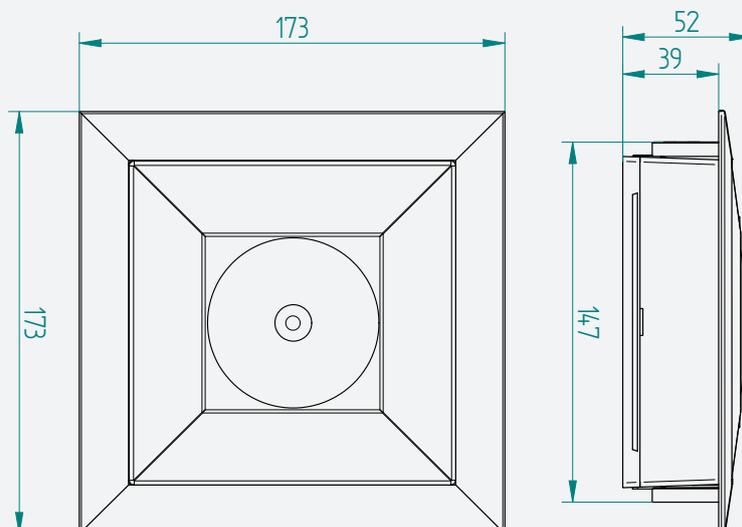
White or black plastic emergency luminarie **CL-313 C/R**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed	50.000h 6000k	24V: 264 lm ACAC: 266 lm CON/MB: 234 lm	5-years	173x173x52mm	0°C<Ta<45°C



An LED safety light designed for illuminating escape areas, recessed into the ceiling and equipped with a round LED lens.



White or black plastic emergency luminaire

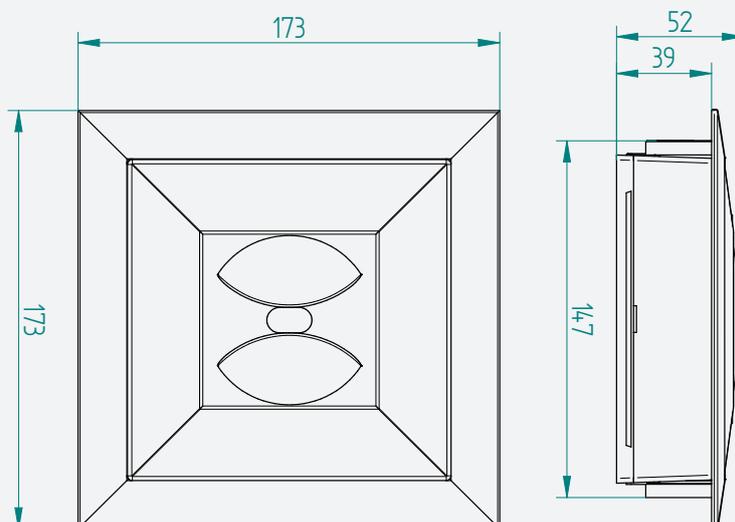
CL-313 C/F



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed	50.000h 6000k	24V: 282 lm ACAC: 280 lm CON/MB: 244 lm	5-years	173x173x52mm	0°C<Ta<45°C



An LED safety light designed for illuminating escape areas, recessed into the ceiling and equipped with a lens specifically developed for corridors.



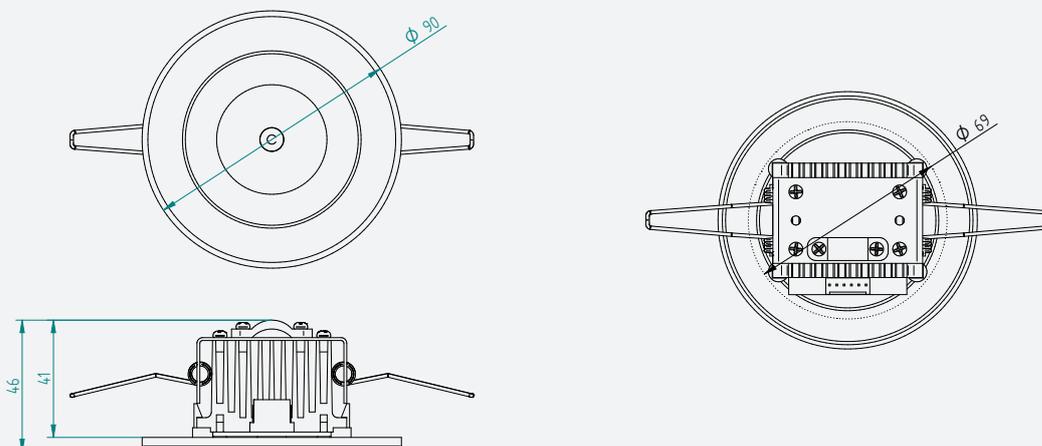
White or black plastic emergency luminarie **CL-4014R**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	24V: 365 lm ACAC/ACDC: 329 lm CON/MB: 318 lm	5-years	90x69x46mm	0°C<T _a <45°C



Aesthetic LED safety light for recessing into the ceiling. It is available with round LED lens. It has a great effective range, its practical design makes it easy to install.



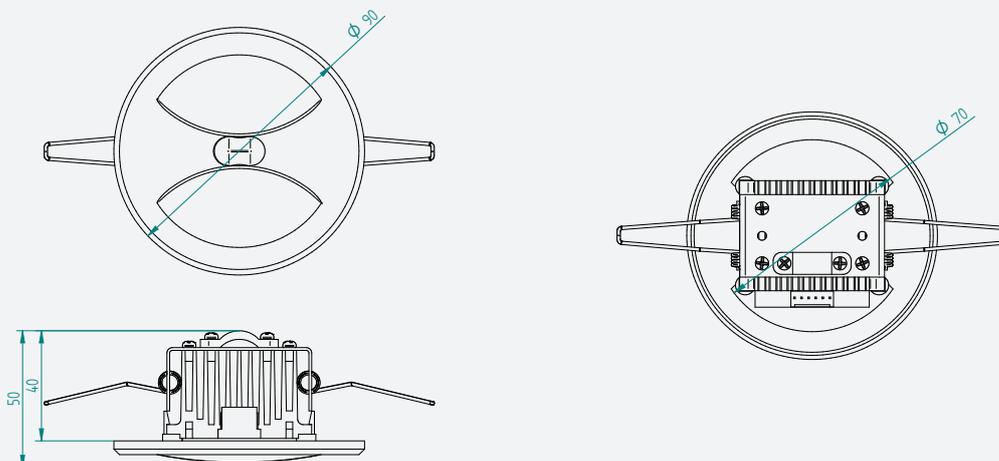
White or black plastic emergency luminarie **CL-4014F**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	24V:380 lm ACAC/ACDC: 342 lm CON/MB 324 lm	5-years	90x69x46mm	0°C<T _a <45°C



Aesthetic LED safety light for recessing into the ceiling. It is available with lens for corridors. It has a great effective range, its practical design makes it easy to install.



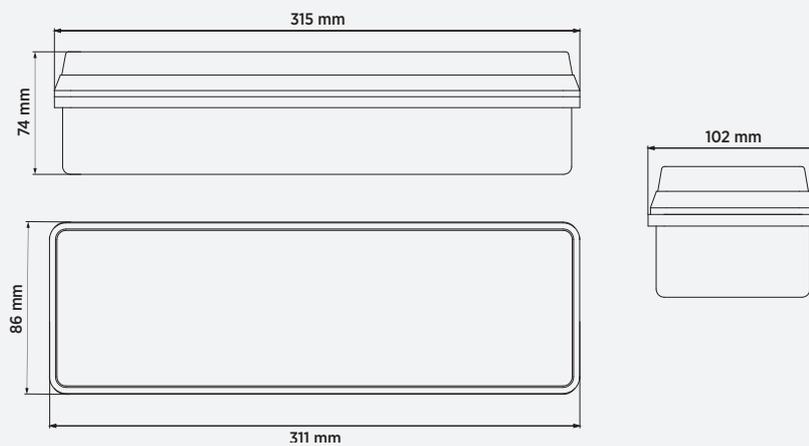
White plastic emergency luminarie **CL-613**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	294 lm	5-years	315x102x74mm	0°C<Ta<45°C



LED safety light with IP54 protection for ceilings or sidewalls. Maintained function with the built-in 1W LED.



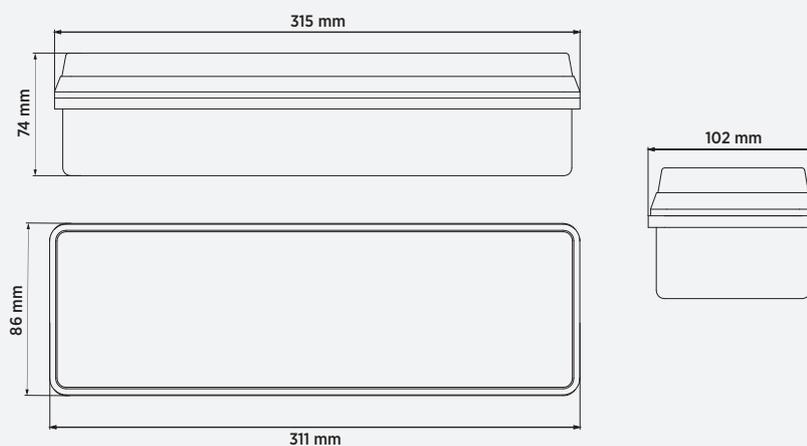
White plastic emergency luminarie **CL-616**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	24V: 699 lm ACAC/ACDC: 530 lm CON/MB: 506 lm	5-years	315x102x74mm	0°C<Ta<45°C



LED safety light with IP54 protection for ceilings or sidewalls.



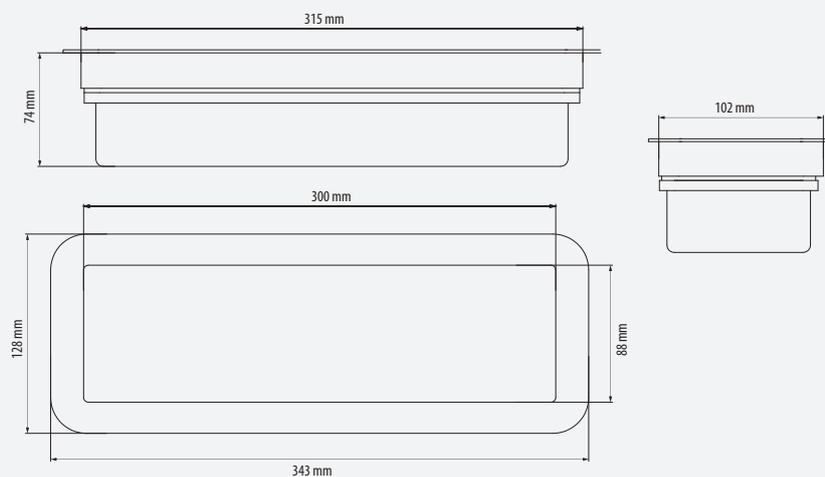
White plastic emergency luminarie **CL-813**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed, sidewall recessed	50.000h 6000k	251 lm	5-years	343x128x74mm	0°C<Ta<45°C



LED safety light with IP54 protection, can be mounted into suspended ceiling. Maintained function with the built-in 1W LED



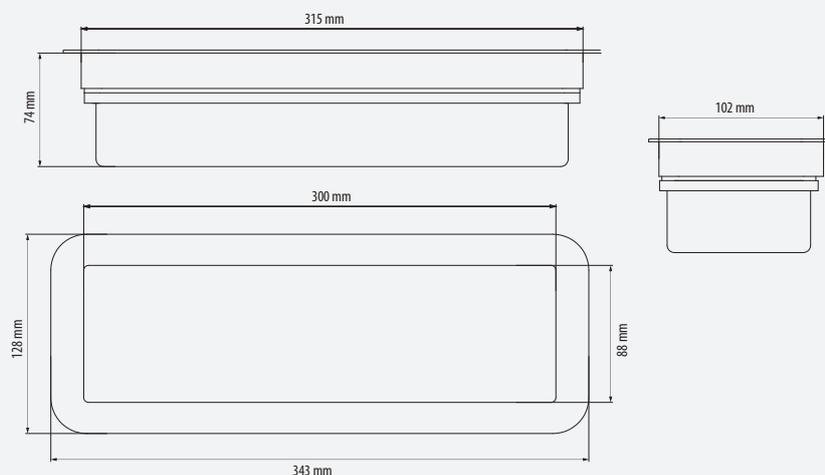
White plastic emergency luminarie **CL-816**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed, sidewall recessed	50.000h 6000k	24V: 680 lm CON/MB: 521 lm	5-years	343x128x74mm	0°C<T _a <45°C



LED safety light with IP54 protection, can be mounted into suspended ceiling.



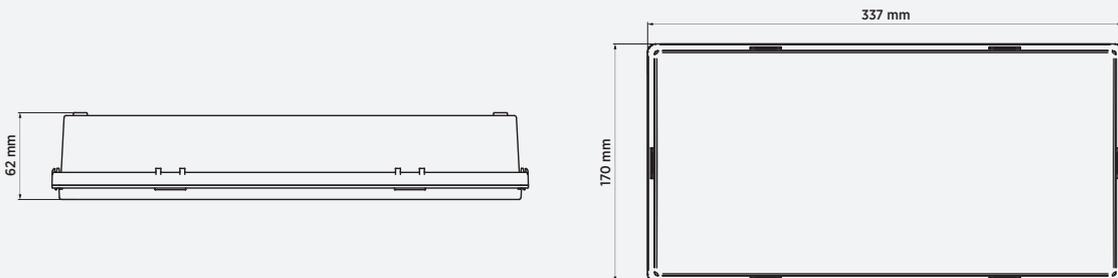
White plastic emergency luminarie **CL-6016**



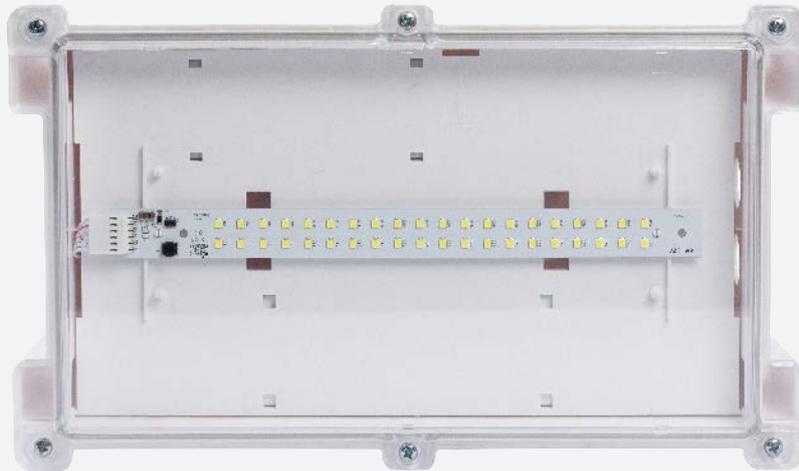
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	24V: 745 lm CON/MB: 567 lm	5-years	337x170x62mm	0°C < T _a < 45°C



Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.



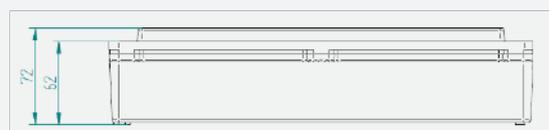
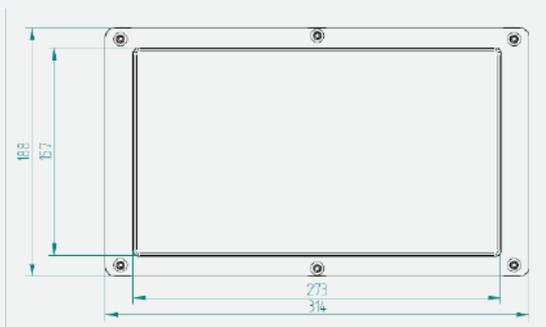
White plastic emergency luminarie **CL-8016**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	24V: 732 lm CON/MB: 581 lm	5-years	314x188x72mm	0°C<Ta<45°C



The CL-8016 is an explosion-proof LED emergency light, designed for Zone 2 hazardous areas. Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.



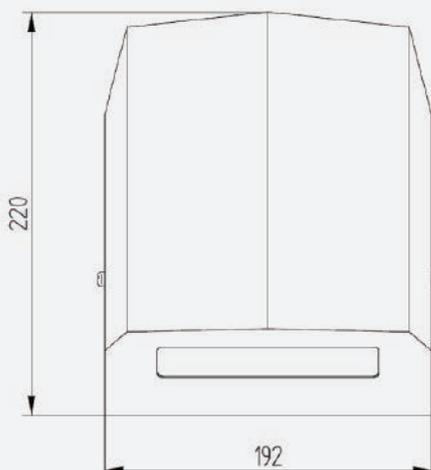
White or black metal emergency luminarie **CL-5013**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall	50.000h 6000k	306 lm	5-years	192x220x65mm	-25°C<T _a <50°C



Thanks to its IP65 protection it is suitable for both dry and wet locations such as rest rooms, basements or garages, and it can also be used outdoors. The product is available in white and black.

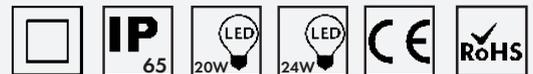


White plastic emergency luminaire

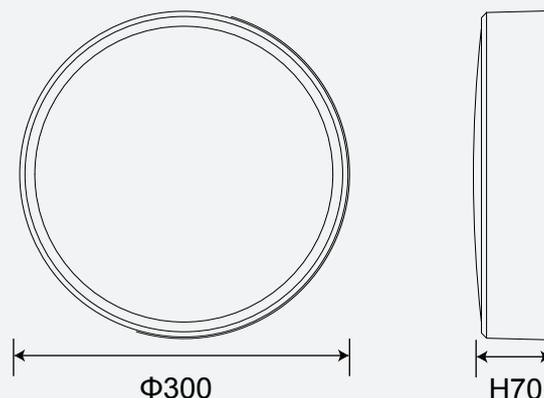
CL-300-2024/S/R



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling, Sidewall	50.000h 3000 or 4000K	2400/3000 lm 260 lm 1-3 hr	5-years	Ø300×70 mm	-20°C<Ta<45°C



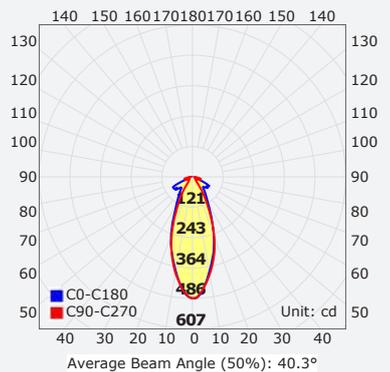
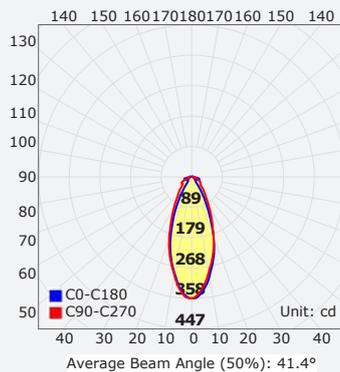
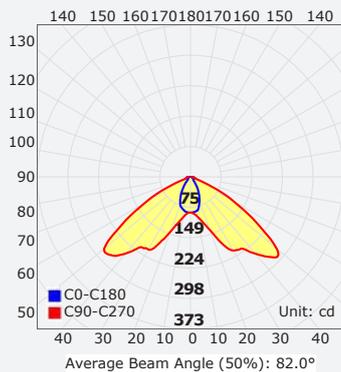
The CL 300-2024/S/R is a reliable LED luminaire in 20 W or 24 W versions, delivering up to 3000 lumens with an efficient SMD 2835 light source. It provides natural white light at 3000 or 4000 kelvin with 120 lumens per watt efficiency. Its IP65 protection makes it suitable for humid or dusty environments. The durable PC housing offers a 50000 hour lifespan, and the luminaire operates from minus 20 to 45 degrees Celsius. It is available in white.



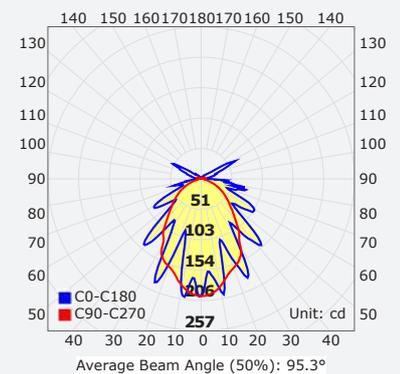
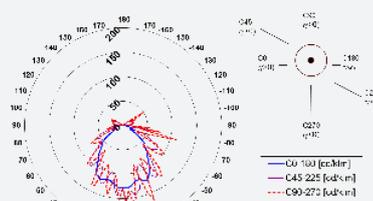
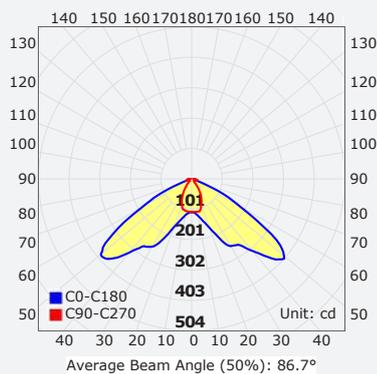


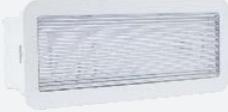


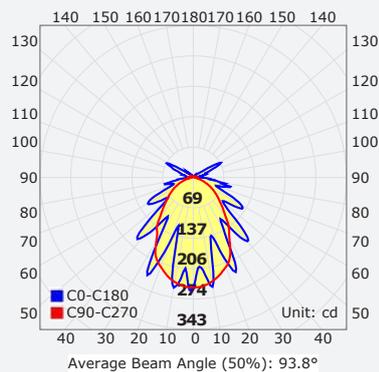
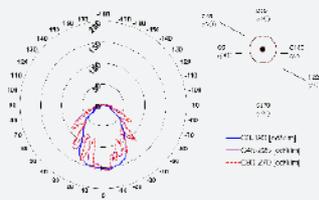
			CL 313 R							CL 313C F							CL-4014R						
Luminaire																							
Mounting height (m)			2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
Escape route min 1 lux	Axial mounting		5.6	5.8	6.4	8.7	9.3	10.1	11	4.3	4.8	5.8	6.9	6.7	-	-	5.8	6.1	7	8.3	10.2	10.6	12.3
			2.3	2.5	2.9	3.5	3.9	4	2.4	1.8	2.1	2.4	2.7	1.5	-	-	2.3	2.6	3	3.8	4	4.4	3.9
	Transverse mounting		8	8.3	9.3	10.3	10.7	12.6	11.5	10.7	12.2	14.8	19.2	21.2	-	-	10.3	11.3	12.3	10.7	11.1	11.1	11.6
			2.9	3.1	3.7	3.9	4.1	4	2.4	4.8	5.3	5.8	7.8	8.8	-	-	4.4	4.6	3.6	4.2	4.2	4.2	3.7
Open (anti-panic) area min 0.5 lux	Axial mounting		7	7.3	7.6	9.3	11.2	12.8	14.7	5.5	5.6	6.5	8.1	9.1	9.9	-	7.7	7.9	8.1	9.5	11.2	12.8	14.6
			2.6	2.7	3.1	4	4.7	5	5.1	2	2.2	2.7	3.3	3.4	2.6	-	2.7	2.8	3.3	4.2	4.9	5.2	5.7
	Transverse mounting		3.8	3.8	4	5	5.4	5.7	5.7	11.7	13.7	16.9	21.4	25.2	28.2	-	11.2	12.9	15.5	16.8	14.6	15.1	16.7
			9.8	10.7	11.2	12.8	14.2	14.4	16.5	4.9	6.1	7	8.9	10.4	10.4	-	4.9	5.4	6.3	5	5.6	5.7	5.7

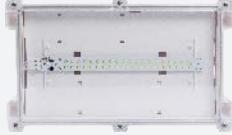


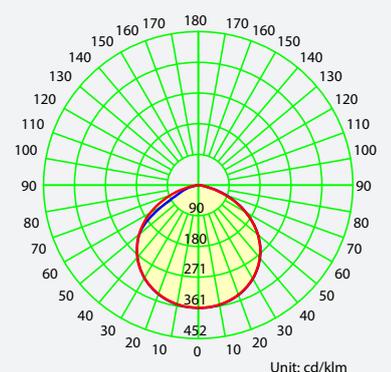
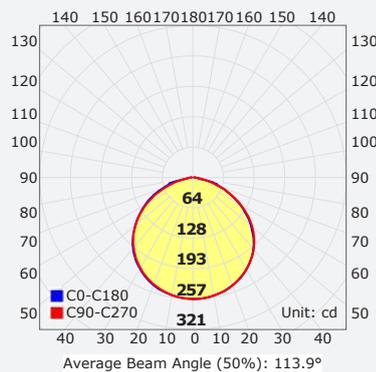
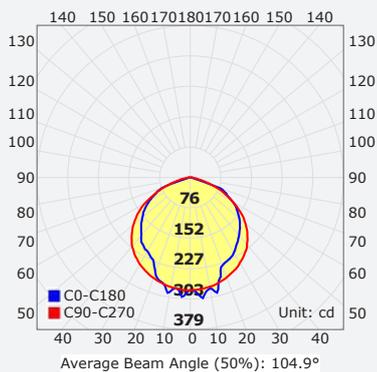
		CL-4014F							CL-613							CL-616						
Luminaire																						
Mounting height (m)		2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
Escape route min 1 lux	Axial mounting		4.7	5	6	7.6	7.9	-	-	7,43	8,38	9,71	10,58	10,68	8,29	0	11	11.5	12.6	12.8	12.9	9.3
			2	2.3	2.6	2.7	2.4	-	-	3,27	3,55	3,73	3,8	2,07	0	0	4.9	5.4	4.5	5.9	4.5	2.6
	Transverse mounting		10.9	12.5	15.1	19.5	23.2	-	-	9,37	10,09	11,19	11,56	10,27	6,18	0	8.2	9.4	10.7	12.2	13	12.9
			4.9	5.4	6.4	8.3	9.3	-	-	4,14	4,52	3,78	2,99	1,65	0	0	3.7	3.9	4.4	4.7	4.4	3.4
Open (anti-panic) area min 0.5 lux	Axial mounting		6.8	6.5	6.9	8.7	10.5	10.4	-	8,52	9,52	11,46	14,03	14,76	15,04	9,75	12.3	14	16.4	20.4	20.1	13.2
			2.1	2.4	2.9	3.6	3.8	3.6	-	3,75	4,23	4,91	5,37	5,4	4,99	0	5.4	5.7	5.1	6.5	6.4	3.6
	Transverse mounting		11.9	13.6	17.5	22.5	27	30.3	-	10,87	12,13	14,41	16,3	15,86	15,34	5,66	10.2	11.4	13.2	15.3	16.8	17.9
			5.3	6	7.4	9.4	11.2	12.4	-	4,55	5,26	6,23	5,56	4,28	2,51	0	4.3	4.5	4.9	5.8	6.7	4



		CL-813							CL-816							
Luminaire																
Mounting height (m)		2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	
Escape route min 1 lux	Transverse mounting		7.28	8.18	9.58	10.37	10.53	10.44	0	11	11.9	12.8	13.1	13.2	9.4	-
			3.17	3.47	3.6	3.71	3.38	0	0	4.6	4	4.6	4.2	4.7	2.9	-
	Axial mounting		9.29	10.44	11.61	11.47	9.39	5.58	0	8.9	9.5	10.7	12.2	13.1	13.3	-
			4.16	3.53	4.11	3.65	2.26	0	0	3.7	3.9	4.3	4.7	4.8	4.3	-
Open (anti-panic) area min 0.5 lux	Transverse mounting		8.44	9.37	11.22	11.88	14,37	14,99	12,65	12.7	14.2	16.6	18.7	18.2	18.1	13.3
			3.66	4.11	4.8	5.2	5.32	5.28	0	5.5	5.9	5.1	6.7	6.6	6.1	3.8
	Axial mounting		10.5	11.97	14.27	16.44	15.72	15.72	7,7	10.5	11.6	13.5	15.7	17.2	18.3	17.3
			4,87	5.39	4.87	6.09	5.08	3.19	0	4.4	4.6	5.1	6	6.6	6.6	5.1



			CL-6016							CL-8016							CL-5013						
Luminaire																							
Mounting height (m)			2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
Escape route min 1 lux	Transverse mounting		11	12.2	14.4	16.2	17.5	18.2	4.7	11	12.3	14	16.3	17.3	17.5	7.7	7.625	7.75	8.05	8.12	8.25	-	-
			4.7	5.1	5.7	6.8	6.8	6.1	5.6	4.7	5.1	5.6	6.1	5.8	5.3	2.8	3.813	4.15	4.31	4.35	4.39	-	-
	Axial mounting		11	12.2	14.4	16.2	17.5	18.2	4.7	11	12.3	14	16.3	17.3	17.5	7.7	7.625	7.75	8.05	8.12	8.25	-	-
			4.7	5.1	5.7	6.8	6.8	6.1	5.6	4.7	5.1	5.6	6.1	5.8	5.3	2.8	3.813	4.15	4.31	4.35	4.39	-	-
Open (anti-panic) area min 0.5 lux	Transverse mounting		13.2	14.6	16.3	20	22.2	24.4	25.6	13.2	14.5	16.7	19.8	22.7	23	24.2	11.4	12.2	13.3	15.8	15.8	-	-
			5.4	5.9	6.8	8.3	8.4	8.2	7	5.4	5.7	6.7	7.8	8	8.2	6.8	4.7	5.2	5.7	6.5	6.5	-	-
	Axial mounting		13.2	14.6	16.3	20	22.2	24.4	25.6	13.2	14.5	16.7	19.8	22.7	23	24.2	11.4	12.2	13.3	15.8	15.8	-	-
			5.4	5.9	6.8	8.3	8.4	8.2	7	5.4	5.7	6.7	7.8	8	8.2	6.8	4.7	5.2	5.7	6.5	6.5	-	-



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