Clever Light®

2025



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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.

















REFERENCES — Clever Light ®







Clever Light ® REFERENCES







REFERENCES — Clever Light ®







Clever Light ® REFERENCES









U U D ESS. ABLE E SYSTE S

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: DC230V

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

Max. input current: 50A

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

Max. output current: 50A @ 1hour

Max. 72-line output with 20pcs addressable devices/line, total number of lights: Max 1200/panel

Controller module slot number: max. 20pcs, 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: $7 \times M20$, $30 \times M25$, $4 \times M30$

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

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, 4 pcs configurable potential free input on master panel board

Housing color and material: Grey metal

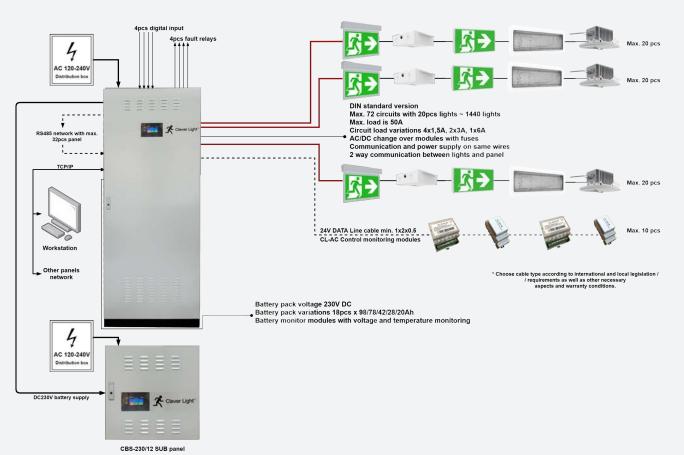
Constant nominal ambient temperature range: 0°C<Ta<25°C

Warranty: 5-years repair warranty



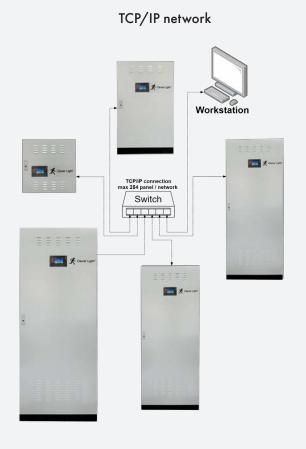


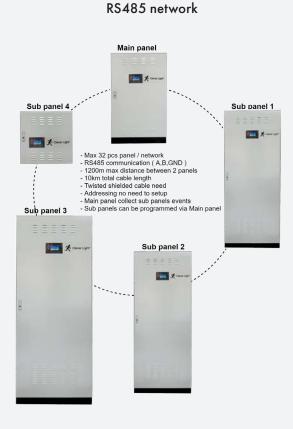




Panel type		BS-230-72)	CBS-2	30-44		CBS-230-24	4	CBS-230-12	CBS-230-12/SUE
Input voltage	120-240 AC									
Output voltage		120-240 AC standby mode, 230V DC emergency mode								
Max input current		50A		50)A		50A		15A	15A
Number of batteries					18pcs					-
Batteries capacity	*98Ah	<i>7</i> 8Ah	42Ah	42Ah	28Ah	98Ah	<i>7</i> 8Ah	42Ah	20Ah	-
Max load 1 hour	50A	40A	20A	20A	15A	50A	40A	20A	11 A	-
Max load 3hour	25A	20A	9A	9A	7A	25A	20A	9A	5A	-
Number of lights		1200		88	30		480		240	320
Max module slot		20 12 8				4	4			
Number of circuits		72 44 24				12	16			
Change-over modules					4×1,5	A, 2x3A, 1	хбА			
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.						ble.		
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 input									
Protection	IP20/54 option									
Dimensions	2100x800x430 2100x800x430 2100x800x430 1200x600x330			600x600x330						
Total weight	704kg	562kg	295kg	340kg	250kg	694kg	552kg	404kg	142kg	25kg

Network variations





Change-over modules, battery charger and battery monitor

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

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

DC voltage range: 176V-255V

Number of circuit: Current limit for circuit: 1,5A Max. connected number of lights: 4x20

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

DC voltage range: 176V-255V

Number of circuit: 2 Current limit for circuit: 3A Max. connected number of lights: 2x20

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

176V-255V DC voltage range:

Number of circuit: Current limit for circuit: 6A Max. connected number of lights: 30 CL-LD-A 4x1,5A



CL-LD-A 2x3A



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: 120V-240V 50/60Hz

Max. DC output voltage: 252V Max. output current: 4A Max. number of modules/panel: 2 Number of connected batteries: 18

The CL-BC/M module can monitor the voltage and temperature of each individual battery block. All datas can be read on the master panel's LCD and with software too. If any battery fails, the battery monitor automatic detect and communicate to 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 1200m (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 AC 110-230V

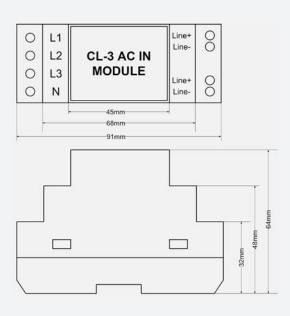
Current consumption: 35mA Rated power: 0,85W

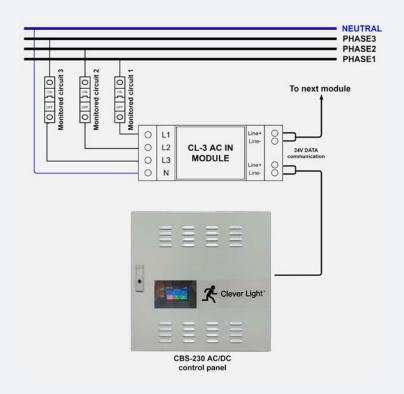


The CL-3AC IN voltage monitor input module is suitable for monitoring 3 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data communication 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 current values:** 4–30W, 8–100W, 30–200W

Mounting: With bolts into light cabinet or in junction box

Connected light load range: 3W-100W External phase input: AC 120-240V 50-60Hz

Housing: Polycarbonate **Size:** 99mm x 41mm x 30mm

Cabling: Max. 2.5mm2 twisted or solid wire **Operation:** Standby, maintained, emergency

Switcing time: <500ms

Mains supply normal operation: AC 120-240V 50-60Hz

Mains supply emergency operation: DC 230V

Input current: 11 mA Rated power: 3 VA

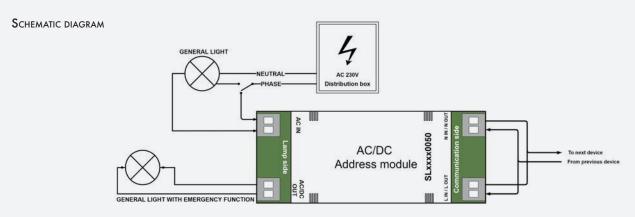
Constant nominal ambient temperature range: 0°C<Ta<45°C

Protection: IP20 Certification: CE, UL

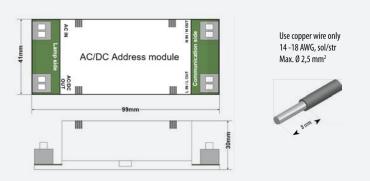
Warranty: 5 years repair warranty



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.



DIMENSIONS



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

Warranty: 2 years repair warranty

Housing: Polycarbonate **Size:** 99mm x 41mm x 30mm

Cabling: Max. 2.5mm2 twisted or solid wire

Operation: Pass-through DALI command and overwrite **Mains supply normal operation:** AC 120-240V 50-60Hz

Mains supply emergency operation: DC 230V

Input current: 11 mA Rated power: 3 VA

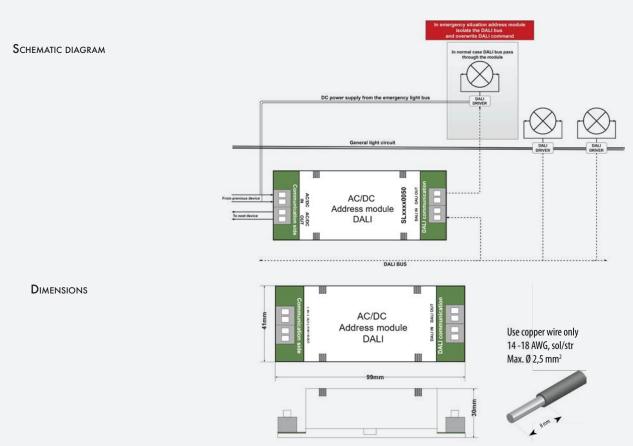
Constant nominal ambient temperature range: 0°C<Ta<45°C

Protection: IP20 Certification: CE, UL

Warranty: 5 years 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.



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 (1x2x2.5mm2)

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 110-230V

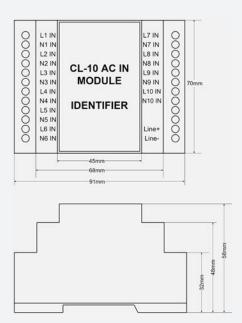
Current consumption: 35mA

Rated power: 0,85W

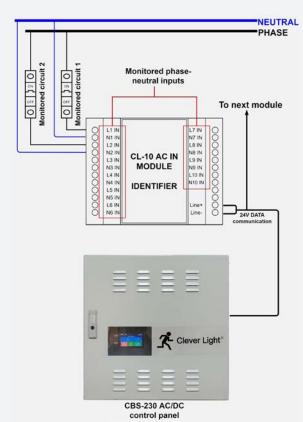


The CL-10 AC IN voltage monitor input module is suitable for monitoring 10 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data 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

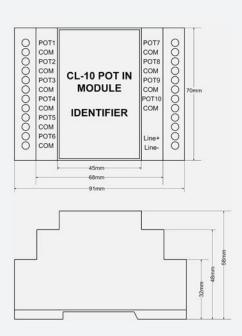
Current consumption: 35mA

Rated power: 0,85W

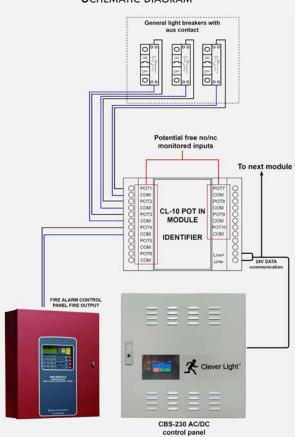


The CL-10 POT IN input module is suitable for monitoring 10 potential free normally open or close contact. In case of monitored input changed it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data communication signal are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

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 120-240V 50/60Hz

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

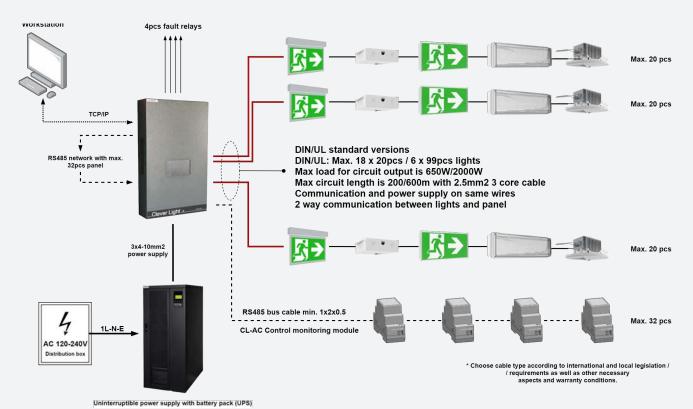
Constant nominal ambient temperature range: $0^{\circ}\text{C}<\text{Ta}<25^{\circ}\text{C}$











Network variations

PANEL TYPE	CL-601	CL-602	CL-603	CL-604	CL-605	CL-606
INPUT VOLTAGE	120-140 AC					
OUTPUT VOLTAGE			120-140 A	AC .		
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 input					
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 and CL24V $\,$

CB control panels

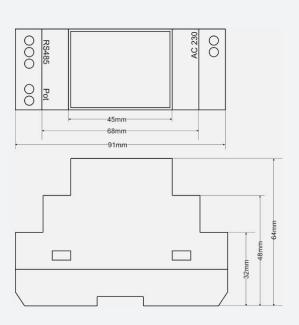
Input voltage AC 110-230V **Current consumption:** 11mA

Rated power: 2.5VA Battery: 6V 80mAh

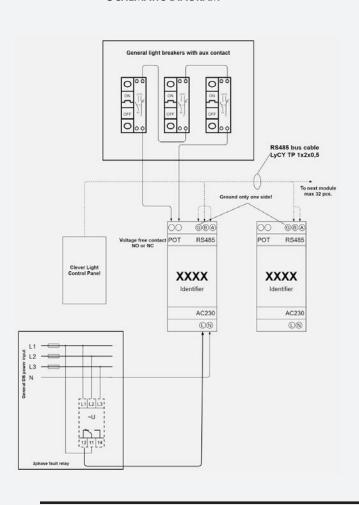


The CL-AC230 voltage monitor input module is suitable for monitoring normal lighting circuits in building distribution cabinets. In case of monitored phase loss or change of the potential-free input it's activated and send signal to master panel. It can control 3 different lamp groups and 1 fire group. 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: AC 120-240V 1 phase

Warranty: 5 years repair warranty

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 120-240V 50-60Hz

Input current: 11 mA Rated power: 3 VA

Constant nominal ambient temperature range: 0°C<Ta<45°C

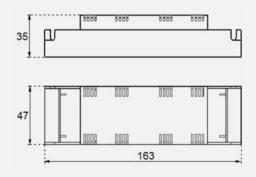


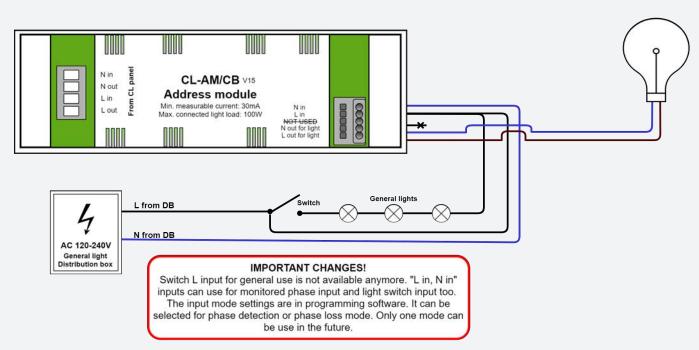






The module automatically switches the lamp to emergency mode when the phase input is configured to monitoring function. This input also can be configured to general light switch phase input too.



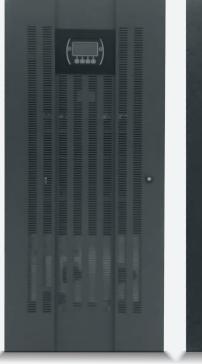




CPS-Central Power Supply

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 99 devices,

CL200 - 2 outputs with 198 devices,

CL300 - 3 outputs with 297 devices,

CL400 - 4 outputs with 396 devices.

Clever Light commissioning, graphic or end-user software

Mounting: Sidewall

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

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: 12A

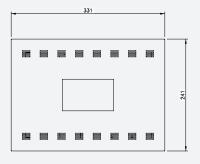
Output voltage: AC 120-240V 50/60Hz with communication signal Constant nominal ambient temperature range: 0°C<Ta<25°C



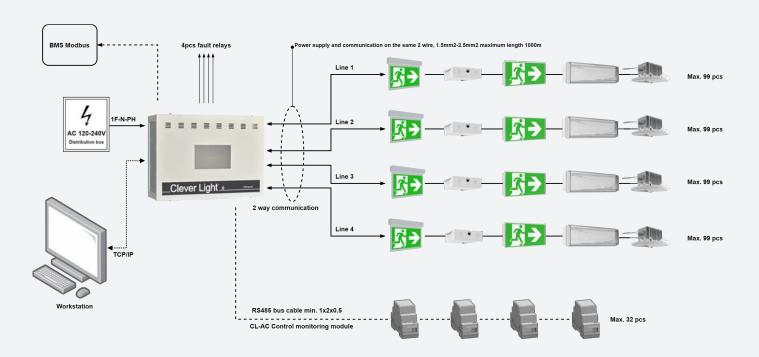








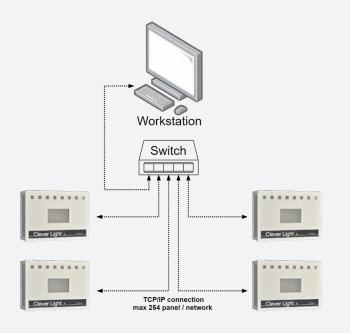


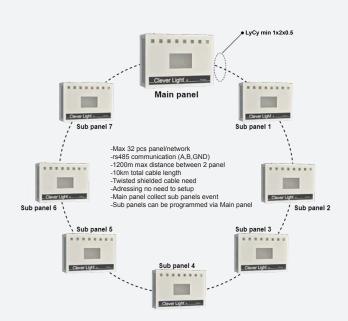


Network variations

TCP/IP network

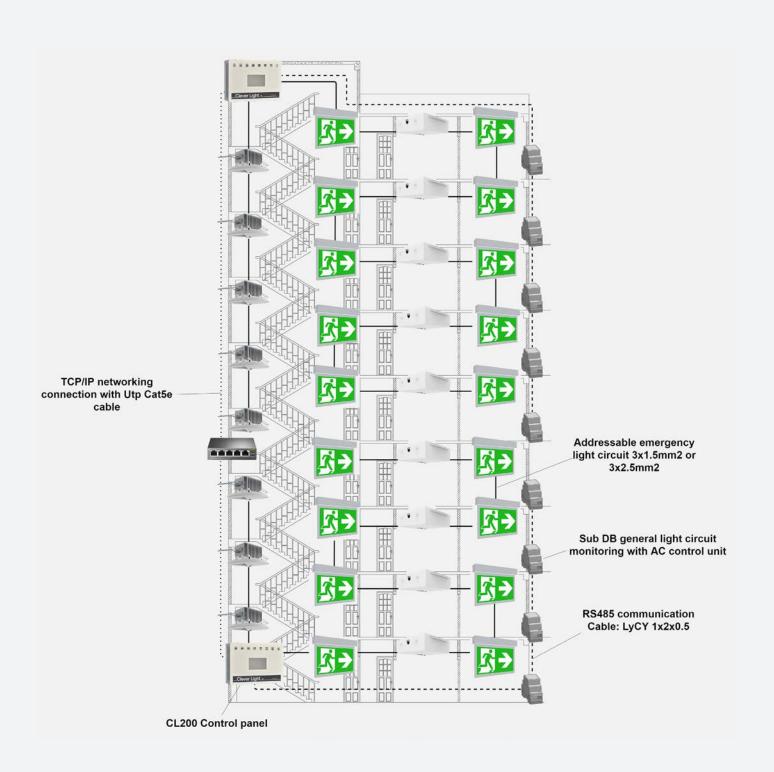
RS485 network





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	99	198	297	396	
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 input				
Protection	IP20				
Dimensions	331×241×113				

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

Warranty: 5 years repair warranty

Housing: Polycarbonate

Size: Outer diameter x Inner diameter x Height: 163mm x 35mm x 47mm

Cabling: Max. 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<Ta<45°C

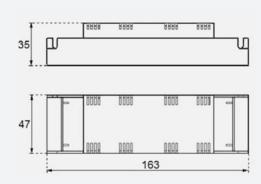


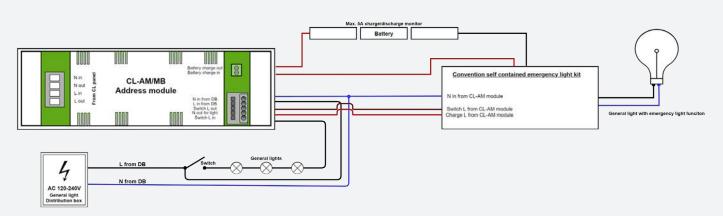






The module automatically switches the emergency mode when the monitored phase is lost. This input must be connected, the light battery charger is supply from there. In order to observe the battery charge and the status of the lamp, the positive wire of the battery must be passed through the module. The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

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

Dimensions: 331mm x 241mm x 113mm

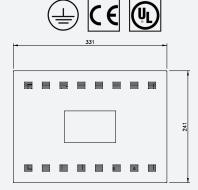
Cable connection: Max. 2.5mm² cross-section solid or sleeved twisted wire

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

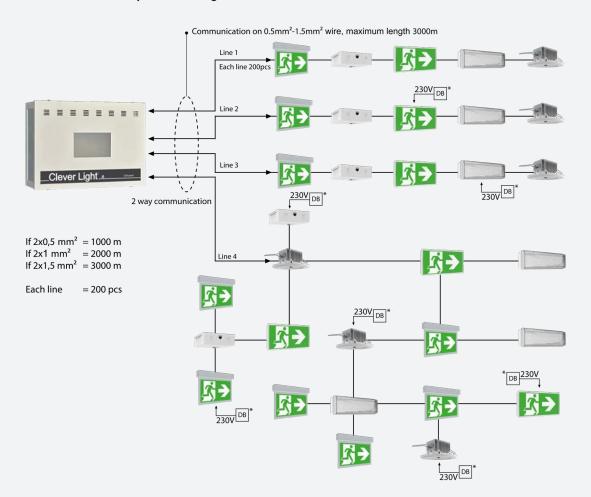
Max. input current: 1A/24V

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



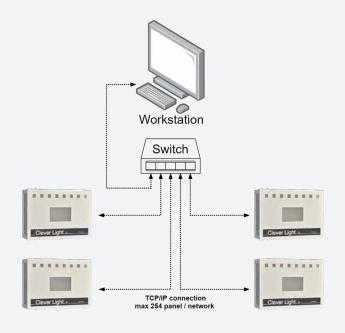


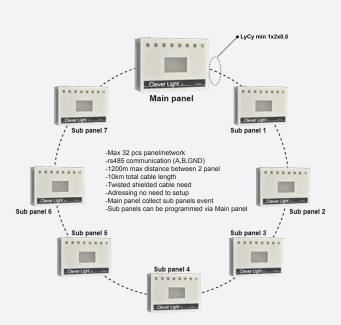




Network variations

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 input					
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

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

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: 0,2A

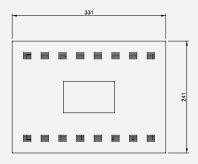
Constant nominal ambient temperature range: 0°C<Ta<25°C



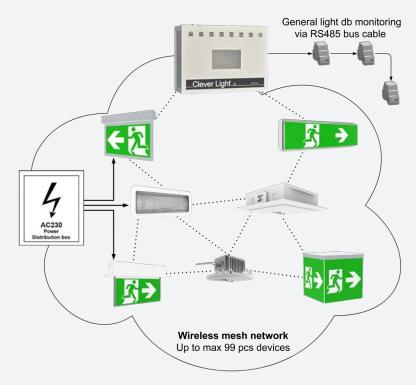








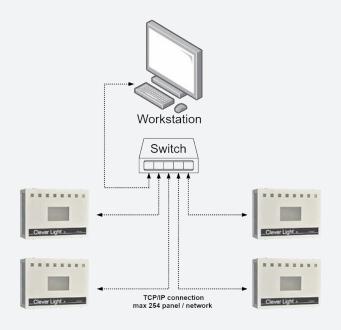


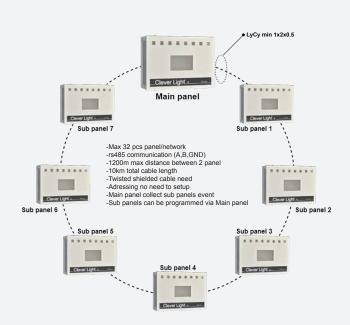


Network variations

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 input	
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 line output with 3A/line load and 20pcs addressable devices

Total load: 18A, 10A for maintained lights

Battery: 2 or 4 pcs 45Ah

Clever Light commissioning, graphic or end-user software

Mounting: Sidewall

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

RS485 ring network communication between 32 pcs panel

32 pcs phase monitor modules for monitoring lighting distributors

4 pcs configurable fault relays

Dimensions: 534x475x186, 754x475x186

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

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

Max. input current: 2A

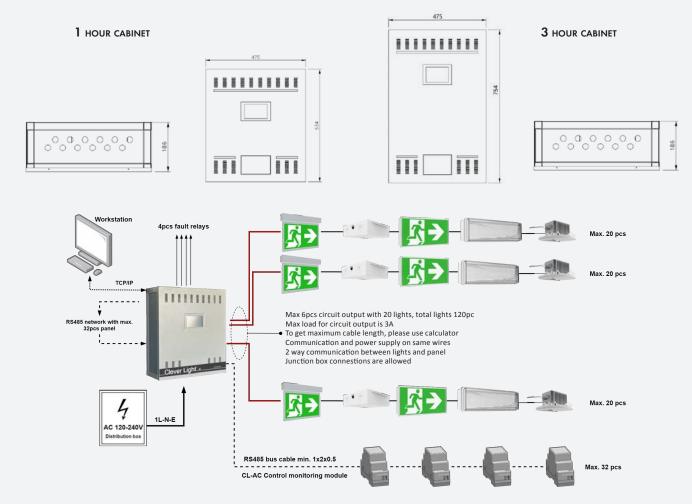
Constant nominal ambient temperature range: 0°C<Ta<25°C

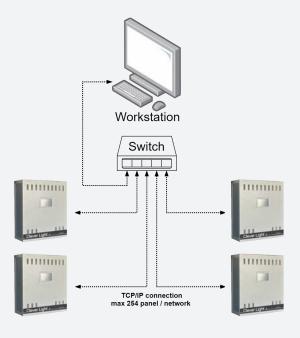


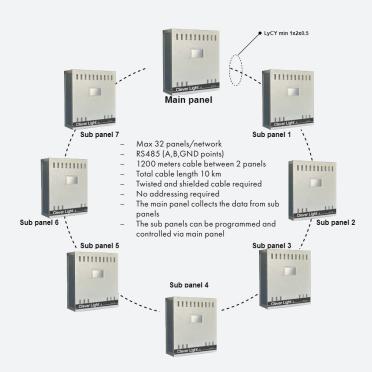












- With controlled battery charger for 2 or 4 battery
- Individually addressed
- It embodies the benefits of the central battery system
- Monitors all individual components of the system
- Gathers all collected information to a single location
- Fast and cost-effective maintenance
- The system records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

- 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 1 HOUR	CL-24V CBS 3Hours		
Input voltage	120-240 AC			
Output voltage	24-32V DC			
Max input current	2	² A		
Batteries capacity	45	5Ah		
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 input			
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 line 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

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

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 or sleeved twisted wire

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

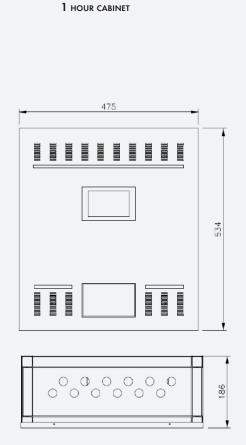
Max. input current: 2A Output voltage: 24-32V

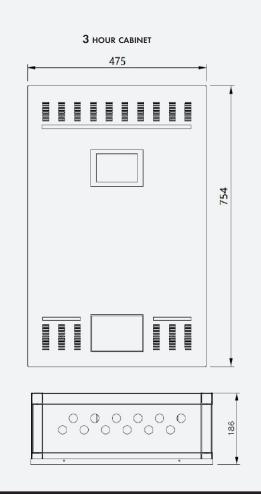
Constant nominal ambient temperature range: 0°C<Ta<25°C

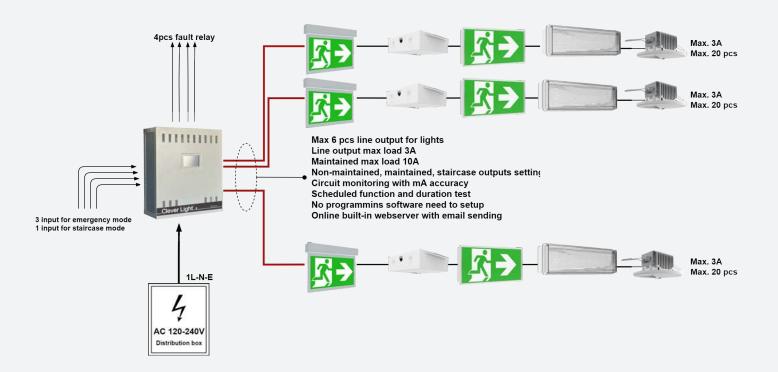












PANEL TYPE	CL-24V CON CBS 1 Hour	CL-24V CON CBS 3Hours	
INPUT VOLTAGE	120-2	240 AC	
OUTPUT VOLTAGE	24-3	2V DC	
MAX INPUT CURRENT	2	2A	
BATTERIES CAPACITY	45	5Ah	
Number of batteries	2	4	
Number of lights	1	20	
Number of circuits	6		
CIRCUIT FUNCTIONS	Non-maintained, maintaned, timer staircase		
MAX. CIRCUIT LOAD	3A		
MAX OUTPUT LOAD	1	8A	
MONITOR MODULES	Max. 32pcs CL-AC control	modules on RS485 bus cable	
DISPLAY	5"	LCD	
Software	Webserver wit	h e-mail sending	
Network communication	TCP/IP		
EXTERNAL INPUT/OUTPUT	3 inputs for sub-db monitoring, 1 input for staircase, 4 programmed fault relays		
Protection	IP20		
DIMENSIONS	534x475x186	754×475×186	

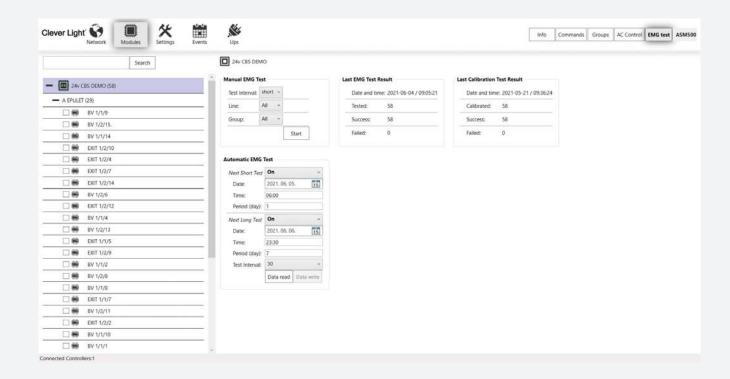
Software

> installer

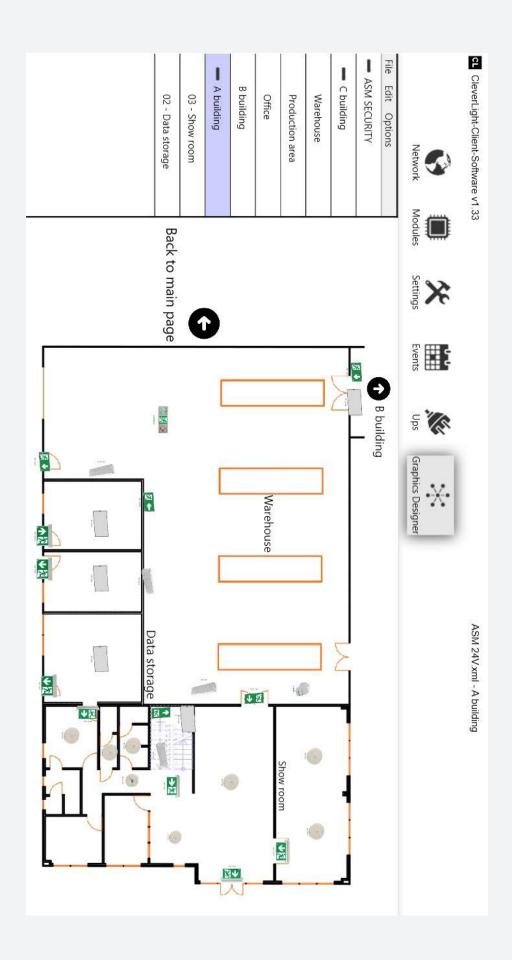
CL-UNI software versions: > client

> 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 7/8/10
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





Ш X S **Q** Z N R E S

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< td=""></ta<45°c<>

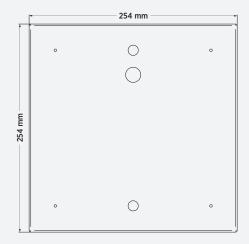


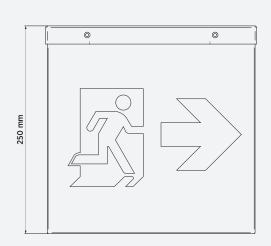






Our four-sided exit light specially developed for large public areas and industrial scale halls. Suitable for airports and shopping malls as well, due to its visibility distance (46m). It is applicable for ceiling or it is available in hanging design. With unique pictograms, it's practical not only for 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	50.000h	5-years	620x320x80mm	0°C <ta<45°c< th=""></ta<45°c<>





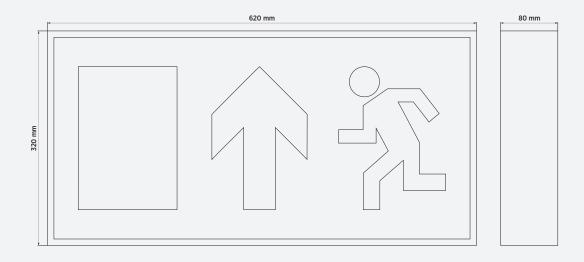








The largest LED exit sign of our portfolio is the CL-9017. Due to its size the exit sign is suitable for industrial halls and big buildings with large interior, where the long visibility distance is important (60m). It can be mounted onto the sidewall.

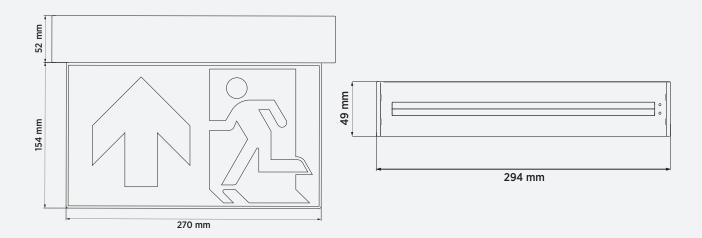


White plastic exit sign luminarie CL-414



Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag,	50.000h 6000k	5-years	294x49x206mm	0°C <ta<45°c< td=""></ta<45°c<>
suspended				

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.



White plastic exit sign luminarie

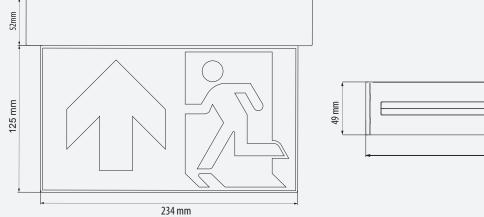
CL-417

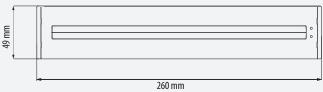


Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag, suspended	50.000h 6000k	5-years	260x49x1 <i>77</i> mm	0°C <ta<45°c< td=""></ta<45°c<>



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 suspension accessories are sold separately.





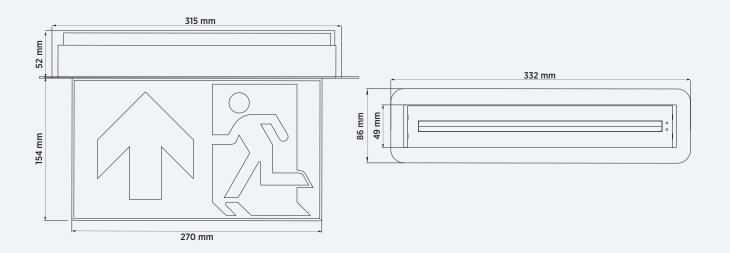
White plastic exit sign luminarie **CL-414C**



Mounting	Light source	Warranty	Size	Temperature
Recessed into	50.000h	5-years	332x86x206mm	0°C <ta<45°c< th=""></ta<45°c<>
ceilina	6000k			



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



White plastic exit sign luminarie

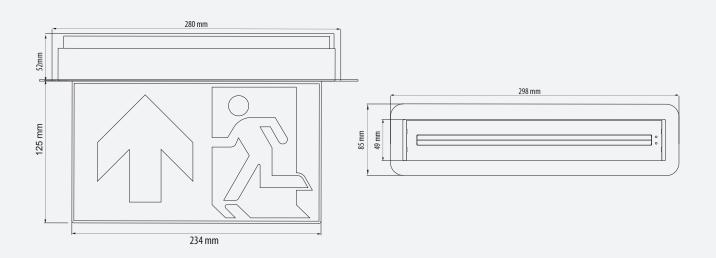
CL-417C



Mounting	Light source	Warranty	Size	Temperature
Recessed into	50.000h	5-years	298x87x179mm	0°C <ta<45°c< th=""></ta<45°c<>
ceilina	4000k			



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



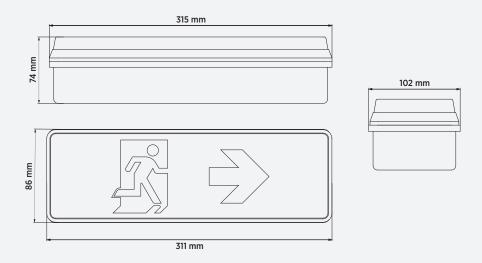
White plastic exit sign luminarie **CL-617**



Mounting	Light source	Warranty	Size	Temperature
Sidewall	50.000h 6000k	5-years	315x102x74mm	0°C <ta<45°c< th=""></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.



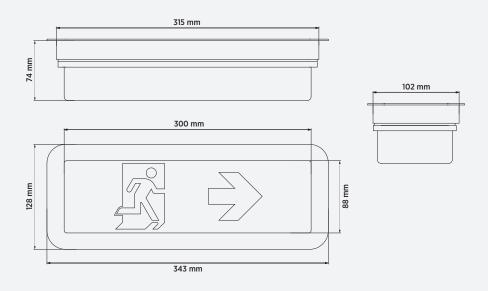
White plastic exit sign luminarie **CL-817**



Mounting	Light source	Warranty	Size	Temperature
Recessed into sidewall	50.000h 6000k	5-years	343x128 x74mm	0°C <ta<45°c< th=""></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.



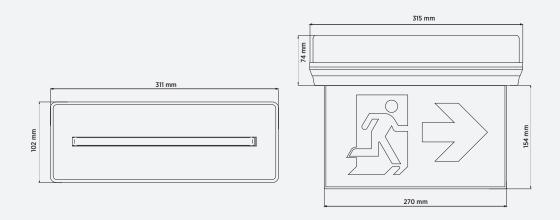
White plastic exit sign luminarie CL-617 PLEXIGLASS



Mounting	Light source	Warranty	Size	Temperature
Ceiling	50.000h 6000k	5-years	315×102×228mm	0°C <ta<45°c< th=""></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

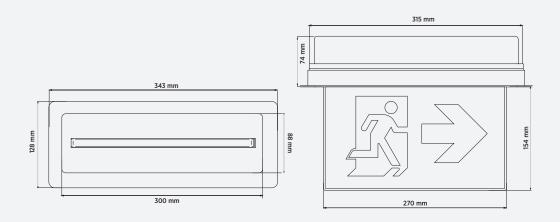
CL-817 PLEXIGLASS



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	343x128 x228mm	0°C <ta<45°c< th=""></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.



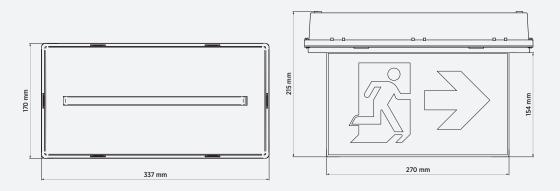
White plastic exit sign luminarie CL-6014



Mounting	Light source	Warranty	Size	Temperature
Ceiling	50.000h 6000k	5-years	337x170x 215mm	0°C <ta<45°c< th=""></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.



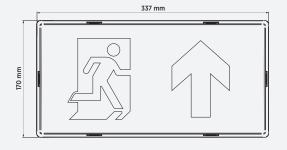
White plastic exit sign luminarie **CL-6017**

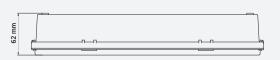


Mounting	Light source	Warranty	Size	Temperature
Sidewall	50.000h	5-years	337x170x62mm	0°C <ta<45°c< th=""></ta<45°c<>



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.



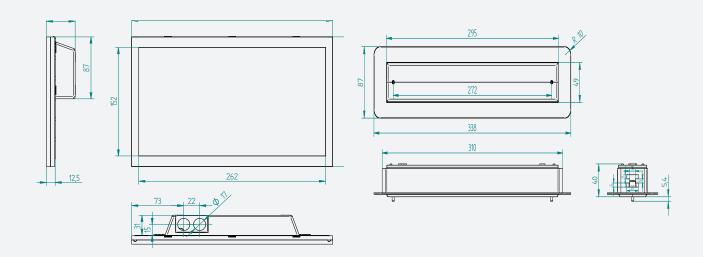


Grey plastic exit sign luminarie **CL-415**



Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, recessed into celiling	50.000h 6000k	5-years	294x49x206mm	0°C <ta<45°c< td=""></ta<45°c<>
one side, recessed into ceiling two side				

The CL-415 is an elegant exit sign with IP42 protection and a 30m viewing distance. One-sided and double-sided design with sidewall-mounted, ceiling-recessed suspended, and ceiling-suspended mounting variations. Pictogram's direction must be marked during the order.



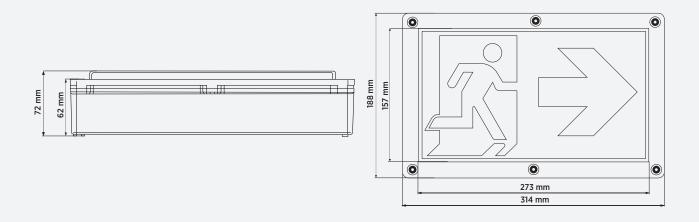
Explosion-proof white plastic exit sign luminarie **CL-8017**



Mounting	Light source	Warranty	Class	Size	Temperature
Sidewall	50.000h	5-years	Zone 2	314x188x72mm	0°C <ta<45°c< th=""></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. Pictogram's direction must be marked during the order.



Metal grey dynamic exit sign luminarie CL-D200



Mounting	Light source	Warranty	Size	Temperature
Sidewall,	50.000h	5-years	362x46x122mm	0°C <ta<45°c< th=""></ta<45°c<>
ceiling,	6000k			
flag	red-green			
9	cross-arrows			



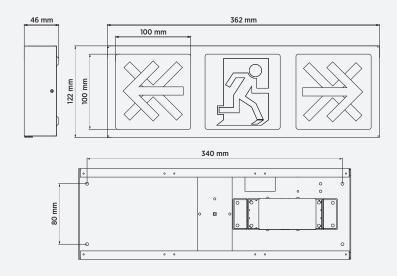




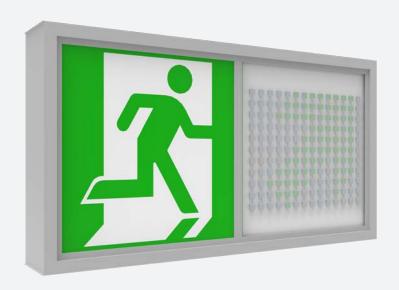




Dynamic LED exit light for sidewall. It is recommended in buildings, where more escape routes are possible. In case of emergency the control panel receives information from the fire alarm centre regarding the location of the fire. Then it informs the light about the right escape route to show.



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< td=""></ta<45°c<>

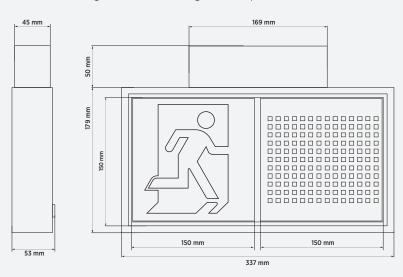








The CL-D300 is a dynamic LED exit light with a ceiling or sidewall-mounted design. It is recommended in buildings where more escape routes are available. In case of an emergency the control panel receives the information from the fire alarm center regarding the location of the fire, then the panel does inform the light about the right escape route to show.



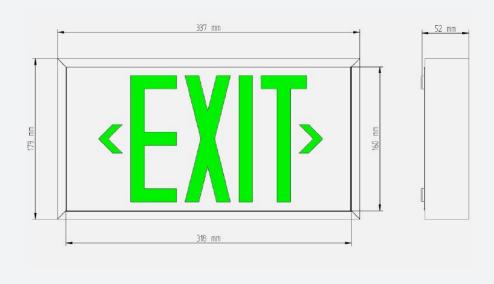
Clever Light®

Metal grey dynamic exit sign luminarie CL-D300 EXIT



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

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 the panel does inform the light about the right escape route to show.



Metal grey exit sign luminarie

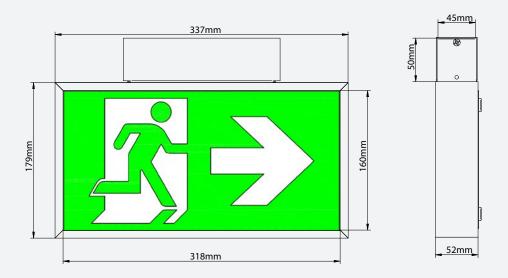
CL-D300 RUNNING MAN



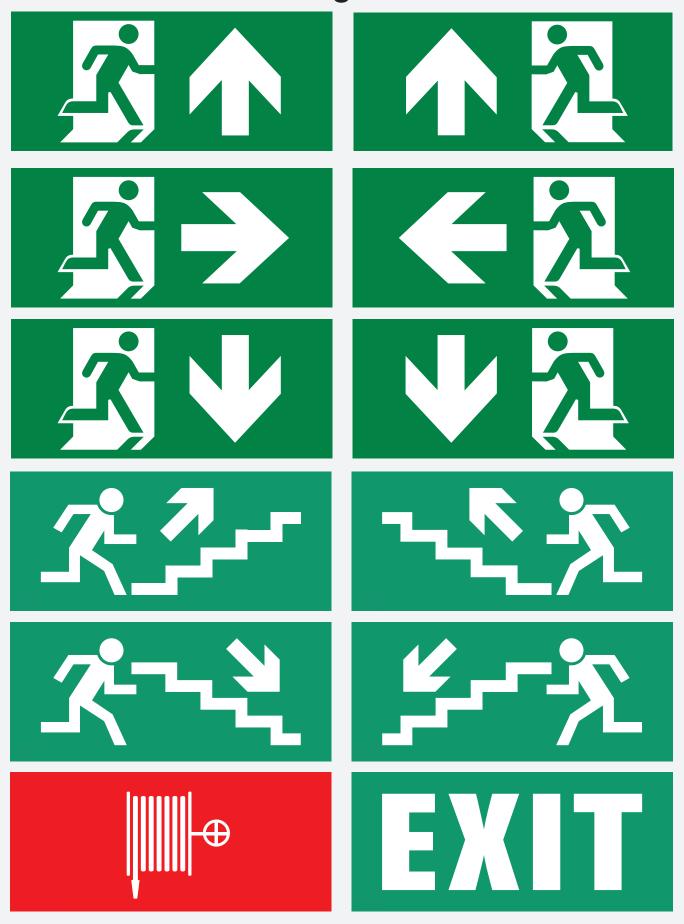
Mounting	Light source	Warranty	Size	Temperature
Sidewall, ceiling one side, ceiling two side, flag one	50.000h 6000k	5-years	337x52x179 or 337x 52x 229mm	0°C <ta<45°c< th=""></ta<45°c<>
side, flag two side				



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.



Pictograms







MERG HEZ CY LUMINAIRES

CL-313 R/F



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Ceiling,	50.000h	261 lm (R),	5-years	136x136x51mm	0°C <ta<45°c< th=""></ta<45°c<>
wall	6000k	329 lm (F)	•		





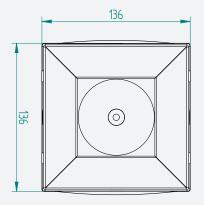




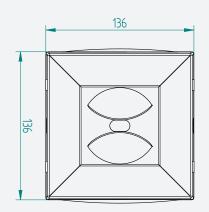


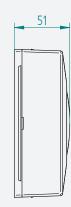


LED safety light for the illumination of escape areas. Suitable for surface mounting. It can be ordered with round LED lens or with lens for corridors according to our customers' needs.

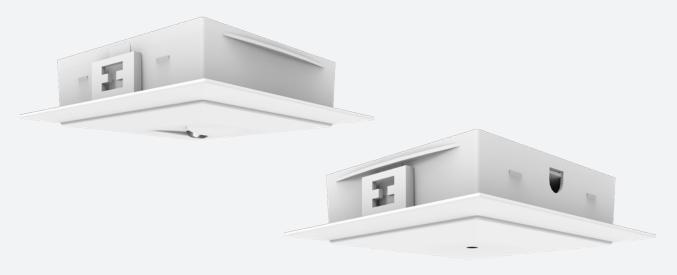








CL-313 C/R and C/F



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Ceiling	50.000h	261 lm (C/R),	5-years	173×173×52mm	0°C <ta<45°c< th=""></ta<45°c<>
recessed	6000k	329 lm (C/F)			

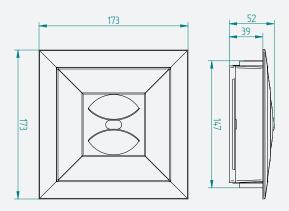


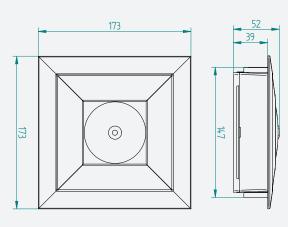






LED safety light for the illumination of escape areas. It can be recessed into the ceiling. It can be ordered with round LED lens or with lens for corridors (C/R or C/F).





CL-4014R



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Recessed into	50.000h	377 lm	5-years	90x69x46mm	0°C <ta<45°c< td=""></ta<45°c<>
ceilina	6000k				



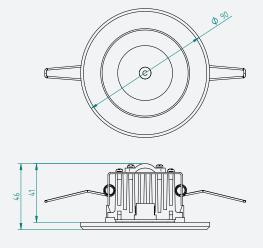


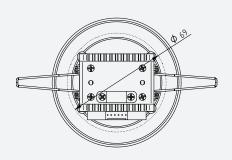






Aesthetic LED safety light for recessing into the ceiling. It is available with round LED lens. It has a great effective range, its practical design makes it easy to install.





CL-4014F



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Recessed into	50.000h	388 lm	5-years	90x69x46mm	0°C <ta<45°c< td=""></ta<45°c<>
ceilina	6000k				



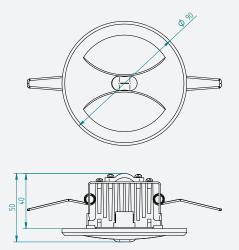


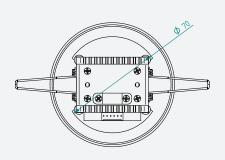






Aesthetic LED safety light for recessing into the ceiling. It is available with lens for corridors. It has a great eff ective range, its practical design makes it easy to install.





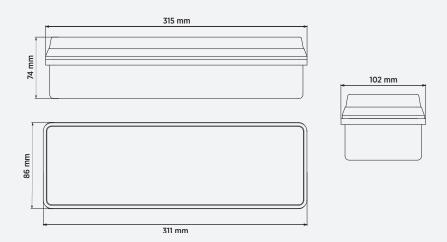
White plastic emergency luminarie **CL-613**



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Sidewall,	50.000h	294 lm	5-years	315x102x74mm	0°C <ta<45°c< td=""></ta<45°c<>
ceilina	6000k				

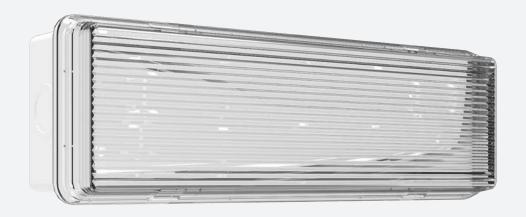


LED safety light with IP54 protection for ceilings or sidewalls. Maintained function with the built-in 1W LED.



White plastic emergency luminarie

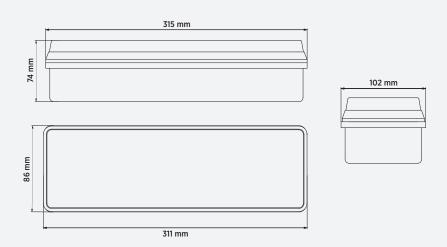
CL-616



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Sidewall,	50.000h	591 lm	5-years	315x102x74mm	0°C <ta<45°c< td=""></ta<45°c<>
ceiling	6000k		·		



LED safety light with IP54 protection for ceilings or sidewalls.

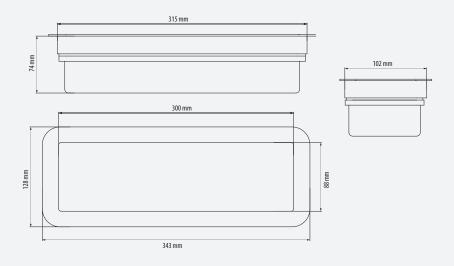


White plastic emergency luminarie **CL-813**



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Ceiling recessed,	50.000h 6000k	251 lm	5-years	343×128×74mm	0°C <ta<45°c< th=""></ta<45°c<>
sidewall recessed					₩

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

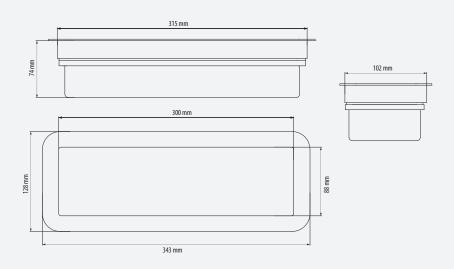


White plastic emergency luminarie CL-816



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Ceiling recessed, sidewall	50.000h 6000k	591 lm	5-years	343x128x74mm	0°C <ta<45°c< td=""></ta<45°c<>
recessed					TE UN LATURATION

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



CL-6016



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Sidewall,	50.000h	604 lm	5-years	337x170x62mm	0°C <ta<45°c< th=""></ta<45°c<>
ceilina	6000k				





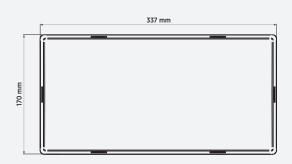




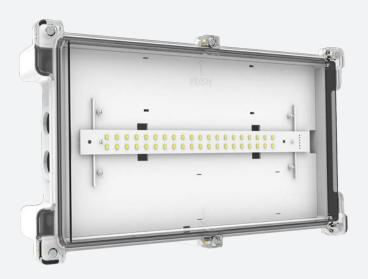


Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.





CL-8016



Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Sidewall,	50.000h	591 lm	5-years	314x188x72mm	0°C <ta<45°c< td=""></ta<45°c<>
ceilina	6000k				



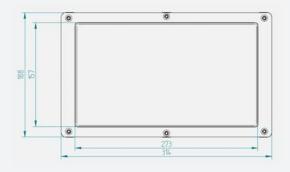








The CL-8016 is an explosion-proof LED emergency light, designed for Zone 2 hazardous areas. Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.





White metal emergency luminarie CL-5013



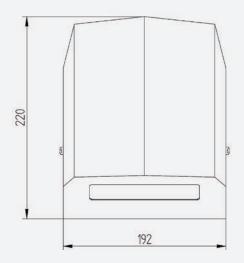
Mounting	Light source	Luminous flex	Warranty	Size	Temperature
Sidewall	50.000h 6000k	314 lm	5-years	192x220x65mm	-25°C <ta<50°c< th=""></ta<50°c<>

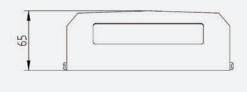






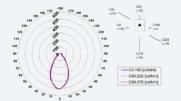
Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.

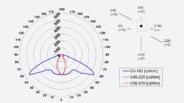


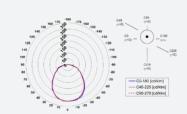




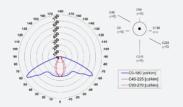
					CL 31	3 R (3	14 lm)				(CL 313	C F (3	29 lm)				CL-40	14R (3	77 lm)	
	Luminaire				Ī									I			-		50			3	
Mou	nting heigh	ht (m)	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
	Transverse	-	6,47	7,4	9,05	10,73	11,49	12,03	9,51	13,12	14,9	18,02	22,53	21,75	15,35	0	10,06	10,73	11,97	13,3	13,77	13,33	0
Escape	mounting	□	2,92	3,27	3,68	4,03	4,15	3,77	0	5,87	6,62	7,77	8,06	4,66	1,84	0	4,13	4,35	4,75	5,01	4,51	2,63	0
route min 1 lux	Axial	[5,81	5,77	7,12	9,55	10,84	11,69	9,36	5,99	<i>5,7</i> 1	4,77	6,18	6,9	6,63	0	10,03	10,74	11,97	13,24	13,72	13,23	0
	mounting	∄[]	2,34	2,69	3,31	3,95	4,23	3,96	0	1,51	1, <i>7</i> 3	2,13	2,49	2,18	0,68	0	4,11	4,32	4,76	4,89	4,36	2,28	0
	Transverse	0.51	6,79	8,18	10,01	13,25	14,88	15,83	17,28	14,56	16,59	20,31	26,53	31,02	31,86	19,89	12,52	13,45	14,8	17,24	18,63	19,35	18,25
Open (anti-	mounting	0.5L 7	3,01	3,63	4,48	5,33	5,65	5,89	4,95	6,6	7,48	9,03	11,32	12,23	7,71	0	5,08	5,45	6,08	6,8	7,08	6,92	0
panic) area min 0.5 lux	Axial	0.51	6,45	7,76	7,82	10,6	13,07	14,56	16,73	7,93	8,52	8,26	6,9	8,44	9,45	8,81	12,73	13,52	14,79	17,22	18,57	19,27	18,1
	mounting	0.5L	2,41	2,9	3,65	4,83	5,5	5,89	5,36	3	2,93	2,36	3,15	3,5	3,4	0	5,04	5,42	6,04	6,67	6,92	6,72	0

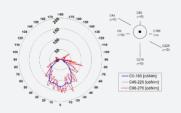


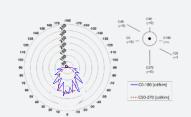




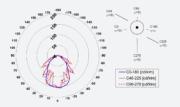
					CL-40	14F (3	88 lm)				CL-6	13 (29	4 lm)			CL-616 (591 lm)								
	Luminaire									ĺ															
Мо	unting heigh	t (m)	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15		
	Transverse	-	14,18	16,02	19,08	23,91	24,74	18,34	4,61	7,43	8,38	9,71	10,58	10,68	8,29	0	9,71	10,48	11,55	13,29	14,17	14,84	0		
Escape	mounting	□ → tti	6,29	6,99	8,25	8,38	5,55	3,62	0	3,27	3,55	3,73	3,8	2,07	0	0	3,92	4,23	4,52	5,08	5,17	4,66	0		
route min 1 lux	Axial	[]←→[]	5,8	5,48	4,84	6,44	7,35	7,4	1,83	9,37	10,09	11,19	11,56	10,27	6,18	0	11,43	12,8	14,81	13,91	16,46	15,74	0		
	mounting	∄[]	1,6	1,72	2,13	2,53	2,45	1,5	0	4,14	4,52	3,78	2,99	1,65	0	0	4,9	5,4	4,78	5,96	4,7	2,76	0		
	Transverse	0.51	15,98	17,92	21,87	27,98	32,96	36,23	23,87	8,52	9,52	11,46	14,03	14,76	15,04	9,75	10,41	12,3	14,24	17,01	18,16	19,34	20,87		
Open (anti-	mounting	0.5L 7	7,15	8,07	9,59	11,99	13	8,88	3,24	3,75	4,23	4,91	5,37	5,4	4,99	0	4,38	5,24	5,77	6,64	7,08	7,42	5,85		
panic) area min 0.5 lux	Axial	0.51	8,46	8,49	7,79	7,19	8,79	9,93	10,35	10,87	12,13	14,41	16,3	15,86	15,34	5,66	12,22	14,58	17,51	21,29	19,12	21,52	19,24		
	mounting	0.5L	2,9	2,77	2,35	3,15	3,55	3,68	1,34	4,55	5,26	6,23	5,56	4,28	2,51	0	5,37	6,4	7,4	6,95	8,23	8,97	3,7		

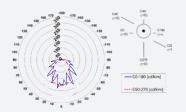




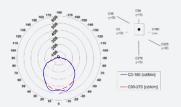


					CL-8	313 (251	l lm)					CL-8	316 (59	l lm)		
	Luminaire	,				100							100			
Моц	unting heig	ht (m)	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
	Transverse		7,28	8,18	9,58	10,37	10,53	10,44	0	9,71	10,48	11,55	13,29	14,17	14,84	0
Escape route min	e min		3,17	3,47	3,6	3, <i>7</i> 1	3,38	0	0	3,92	4,23	4,52	5,08	5,17	4,66	0
1 lux	Axial		9,29	10,44	11,61	11,47	9,39	5,58	0	11,43	12,8	14,81	13,91	16,46	15,74	0
	mounting	∄[]	4,16	3,53	4,11	3,65	2,26	0	0	4,9	5,4	4,78	5,96	4,7	2,76	0
	Transverse	0.51	8,44	9,37	11,22	11,88	14,37	14,99	12,65	10,41	12,3	14,24	17,01	18,16	19,34	20,87
Open (anti-	Transverse mounting	0.5L ▼	3,66	4,11	4,8	5,2	5,32	5,28	0	4,38	5,24	5,77	6,64	7,08	7,42	5,85
panic) area min 0.5 lux	Axial	0.51	10,5	11,97	14,27	16,44	15,72	15,72	7,7	12,22	14,58	17,51	21,29	19,12	21,52	19,24
	mounting	0.5L	4,87	5,39	4,87	6,09	5,08	3,19	0	5,37	6,4	7,4	6,95	8,23	8,97	3,7

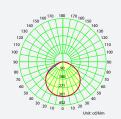




					CL-6	016 (60	4 lm)					CL-8	016 (59)1 lm)			CL-5013 (314 lm)							
	Luminaire	•				++								: 1										
Mou	inting heig	ht (m)	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	9		
	Transverse		9, <i>7</i> 1	10,48	11,55	13,29	14,17	14,84	0	9,71	10,48	11,55	13,29	14,17	14,84	0	3,813	4,15	4,31	4,35	4,39	3,75		
Escape	mounting		3,92	4,23	4,52	5,08	5,17	4,66	0	3,92	4,23	4,52	5,08	5,17	4,66	0	7,625	7,75	8,05	8,12	8,24	7,5		
1 lux	Axial	[]←→[]	11,43	12,8	14,81	13,91	16,46	15,74	0	11,43	12,8	14,81	13,91	16,46	15,74	0								
	mounting	∄[]	4,9	5,4	4,78	5,96	4,7	2,76	0	4,9	5,4	4,78	5,96	4,7	2,76	0								
	Transverse	0.51	10,41	12,3	14,24	17,01	18,16	19,34	20,87	10,41	12,3	14,24	17,01	18,16	19,34	20,87	,							
Open (anti-	mounting	0.5L 7	4,38	5,24	5,77	6,64	7,08	7,42	5,85	4,38	5,24	5,77	6,64	7,08	7,42	5,85								
panic) area min 0.5 lux	Axial	0.51	12,22	14,58	17,51	21,29	19,12	21,52	19,24	12,22	14,58	17,51	21,29	19,12	21,52	19,24								
	mounting	0.5L	5,37	6,4	7,4	6,95	8,23	8,97	3,7	5,37	6,4	7,4	6,95	8,23	8,97	3,7								







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