



EML[®]

2025

Emergency Lighting Solution

INTRODUCTION	4
Production.....	5
References	6
ADDRESSABLE SYSTEMS	11
CBS 230 AC/DC control panel.....	12
Change-over modules, battery charger and battery monitor.....	13
EML-3 AC IN control module.....	15
EML-AM AC/DC address module.....	16
EML-AM AC/DC address module dali.....	17
EML-10 AC IN control module.....	18
EML-10 POT IN control module.....	19
EML 601-606 control panel	20
EML-AC 230 control module	21
EML-AM/CB address module	22
CPS-Central power supply	25
EML 100-400 control panel	26
EML-AM/MB address module	29
EML 800 SCM panel.....	30
EML 100/RF wireless control panel.....	32
EML 24V CB control panel	30
EML 24V Con CB control panel	34
Software	36
EXIT SIGN LUMINAIRES.....	41
EML-014	42
EML-9017.....	43
EML-414	44
EML-417	45
EML-414C	46
EML-417C	47

EML-617	48
EML-817.....	49
EML-617 plexiglass.....	50
EML-817 plexiglass.....	51
EML-6014	52
EML-6017	53
EML-415	54
EML-8017	55
EML-D200.....	56
EML-D300.....	57
EML-D300 EXIT	58
EML-D300 Running man.....	59
Pictograms	60
EMERGENCY LUMINAIRES.....	63
EML-313 R/F	64
EML-313 C/R and C/F.....	65
EML-4014R	66
EML-4014F.....	67
EML-613	68
EML-616	69
EML-813.....	70
EML-816	71
EML-6016	72
EML-8016.....	73
EML-5013.....	74
LUX.....	76

EML LIGHTING 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 EML 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.

EML 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 EML Control Panels.

Choose EML 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.

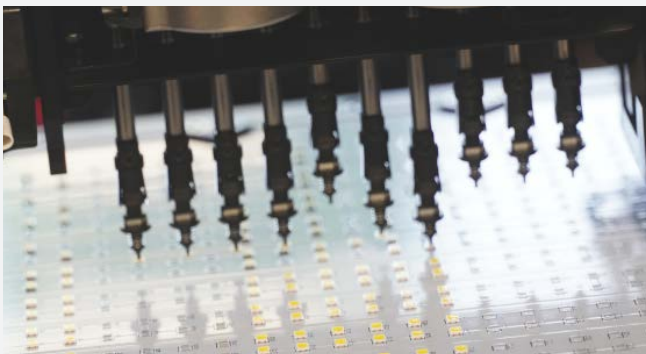
Our products are renowned not only in Hungary but also in international markets. We proudly serve partners in the UAE, Qatar, Saudi Arabia, Israel, and numerous countries across the Middle East, North Africa, Sri Lanka, and nearly every European Union country. Choose our addressable systems for unparalleled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



Production

The EML intelligent emergency systems are designed and produced by EML LIGHTING 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.





Hungary Pavilion, Expo2020 Dubai



Serbia Pavilion, Expo2020 Dubai



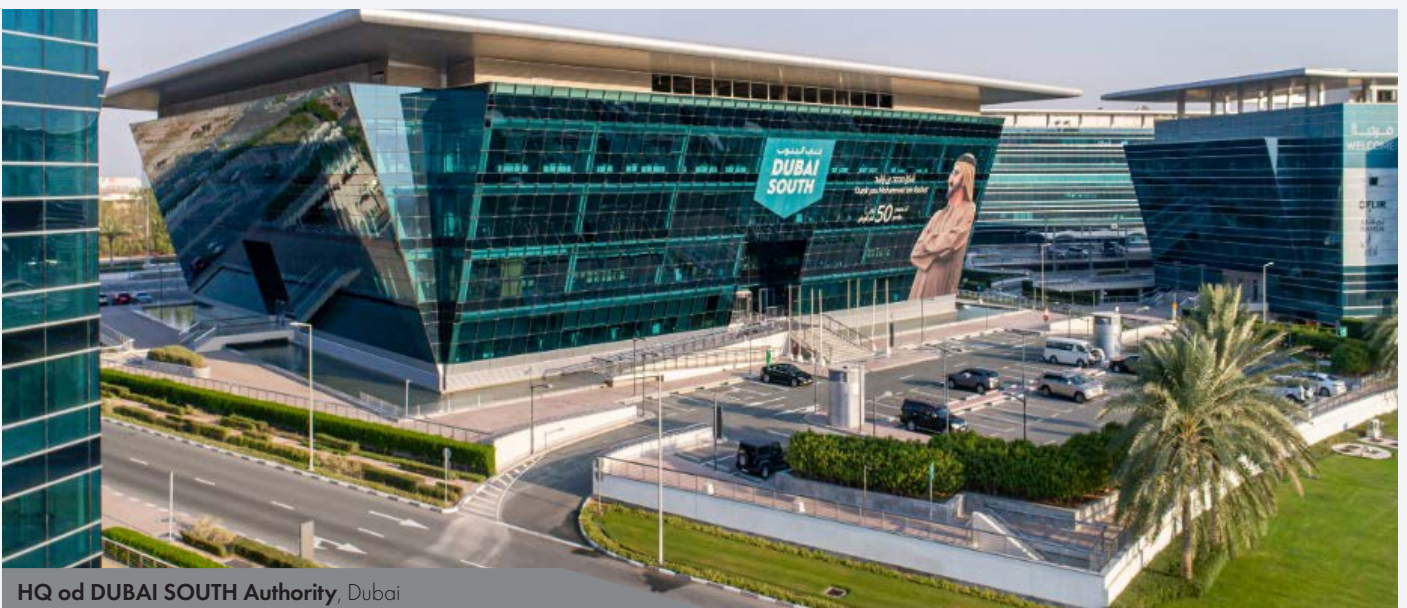
Iraq Pavilion, Expo2020 Dubai



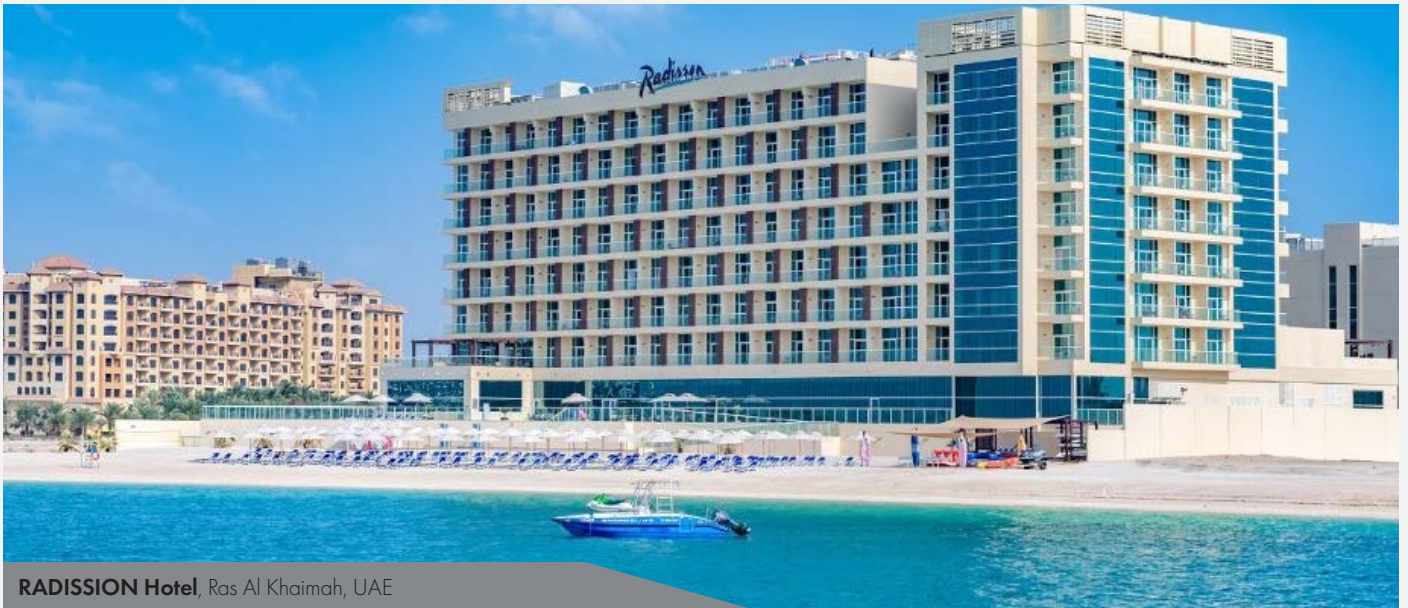
The Opportunity Pavilion, Expo2020 Dubai



Dubai Dry Docks, Dubai



HQ of DUBAI SOUTH Authority, Dubai



RADISSON Hotel, Ras Al Khaimah, UAE



MYRIAD Student Accommodation Buildings, Dubai



Al Mamsha Residential Complex, Sharjah, UAE



Pearl Wisdom School, UAE



Commercial Buildings, Al Mamsha, Sharjah



3 Commercial and Residential buildings, Dubai



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: 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: EML-LD-A 4x1.5A, EML-LD-A 2x3A, EML-LD-A 1x6A

Battery charger module: EML-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

EML 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

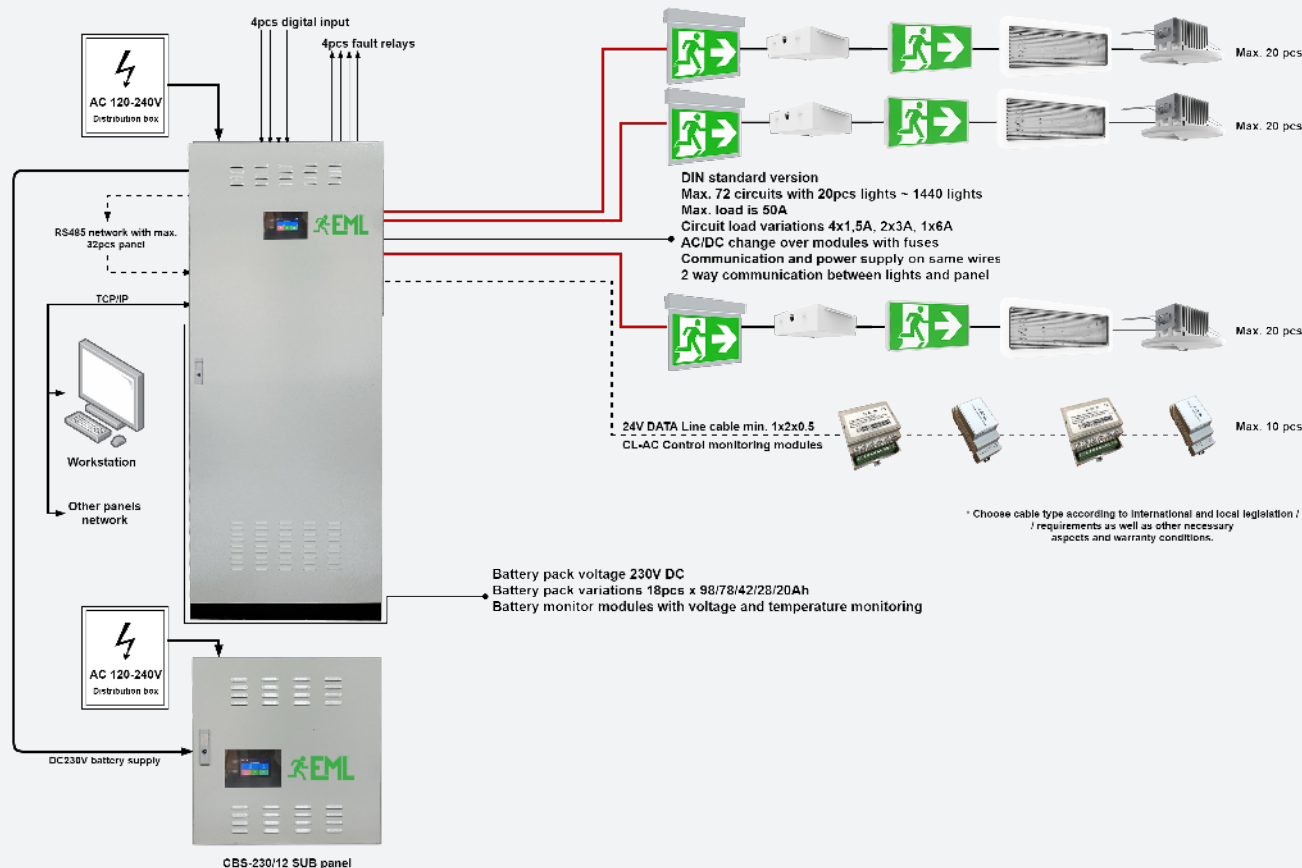
10 pcs phase monitor modules for monitoring lighting distributors (EML-3AC IN, EML-10AC IN, EML-10POT IN) with 24V DATA line communication (max load 500mA, max length 300m)

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 < T_a < 25°C

Warranty: 5-years repair warranty



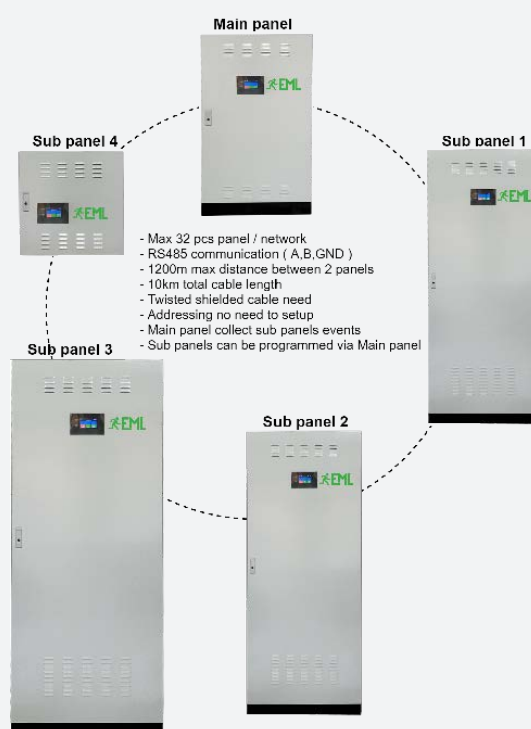
PANEL TYPE	CBS-230-72			CBS-230-44		CBS-230-24			CBS-230-12	CBS-230-12/SUB
INPUT VOLTAGE	120-240 AC									
OUTPUT VOLTAGE	120-240 AC standby mode, 230V DC emergency mode									
MAX INPUT CURRENT	50A			50A		50A			15A	15A
NUMBER OF BATTERIES	18pcs									-
BATTERIES CAPACITY	*98Ah	78Ah	42Ah	42Ah	28Ah	98Ah	78Ah	42Ah	20Ah	-
MAX LOAD 1 HOUR	50A	40A	20A	20A	15A	50A	40A	20A	11A	-
MAX LOAD 3 HOUR	25A	20A	9A	9A	7A	25A	20A	9A	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	EML-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

TCP/IP network



RS485 network



Change-over modules, battery charger and battery monitor

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

EML-LD-A 4x1,5A



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

EML-LD-A 2x3A



AC voltage range:	120V-240V 50/60Hz
DC voltage range:	176V-255V
Number of circuit:	1
Current limit for circuit:	6A
Max. connected number of lights:	30

EML-LD-A 1x6A



The EML-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

EML-BC-4A



The EML-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.



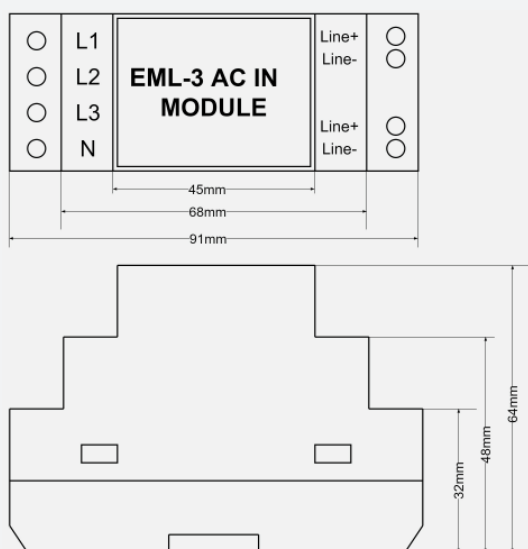
EML-3 AC IN control module

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 EML AC/DC control panels
 Monitored input voltage AC 110-230V
 Current consumption: 35mA
 Rated power: 0,85W

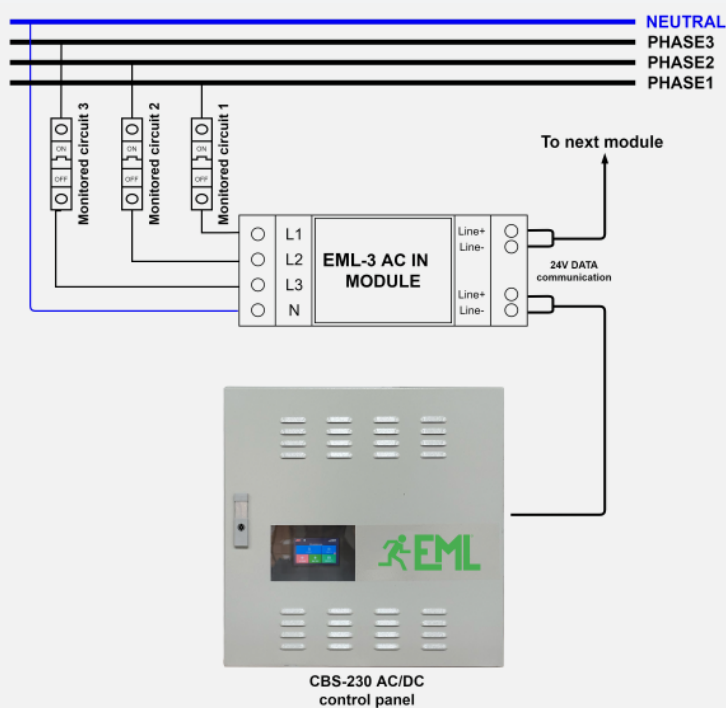


The EML-3AC IN voltage monitor input module is suitable for monitoring 3 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data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

DIMENSIONS



SCHEMATIC DIAGRAM



EML-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

Switching 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 < T_a < 45°C

Protection: IP20

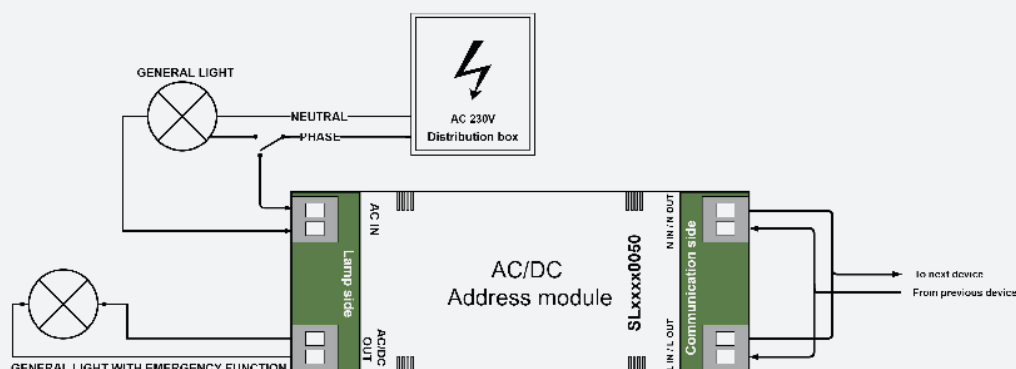
Certification: CE, UL

Warranty: 5 years repair warranty

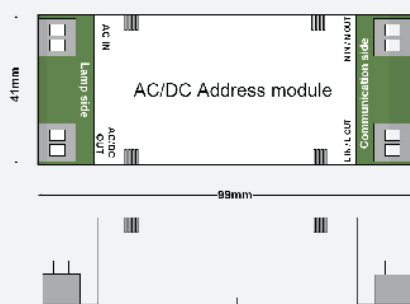


The module enables addressable control of 3rd-party lights in AC/DC systems with CBS-230 panels. It supports automatic addressing via a unique factory ID and operates with connected light loads from 3W to 100W. It mounts with bolts in light cabinets or junction boxes and features external phase input 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.

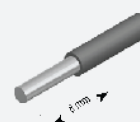
SCHEMATIC DIAGRAM



DIMENSIONS



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



EML-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 < T_a < 45°C

Protection: IP20

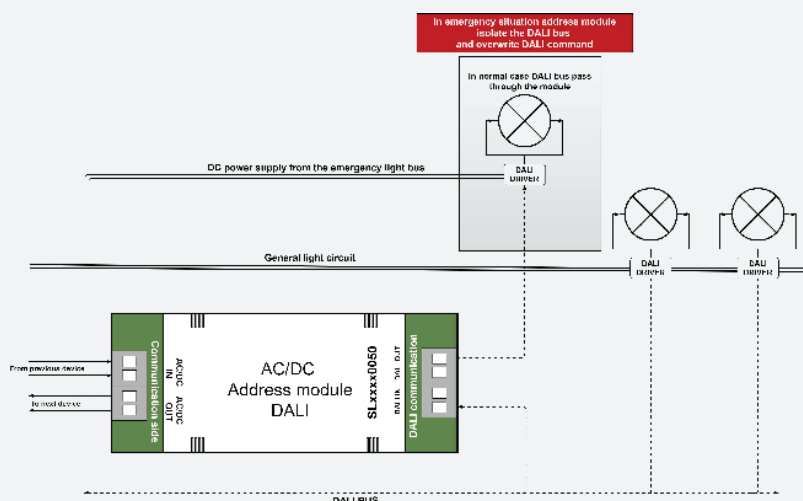
Certification: CE, UL

Warranty: 5 years repair warranty

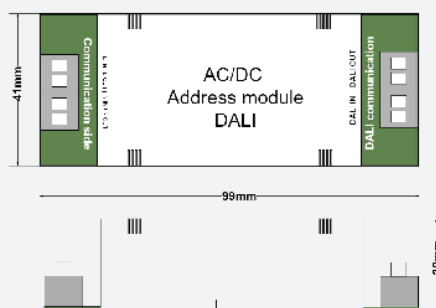


The DALI-3AC communication module enables addressable control of 3rd-party lights with CBS-230 panels. It supports automatic addressing via a unique factory ID and isolated DALI bus output. It mounts with bolts in light cabinets or junction boxes and connects via DALI bus without address reservation. 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.

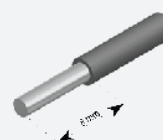
SCHEMATIC DIAGRAM



DIMENSIONS



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



EML-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 EML AC/DC control panels

Monitored input voltage AC 110-230V

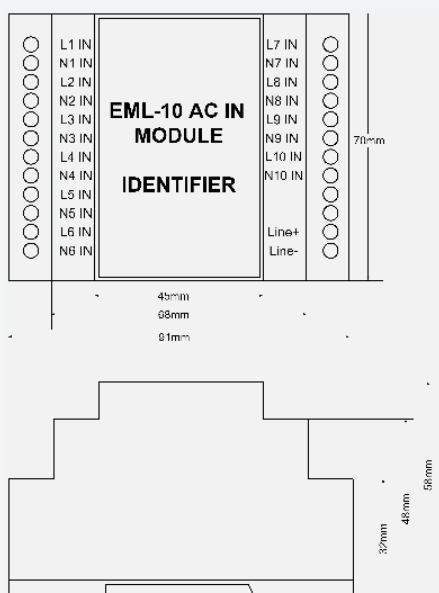
Current consumption: 35mA

Rated power: 0,85W

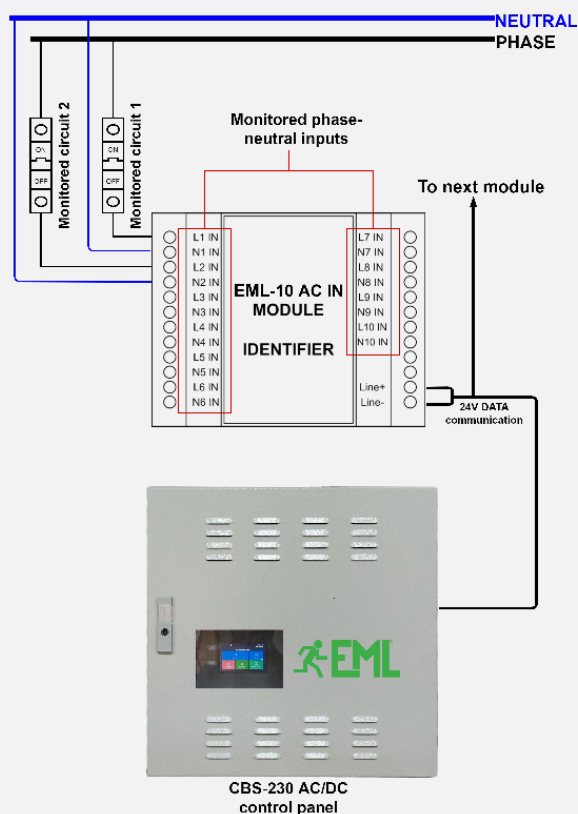


The EML-10 AC IN voltage monitor input module is suitable for monitoring 10 normal lighting circuits in building distribution cabinets. In case of monitored phase loss, it's activated and send signal to master panel. Each input change can control 3 different lamp groups and 1 fire group. Power and data communication signal are in the same 2 core wire.

DIMENSIONS



SCHEMATIC DIAGRAM



EML-10 POT IN control module

Snap 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 EML AC/DC control panels

Current consumption: 35mA

Rated power: 0,85W

The EML-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

19

EML 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

EML 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

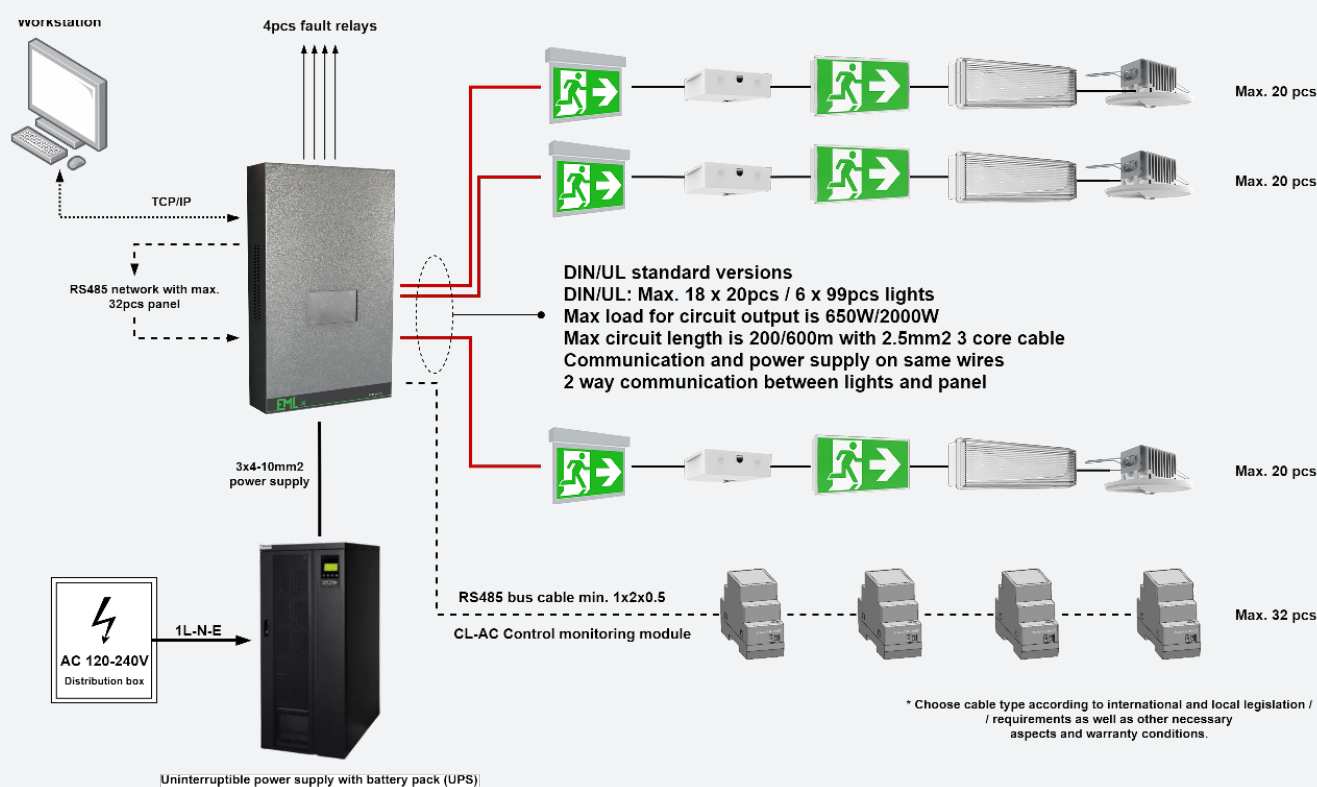
Dimensions: 650mm x 403mm x 110mm

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

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

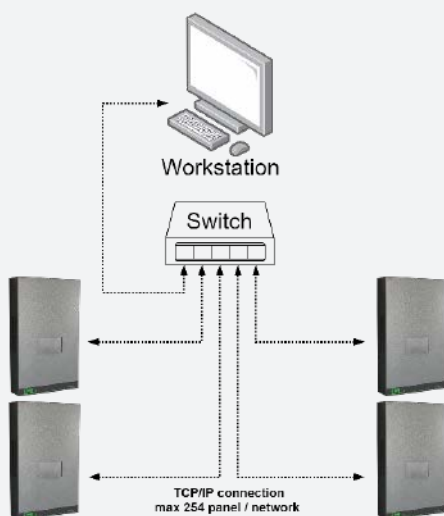
Max. input current: 601 - 6A, 602 - 12A, 603 - 18A, 604 - 24A, 605 - 30A, 606 - 36A

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

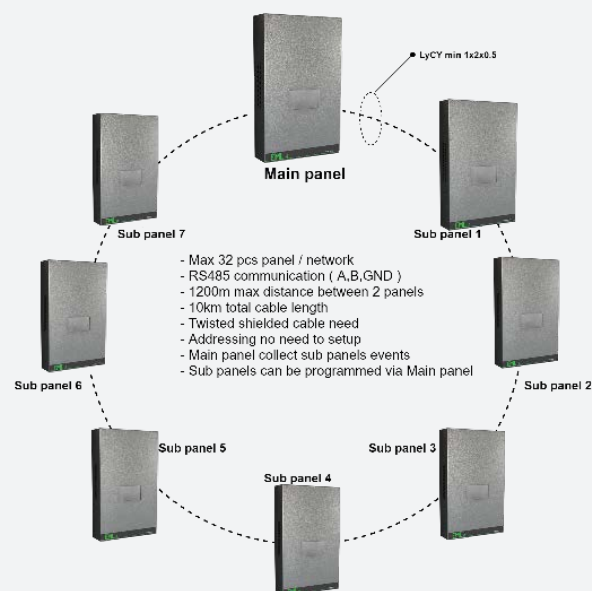


Network variations

TCP/IP network



RS485 network



PANEL TYPE	EML-601	EML-602	EML-603	EML-604	EML-605	EML-606
INPUT VOLTAGE	120-140 AC					
OUTPUT VOLTAGE	120-140 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 EML-AC control modules on RS485 bus cable					
DISPLAY	7" LCD					
SOFTWARE	EML-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					

EML-AC 230 control module

Snap 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 EML 100-400 , EML 100 RF/MB, EML 601-606 and EML24V

CB control panels

Input voltage AC 110-230V

Current consumption: 11mA

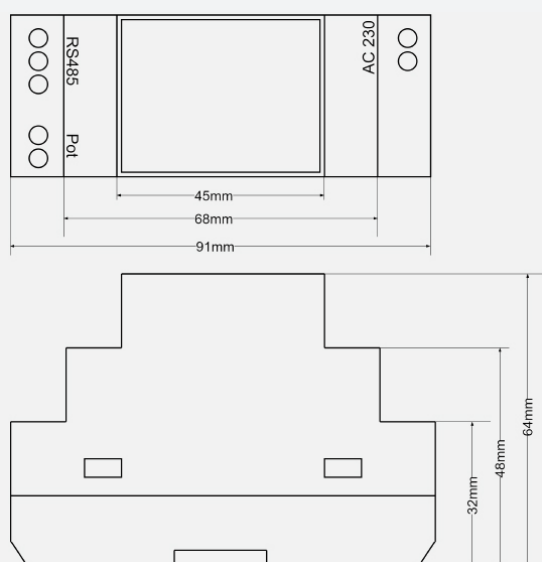
Rated power: 2.5VA

Battery: 6V 80mAh

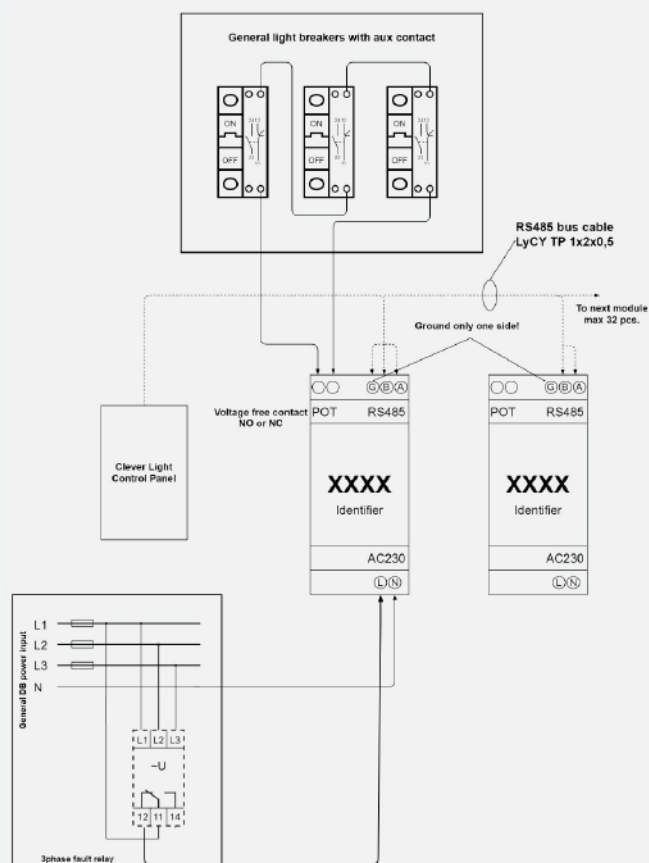


The **EML-AC230** voltage monitor input module is suitable for monitoring normal lighting circuits in building distribution cabinets. In case of monitored phase loss or change of the potential-free input it's activated and send signal to master panel. It can control 3 different lamp groups and 1 fire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

DIMENSIONS



SCHEMATIC DIAGRAM



EML-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

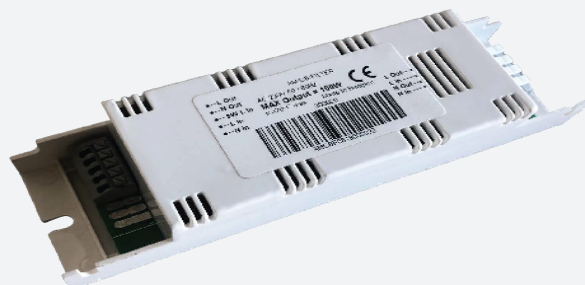
Switching time: <500ms

Mains supply: AC/DC 120-240V 50-60Hz

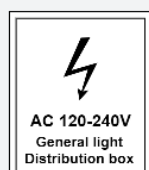
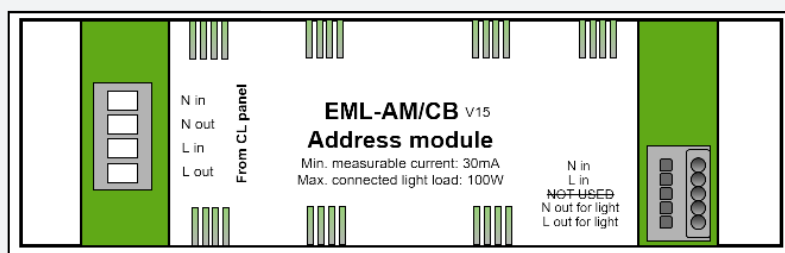
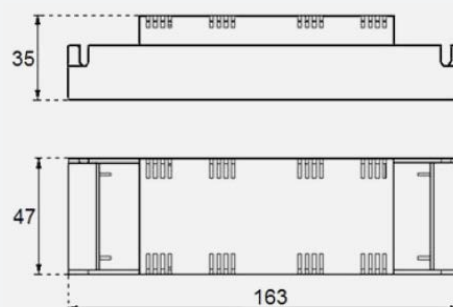
Input current: 11 mA

Rated power: 3 VA

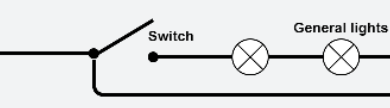
Constant nominal ambient temperature range: 0°C < T_a < 45°C



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.



L from DB
N from DB



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.

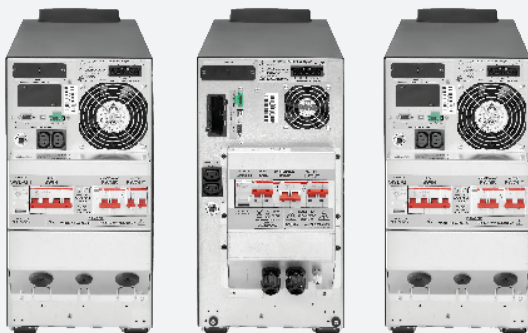


Power:

1/3/5/8/10 kW

Running time:

1-3 hours



EML 100-400 control panel

Type: Addressable control panel for self-contained battery lights

Variations: EML100, EML200, EML300, EML400

Light addressing: Automatic, based on factory unique identification number

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

Output:

EML100 - 1 output with 99 devices,

EML200 - 2 outputs with 198 devices,

EML300 - 3 outputs with 297 devices,

EML400 - 4 outputs with 396 devices.

EML 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

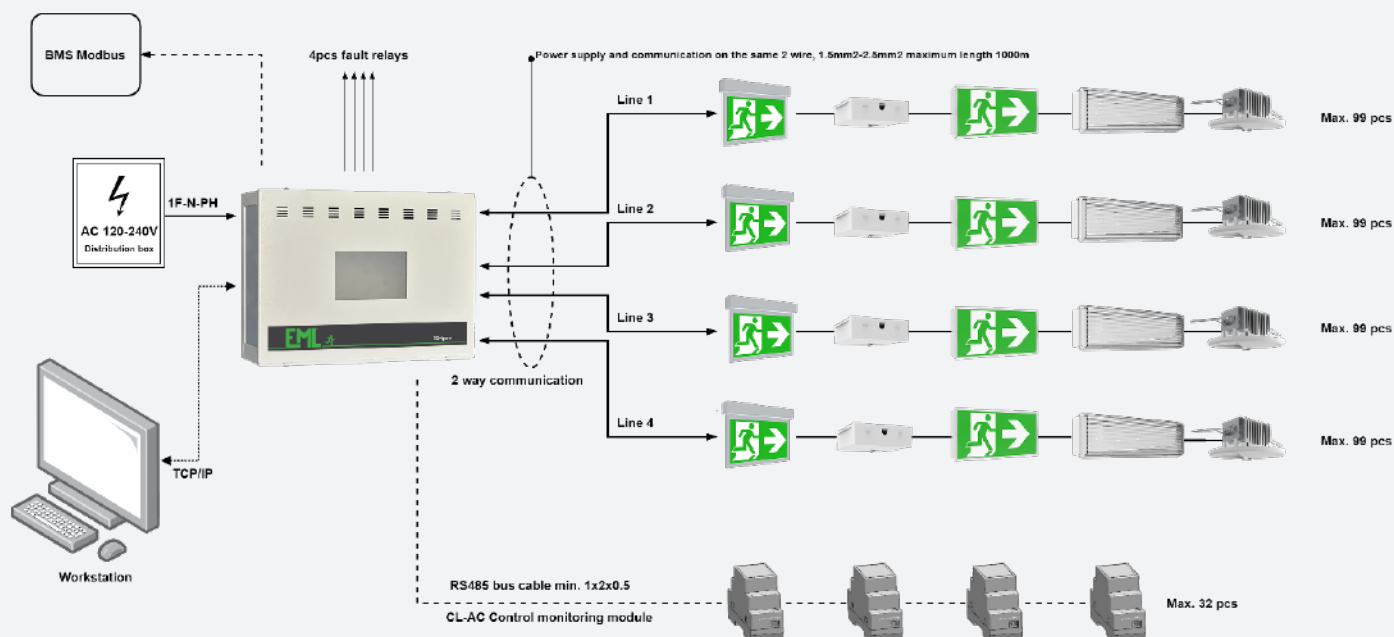
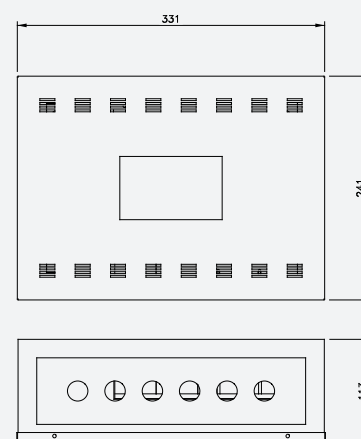
Cable connection: Max. 2.5mm² cross-section solid or sleeved twisted wire

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

Max. input current: 12A

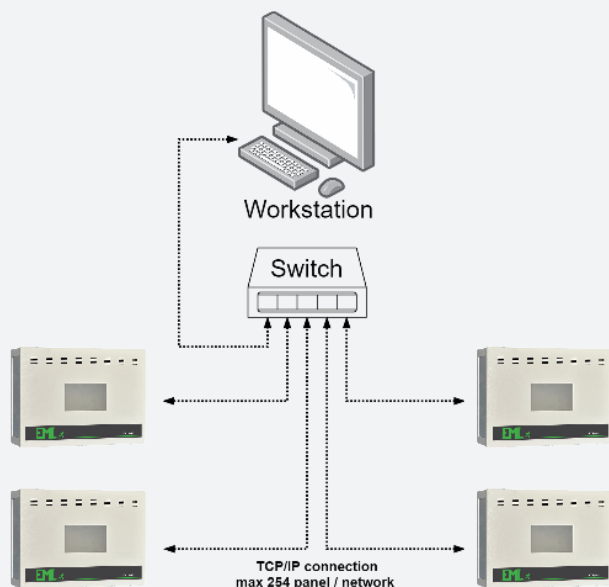
Output voltage: AC 120-240V 50/60Hz with communication signal

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

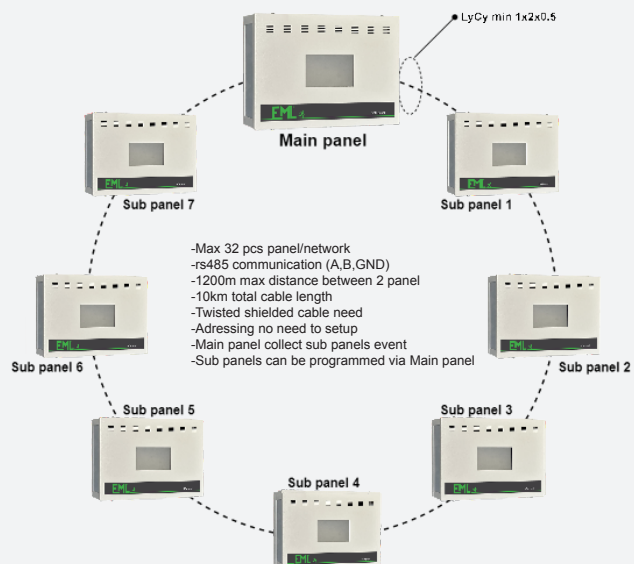


Network variations

TCP/IP network



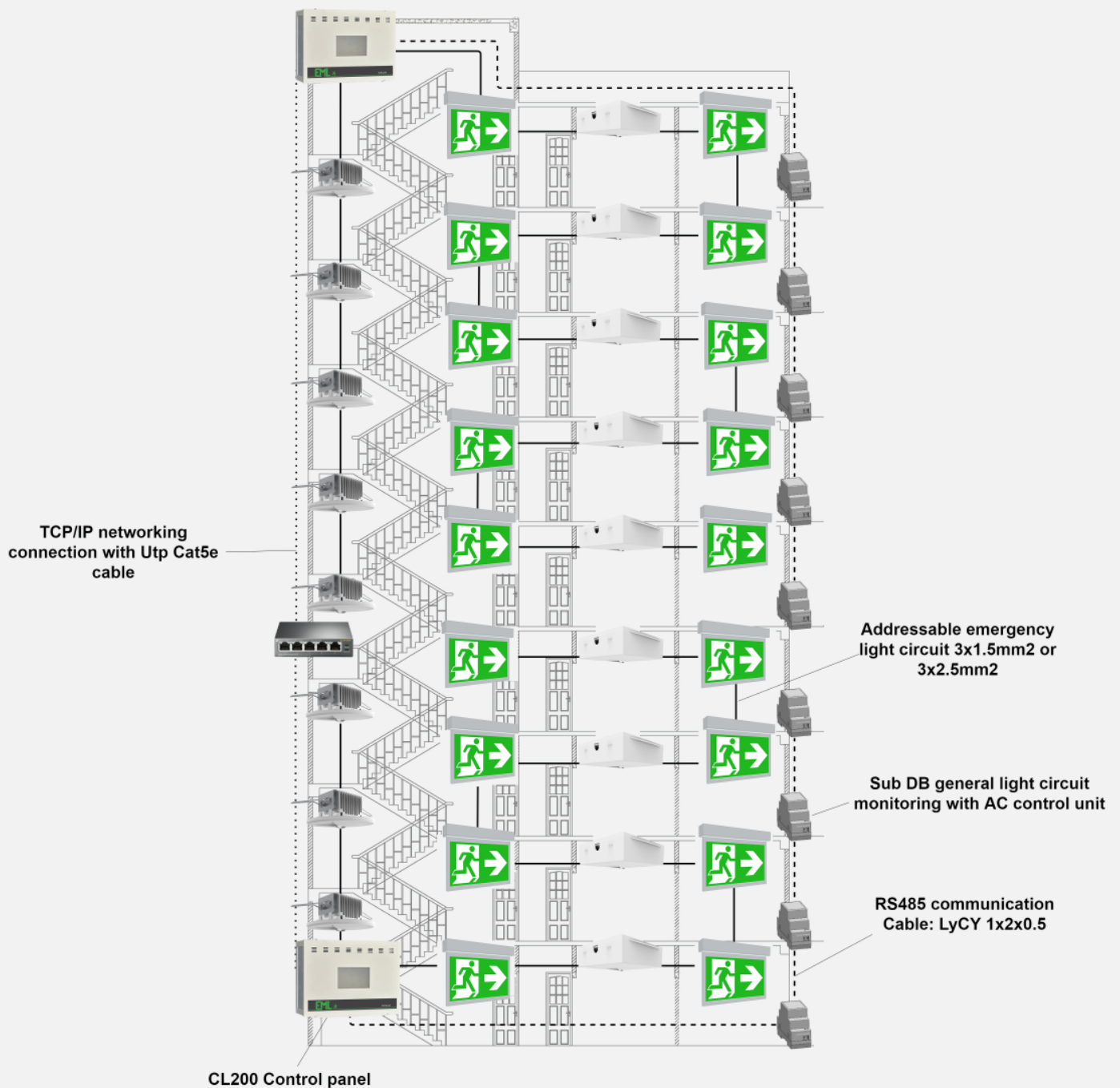
RS485 network



PANEL TYPE	EML-100	EML-200	EML-300	EML-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 EML-AC control modules on RS485 bus cable			
DISPLAY	5" LCD			
SOFTWARE	EML-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			

Network system example, multiple group control

In case of short circuit the EML-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.



EML-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

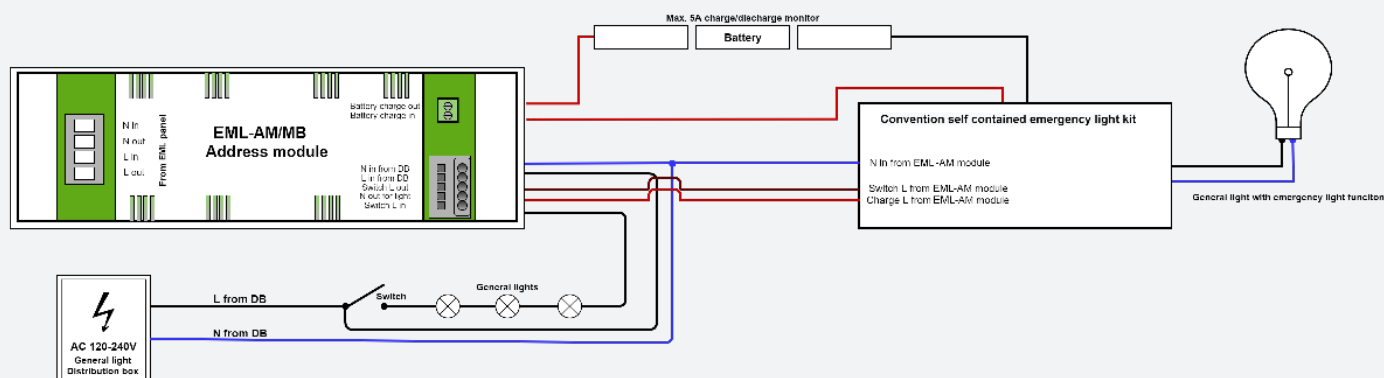
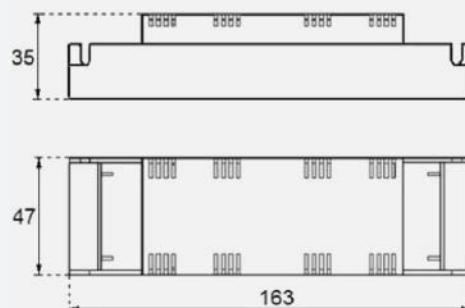
Input current: 11 mA

Rated power: 3 VA

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

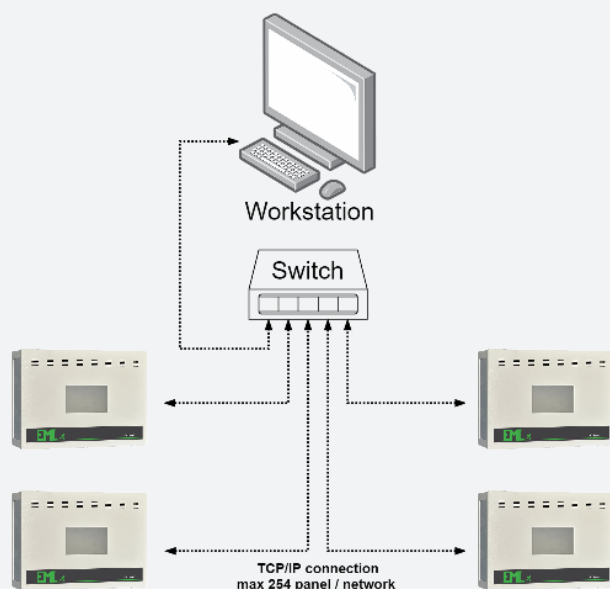


The module automatically switches the lamp to emergency mode when the monitored phase is lost. This supervised input must be connected, because the light battery charger is supply from there. In order to observe the battery charge and the status of the lamp, the positive wire of the battery must be passed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

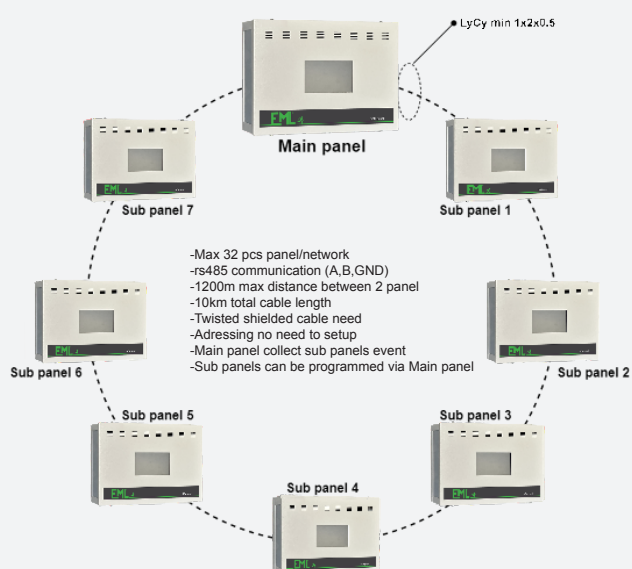


Network variations

TCP/IP network



RS485 network



PANEL TYPE	EML-800/1	EML-800/2	EML-800/3	EML-800/4
INPUT VOLTAGE	120-240 AC			
OUTPUT VOLTAGE	24V			
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 EML-AC control modules on RS485 bus cable			
DISPLAY	5" LCD			
SOFTWARE	EML-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			

EML-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

EML 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

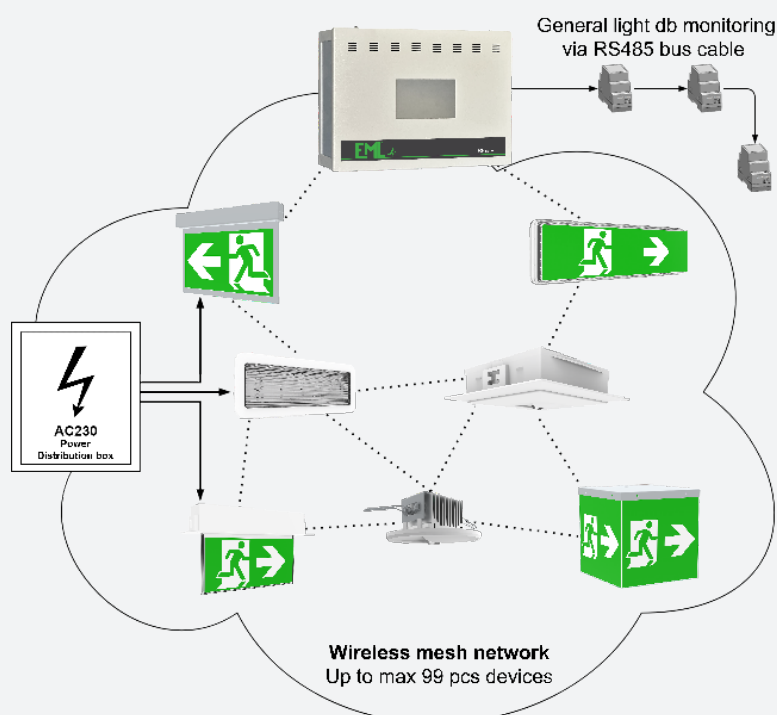
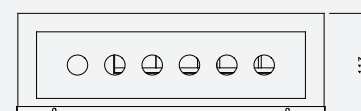
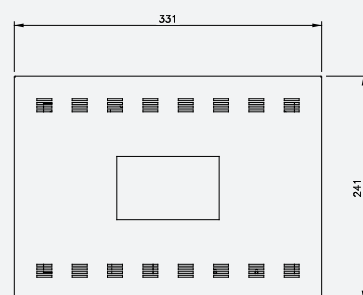
Dimensions: 331mm x 241mm x 113mm

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

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

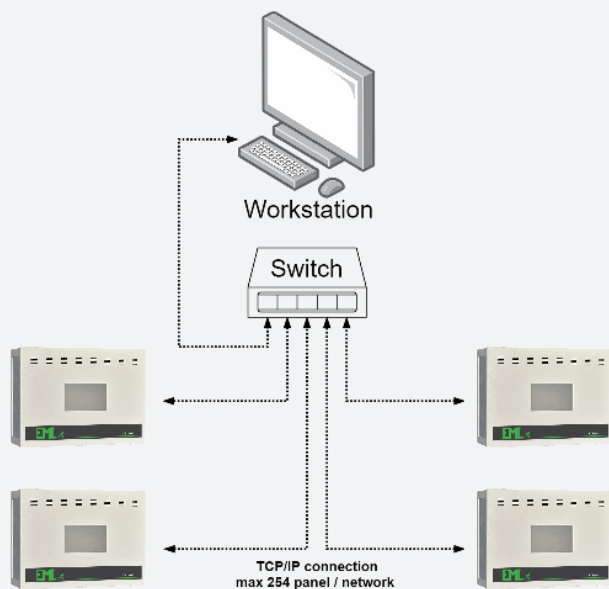
Max. input current: 0,2A

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

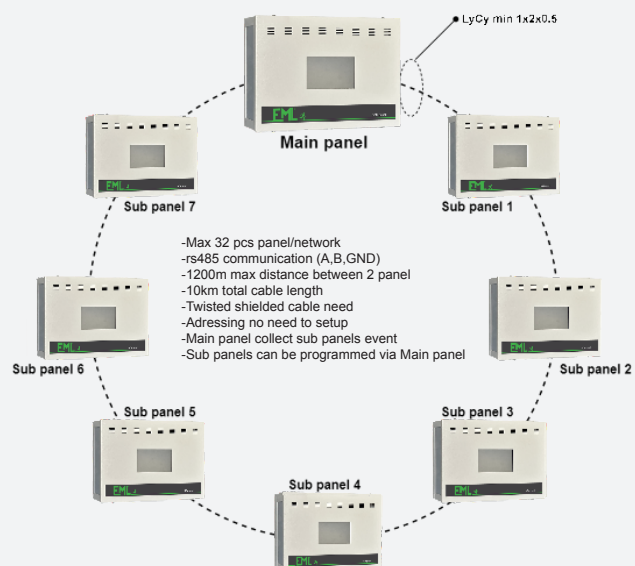


Network variations

TCP/IP network



RS485 network



PANEL TYPE	EML-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 EML-AC control modules on RS485 bus cable
DISPLAY	5" LCD
SOFTWARE	EML-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

EML-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

EML 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

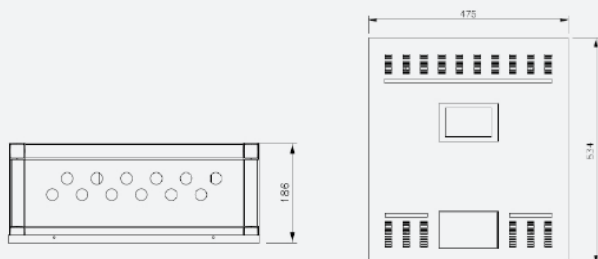
Mains voltage: AC 120-240V 50/60Hz

Max. input current: 2A

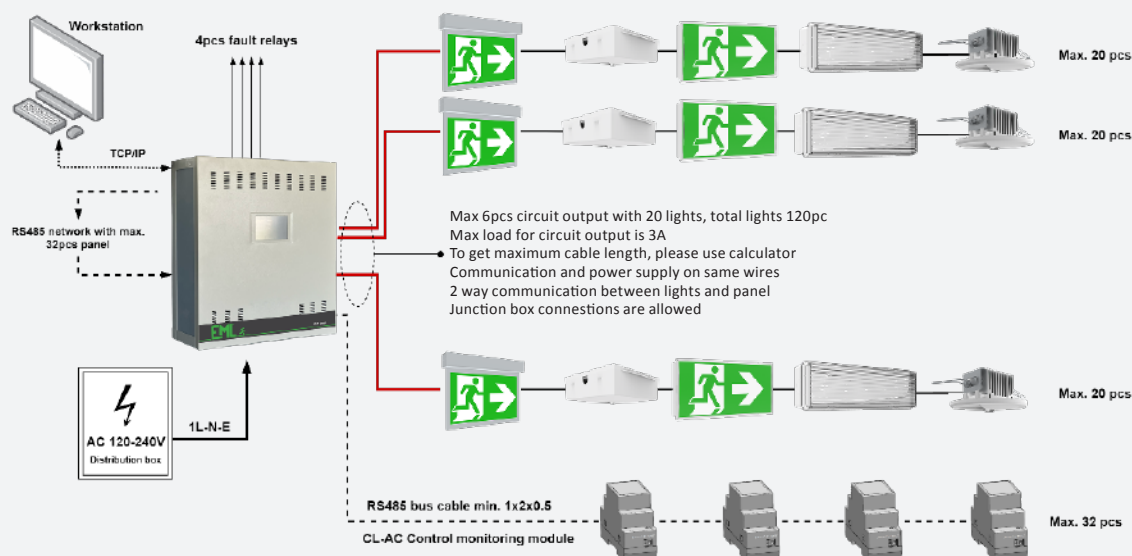
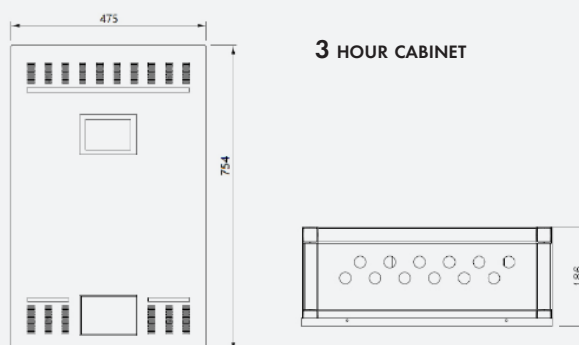
Constant nominal ambient temperature range: 0°C<T_a<25°C



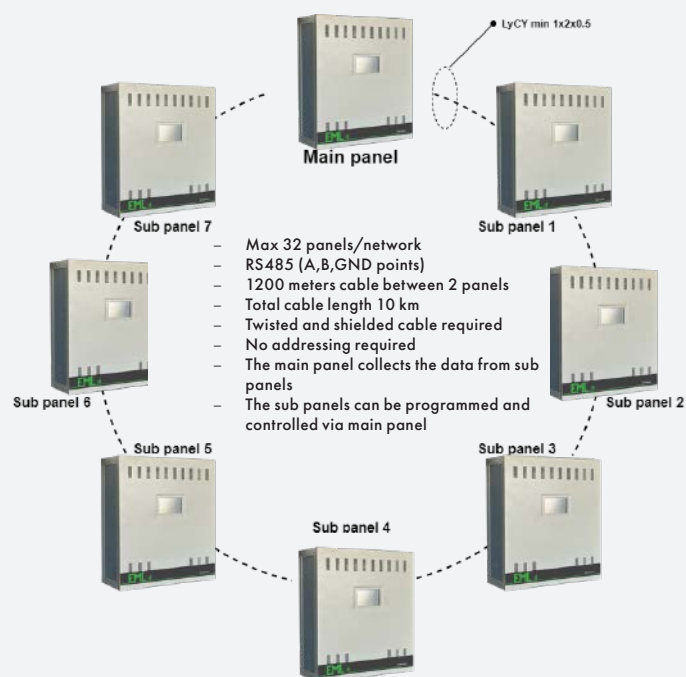
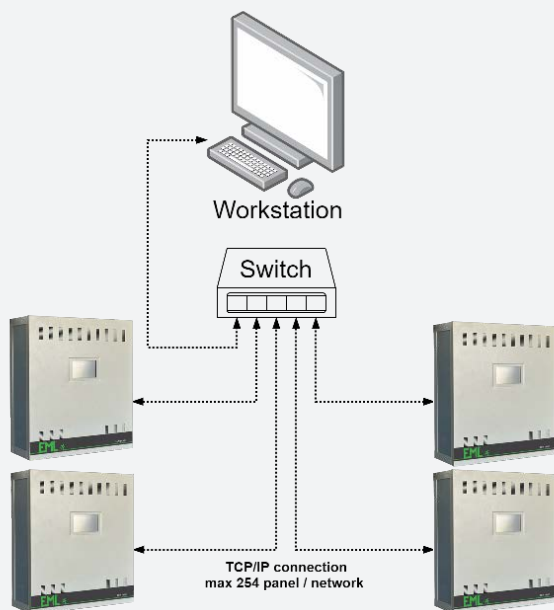
1 HOUR CABINET



3 HOUR CABINET



* 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/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	EML-24V CBS 1 HOUR	EML-24V 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	
MAX. CIRCUIT LOAD	3A	
MAX OUTPUT LOAD	18A	
MONITOR MODULES	Max. 32pcs EML-AC control modules on RS485 bus cable	
DISPLAY	5" LCD	
SOFTWARE	EML-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

EML-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

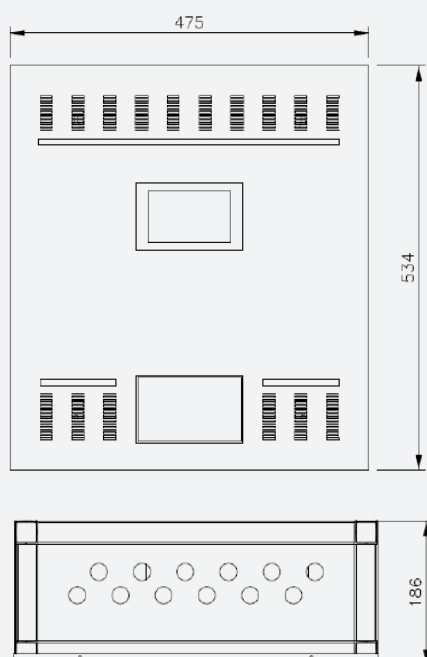
Max. input current: 2A

Output voltage: 24-32V

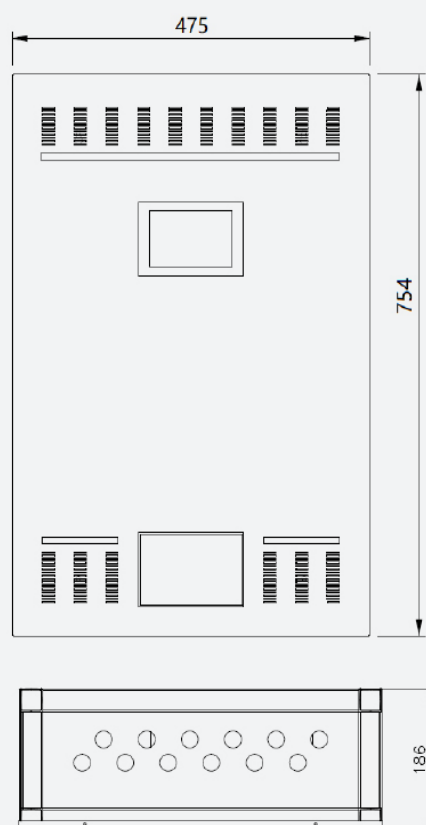
Constant nominal ambient temperature range: 0°C<T_a<25°C

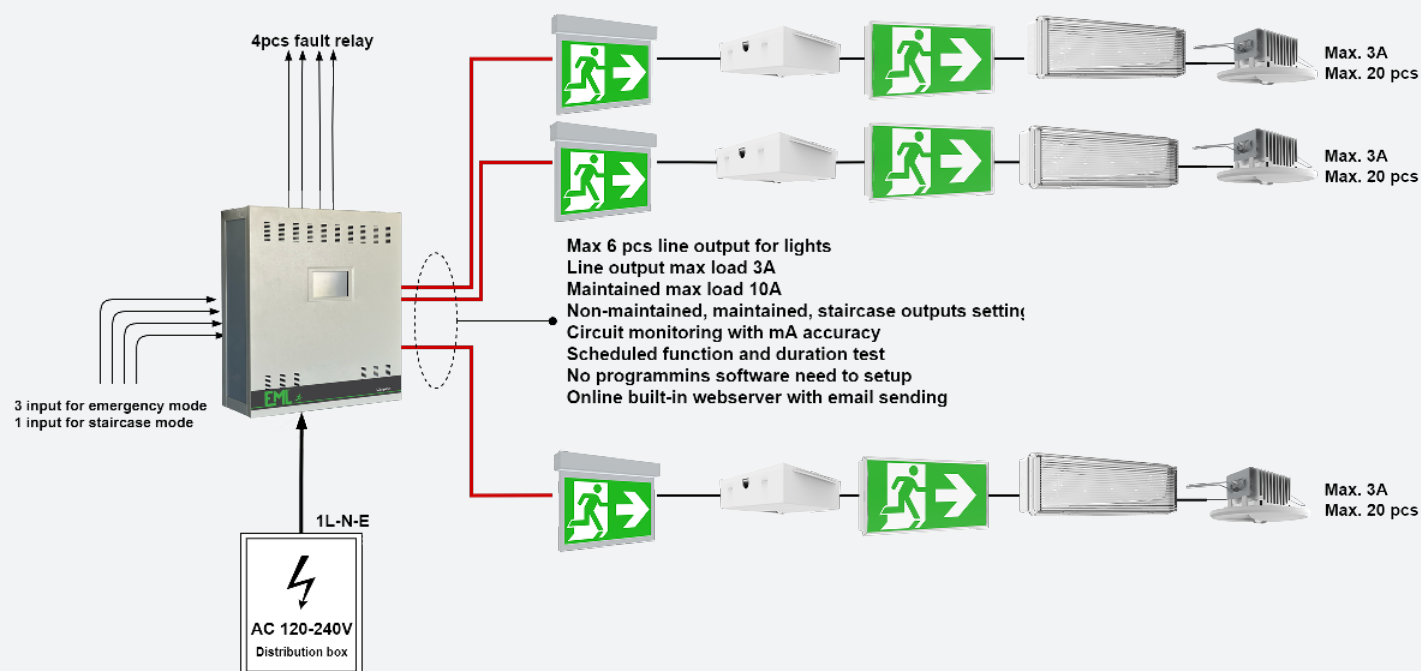


1 HOUR CABINET



3 HOUR CABINET





PANEL TYPE	EML-24V CON CBS 1 HOUR	EML-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 EML-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	
PROTECTION	IP20	
DIMENSIONS	534x475x186	754x475x186

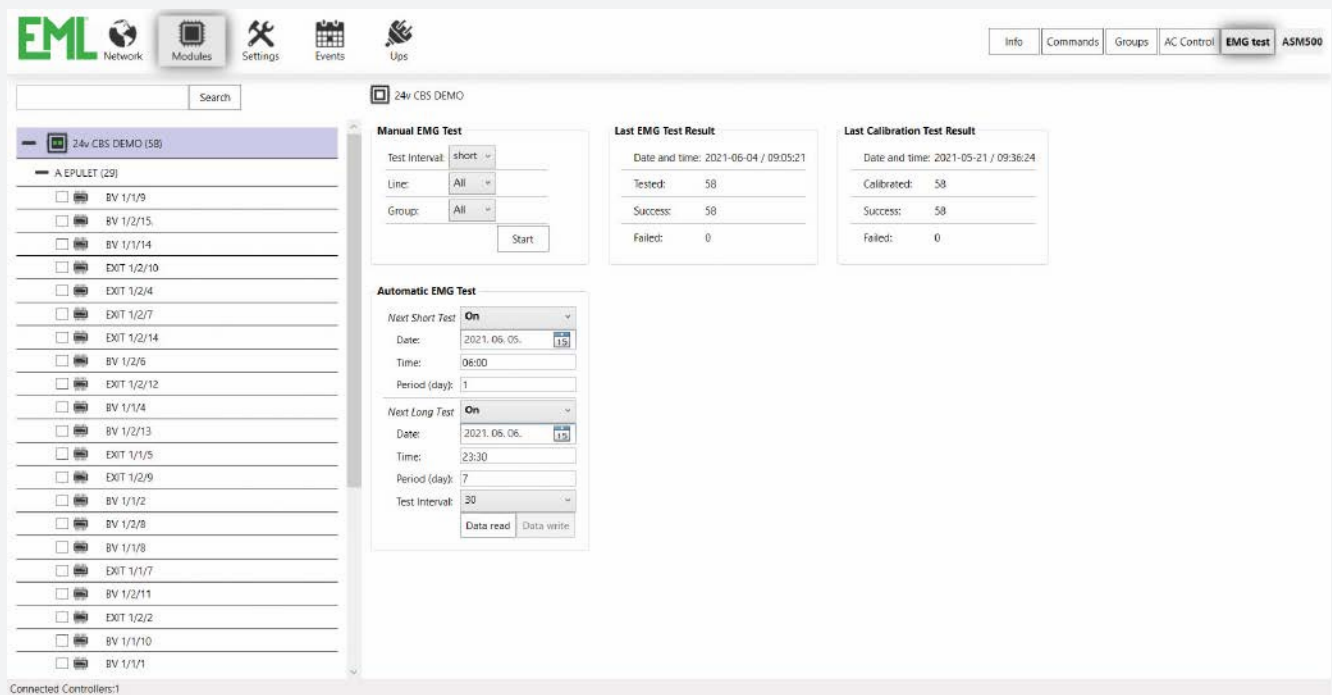
Software

- EML-UNI software versions:
- > installer

> 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

39



MOTORT LEALLITANI! GARAZST ELHAGYNI!



P5

B

EXIT SIGN LUMINAIRES

White plastic/ grey metal exit sign luminarie

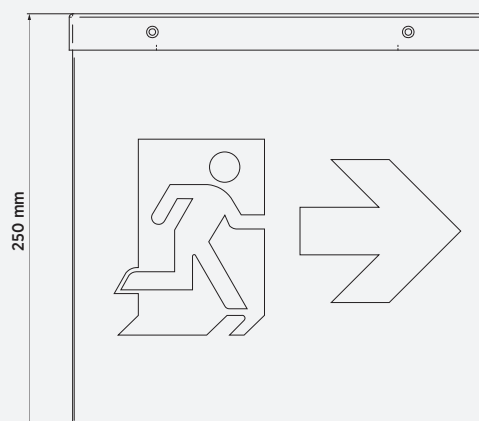
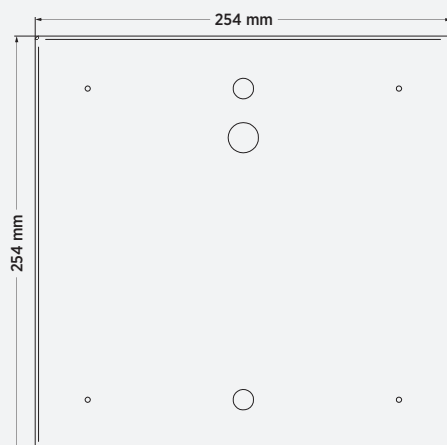
EML-014



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

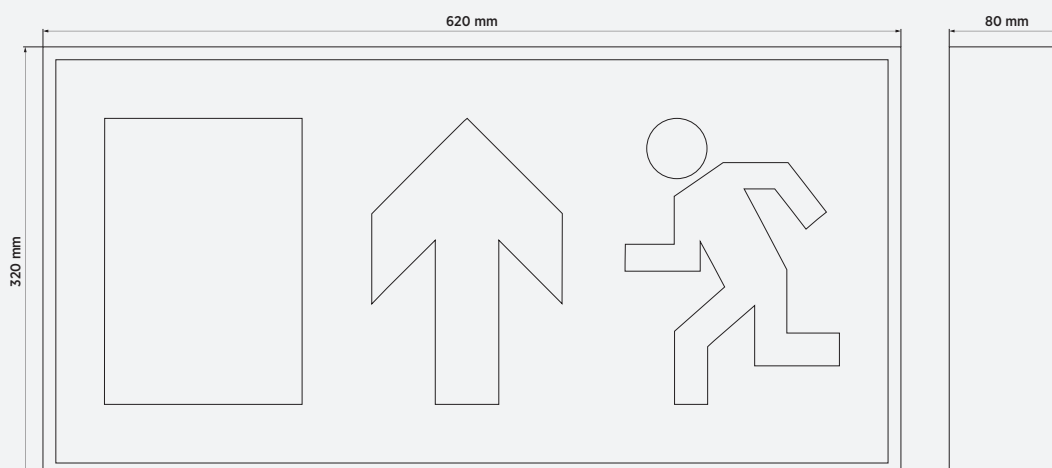
EML-9017



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



The largest LED exit sign of our portfolio is the EML-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

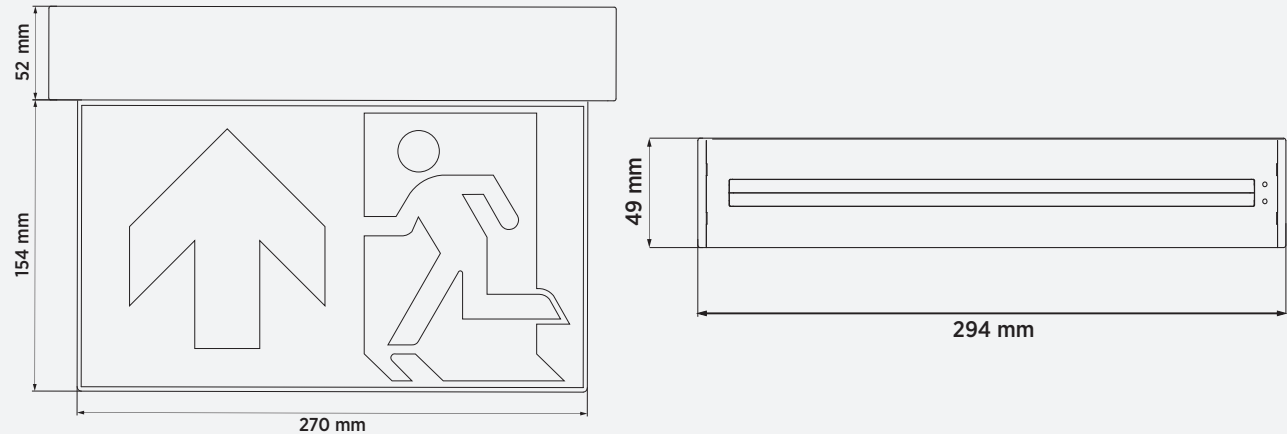
EML-414



Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag, suspended	50.000h 6000k	5-years	294x206x49mm	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 EML-414 luminaire suitable for types of mounting: to the ceiling, parallel to the sidewall and perpendicularly to the sidewall.



White plastic exit sign luminaire

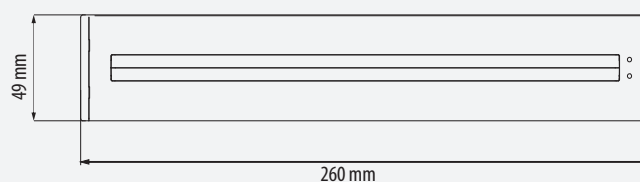
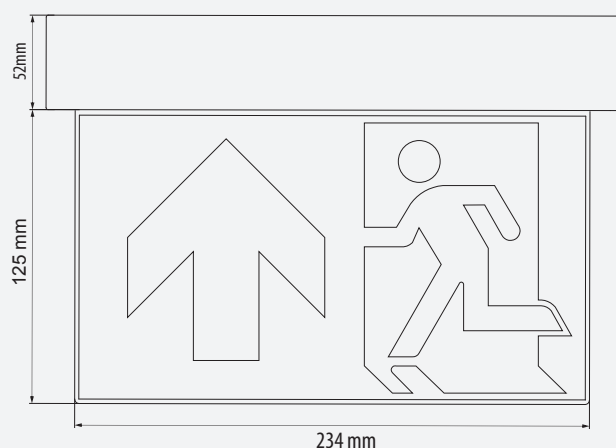
EML-417



Mounting	Light source	Warranty	Size	Temperature
Ceiling, sidewall, flag, suspended	50.000h 6000k	5-years	260x177x49mm	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 EML-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

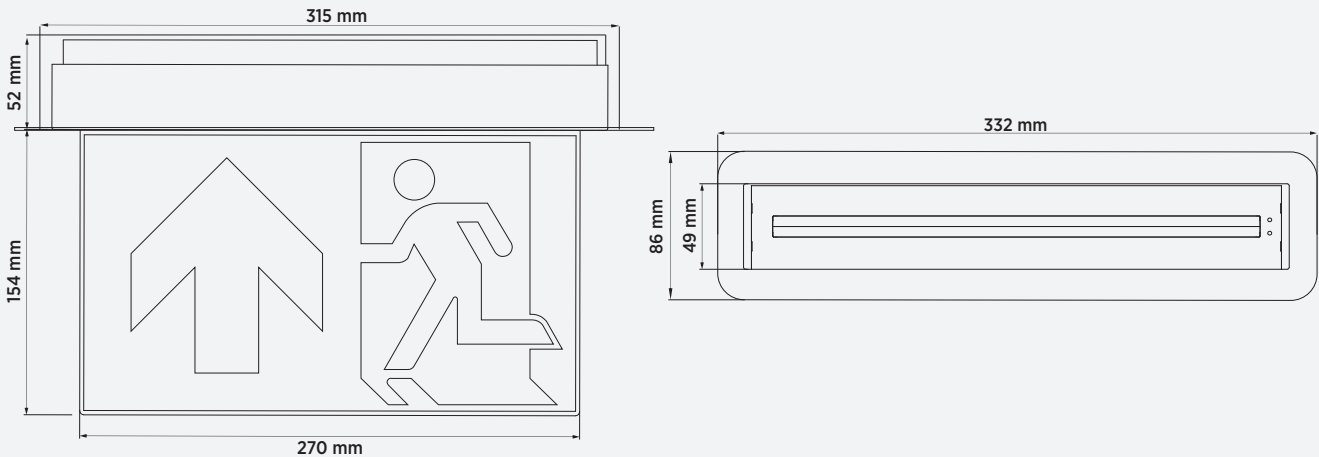
EML-414C



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	332x206x86mm	0°C<Ta<45°C



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



White plastic exit sign luminarie

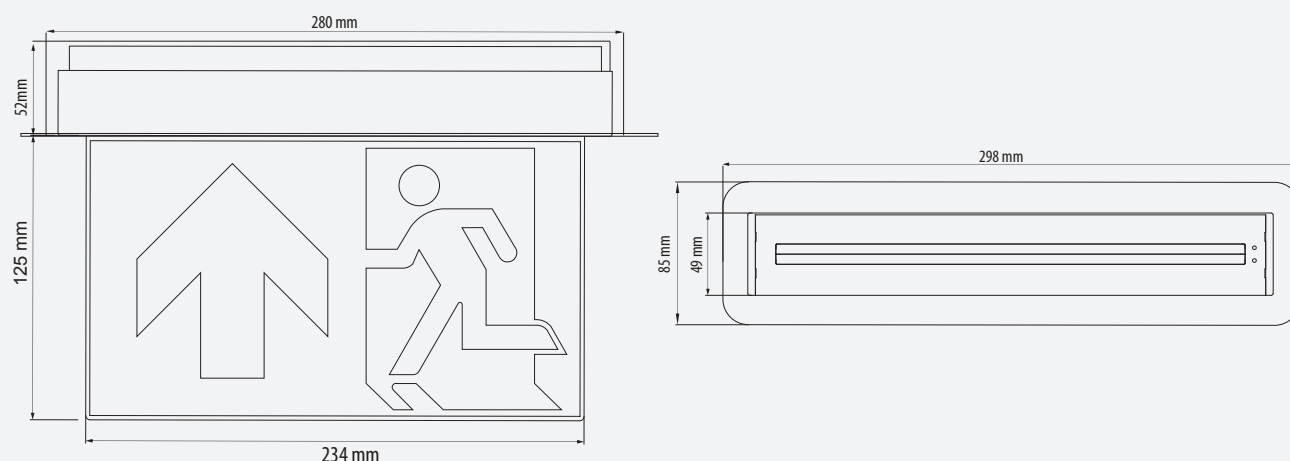
EML-417C



Mounting	Light source	Warranty	Size	Temperature
Recessed into ceiling	50.000h 6000k	5-years	298x87x179mm	0°C<Ta<45°C



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



White plastic exit sign luminarie

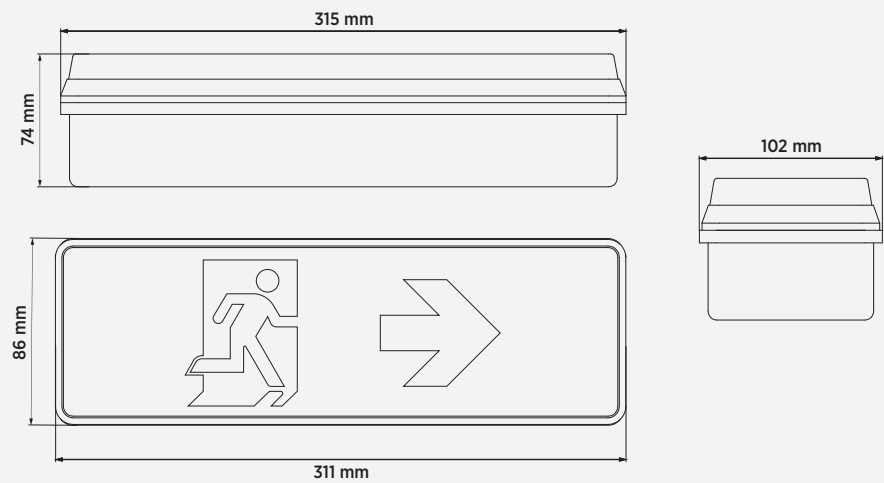
EML-617



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



The EML-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

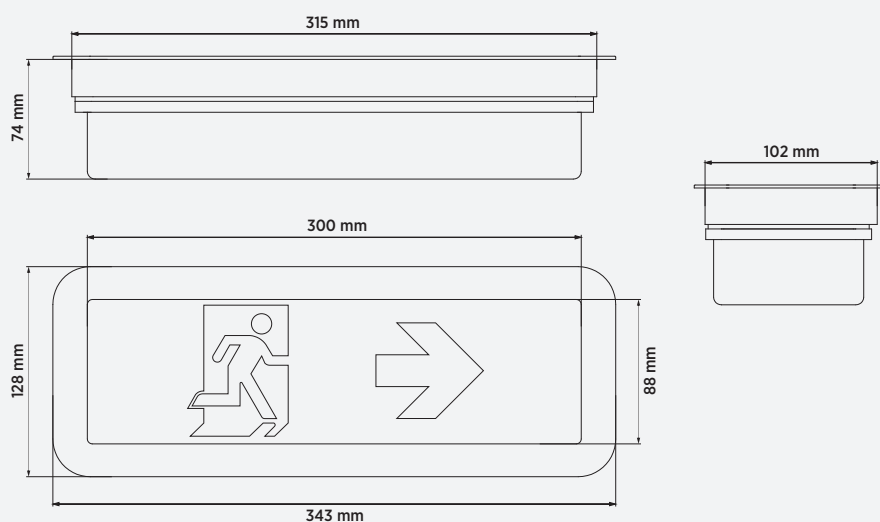
EML-817



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



The EML-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

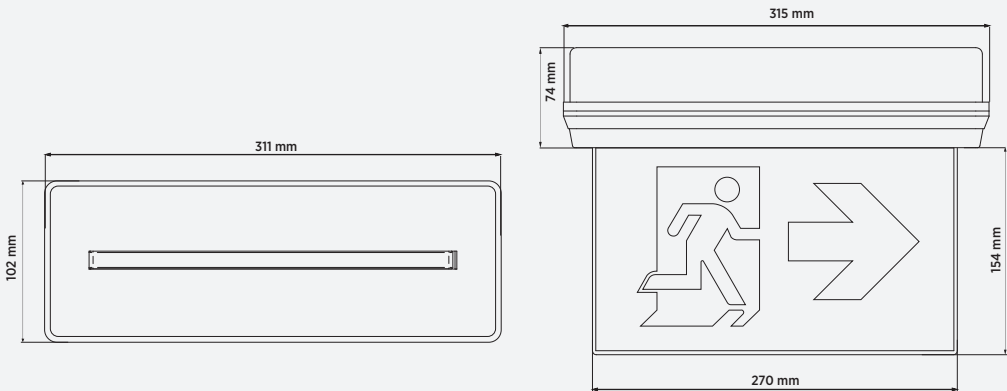
EML-617 PLEXIGLASS



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



The EML-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

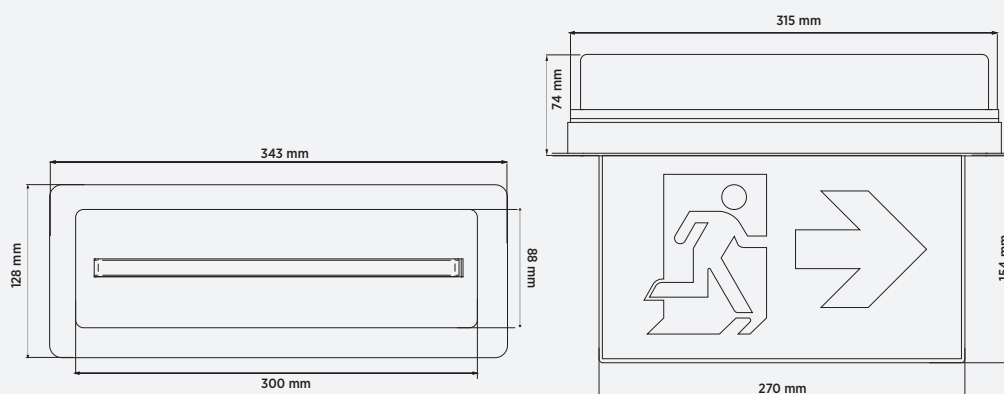
EML-817 PLEXIGLASS



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



The EML-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

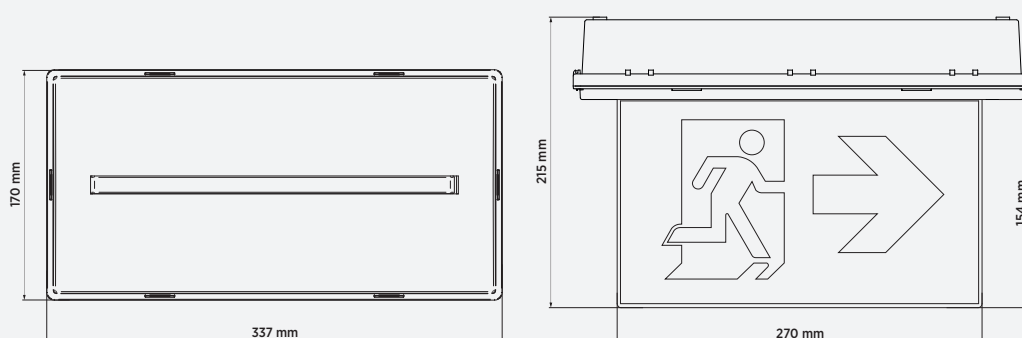
EML-6014



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



The EML-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

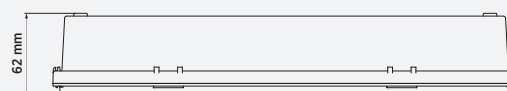
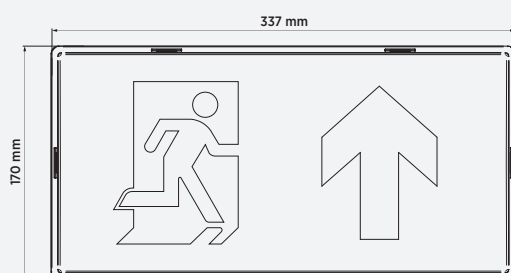
EML-6017



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

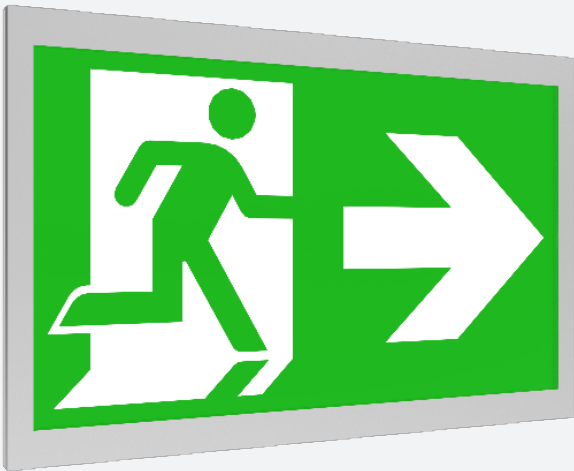


The EML-6017 is an elegant one-sided, sidewall-mounted LED exit sign with IP65 protection. Suitable for dry and wet locations (rest room, basement, garage) and for outdoor use as well.









Grey plastic exit sign luminarie

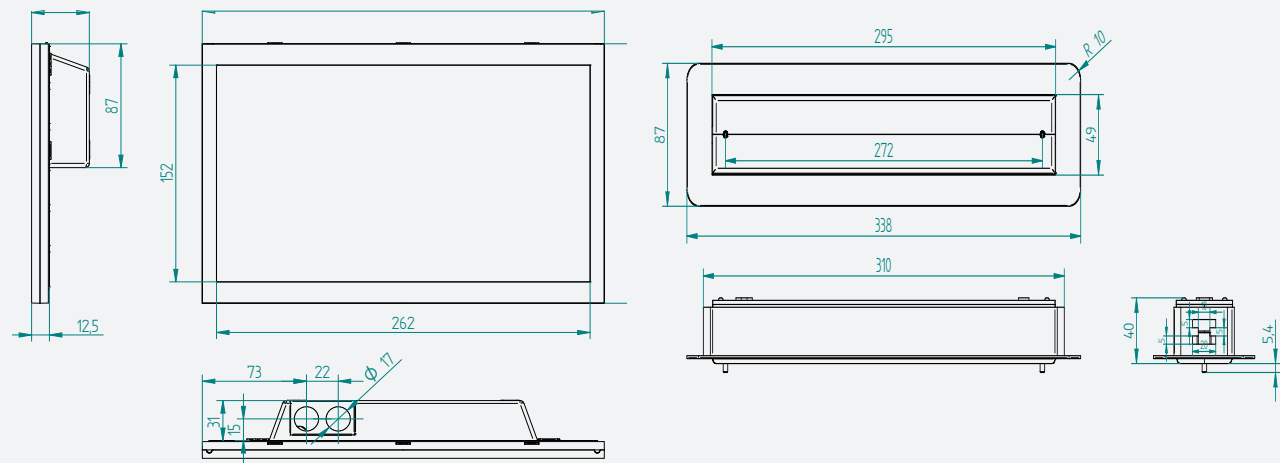
EML-415



Mounting	Light source	Warranty	Size	Temperature
Sidewall, sidewall recessed, suspended from ceiling, recessed into ceiling and suspended	50.000h 6000k	5-years	294x49x206mm	0°C<Ta<45°C



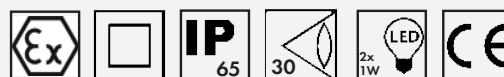
The EML-415 is an elegant exit sign with IP42 protection and a 30m viewing distance. One-sided and double-sided design with sidewall-mounted, ceiling-recessed suspended, and ceiling-suspended mounting variations. Pictogram’s direction must be marked during the order.



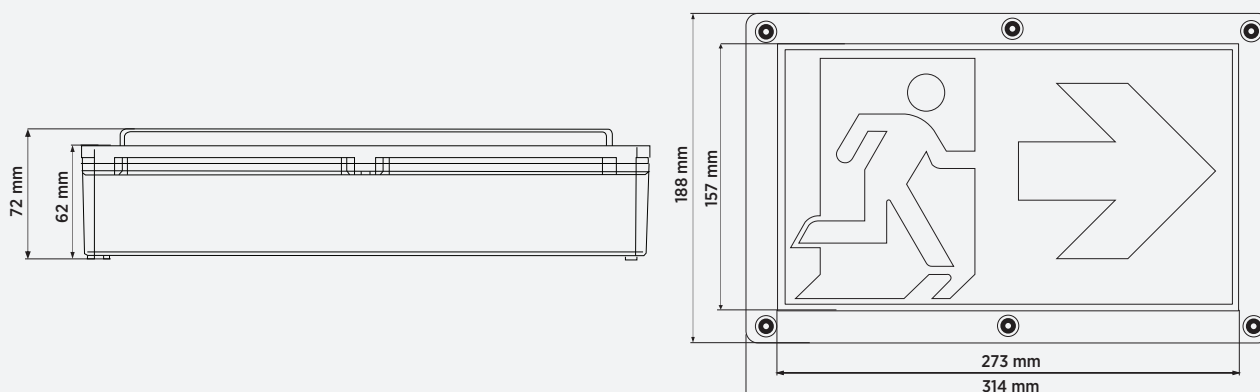
Explosion-proof white plastic exit sign luminarie **EML-8017**



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



The EML-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.



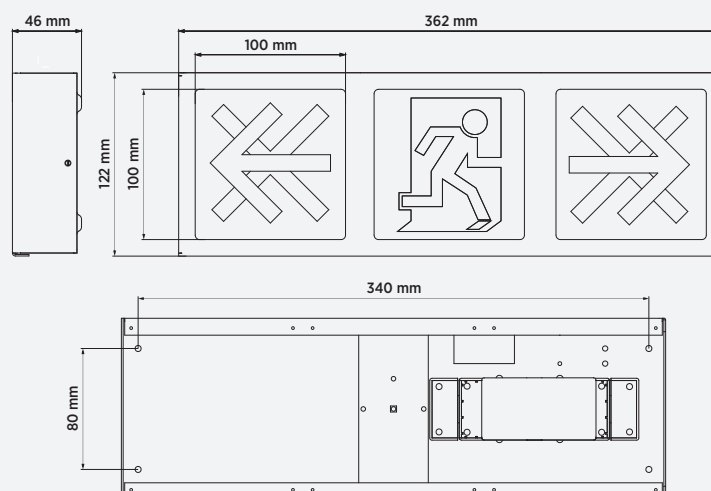
Metal grey dynamic exit sign luminarie **EML-D200**



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

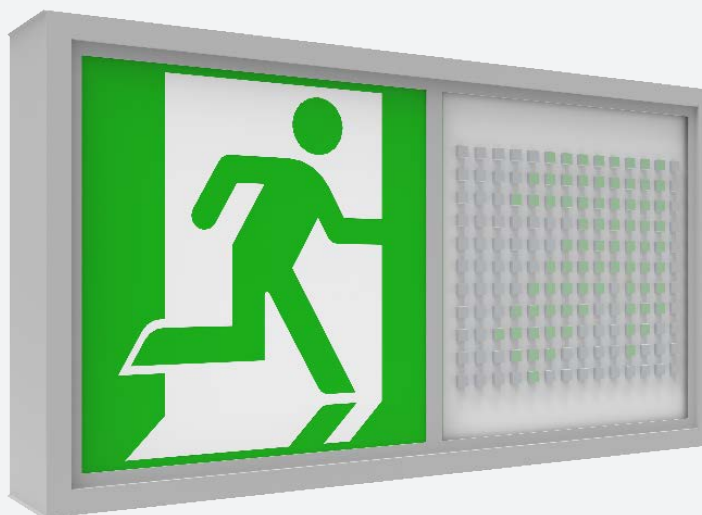


Dynamic LED exit light for sidewall. It is recommended in buildings, where more escape routes are possible. In case of emergency the control panel receives information from the fire alarm centre regarding the location of the fire. Then it informs the light about the right escape route to show.



Metal grey exit sign luminarie

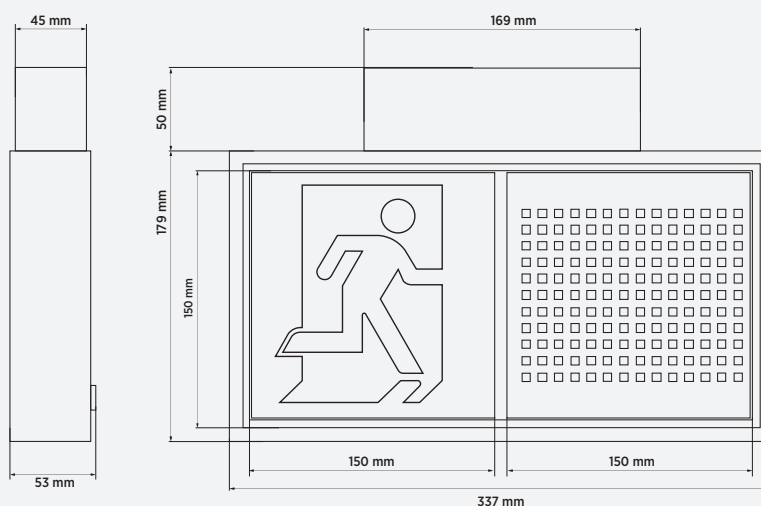
EML-D300



Mounting	Light source	Warranty	Size	Temperature
Sidewall recessed	50.000h 6000k	5-years	337x52x169mm or 337x52x229mm	0°C<Ta<45°C



The EML-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.



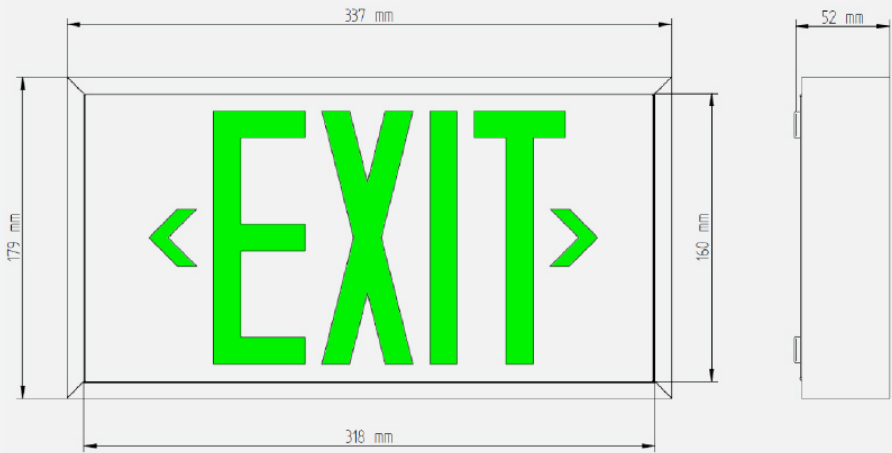
Metal grey
dynamic exit sign luminarie
EML-D300 EXIT



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 EML-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.



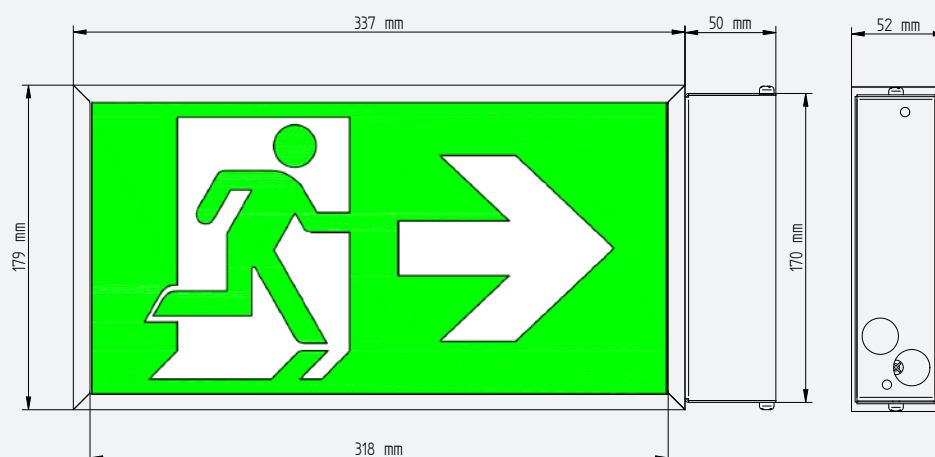
Metal grey exit sign luminarie **EML-D300 RUNNING MAN**



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 EML-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

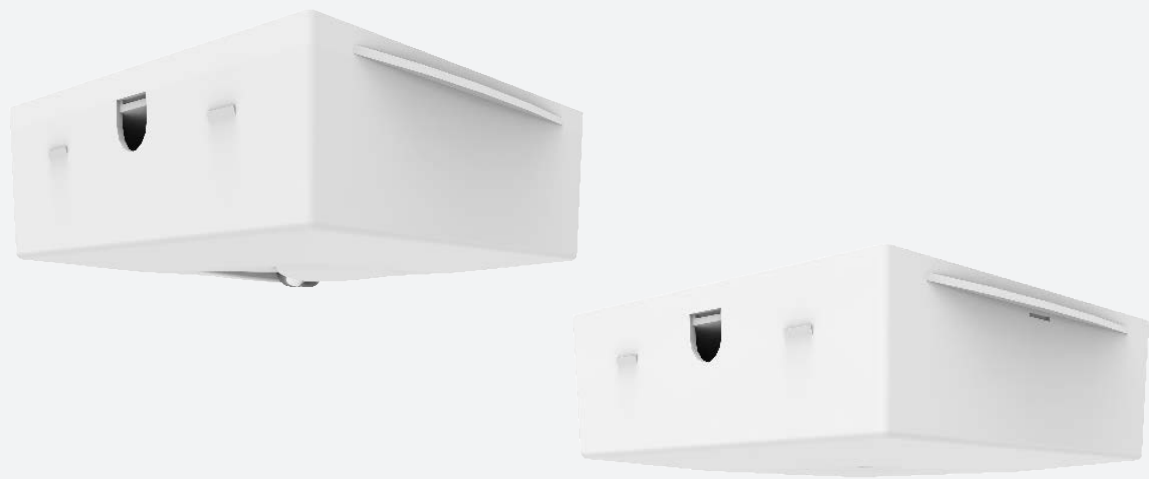




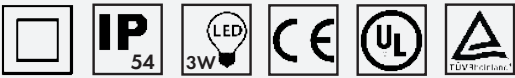


EMERGENCY LUMINAIRES

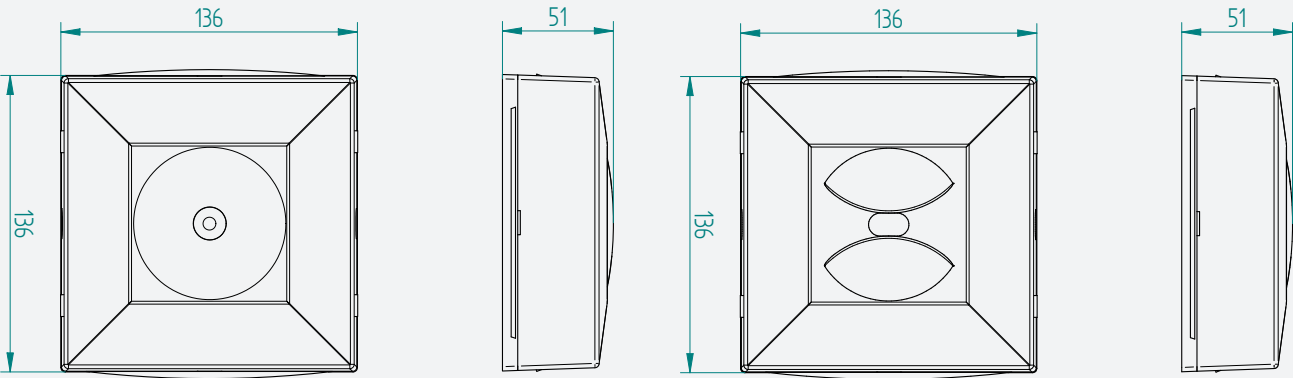
White, black plastic
emergency luminarie
EML-313 R/F



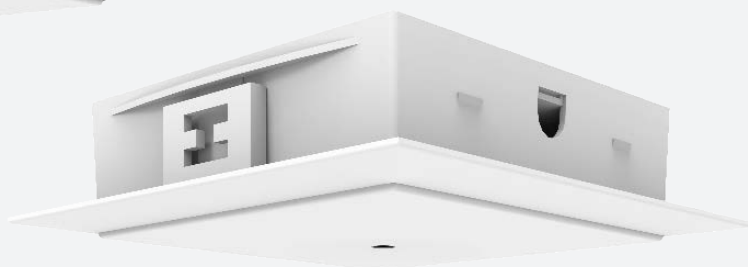
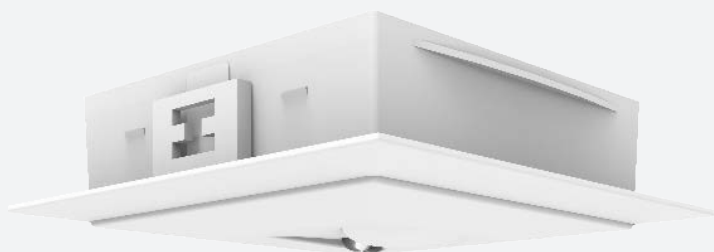
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling, wall	50.000h 6000k	314 lm (R), 329 lm (F)	5-years	136x136x51mm	0°C<Ta<45°C



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.



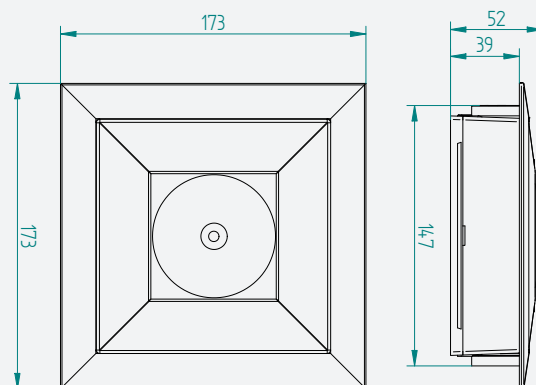
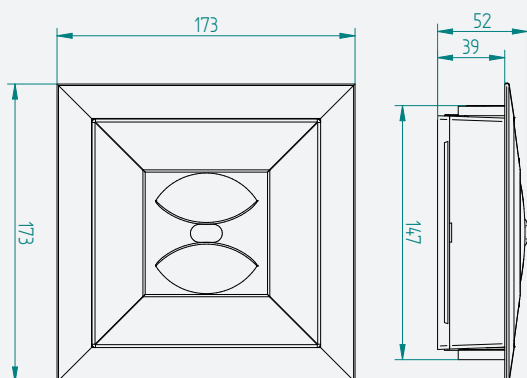
White, black plastic emergency luminarie **EML-313 C/R and C/F**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed	50.000h 6000k	314 lm (R), 329 lm (F)	5-years	173x173x52mm	0°C<Ta<45°C



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).



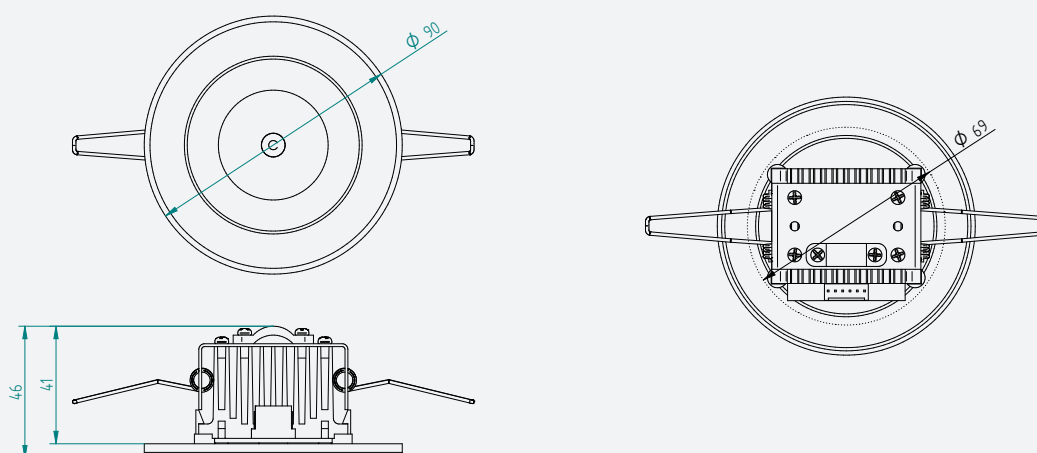
White, black plastic emergency luminarie **EML-4014R**



Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed	50.000h 6000k	377 lm	5-year	90x69x46mm	0°C<Ta<45°C

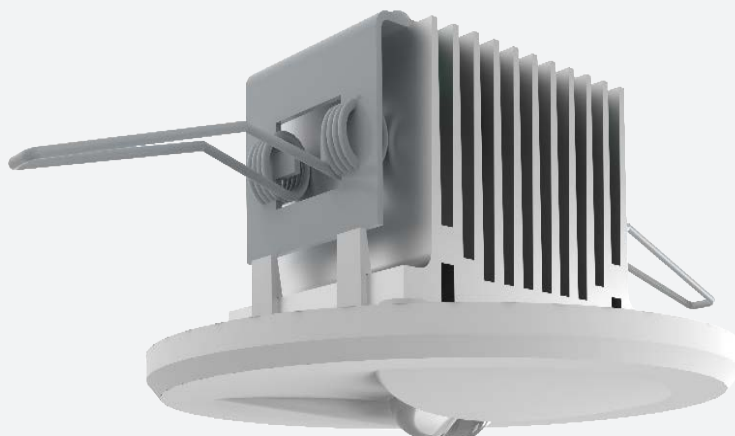


Aesthetic LED safety light for recessing into the ceiling. It is available with round LED lens. It has a great effective range, its practical design makes it easy to install.



White, black plastic
emergency luminarie

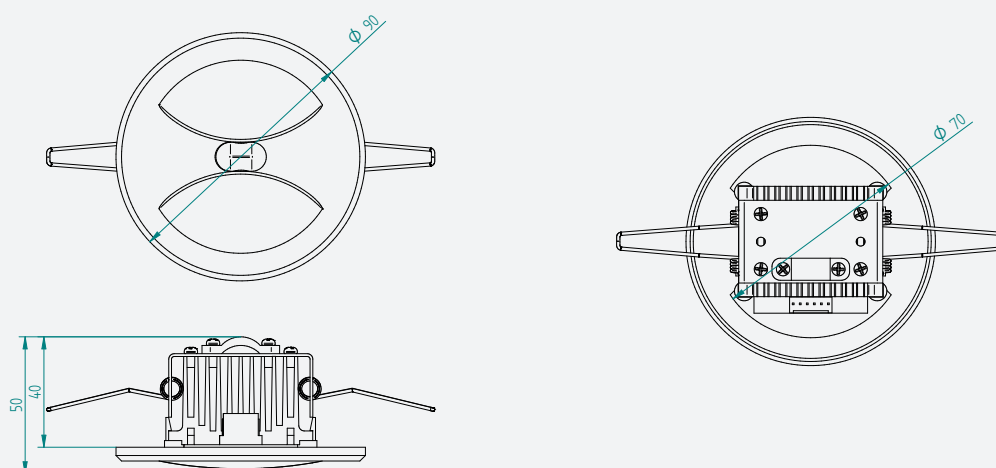
EML-4014F



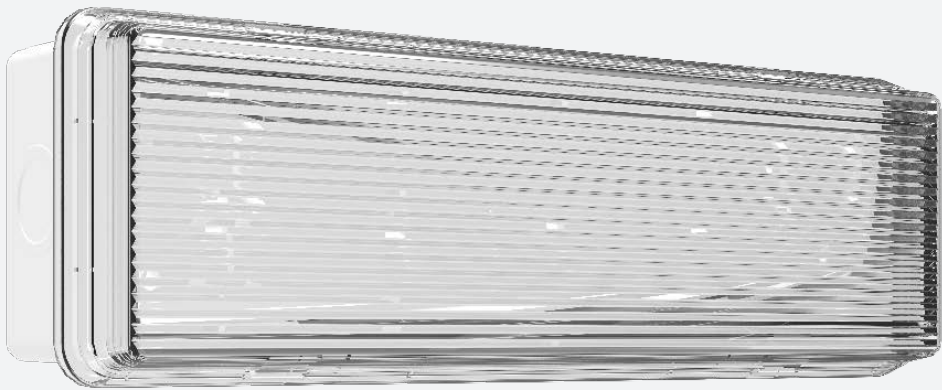
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Ceiling recessed	50.000h 6000k	388 lm	5-year	90x69x46mm	0°C<Ta<45°C



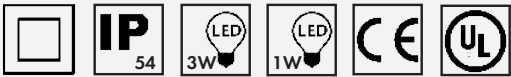
Aesthetic LED safety light for recessing into the ceiling. It is available with lens for corridors. It has a great effective range, its practical design makes it easy to install.



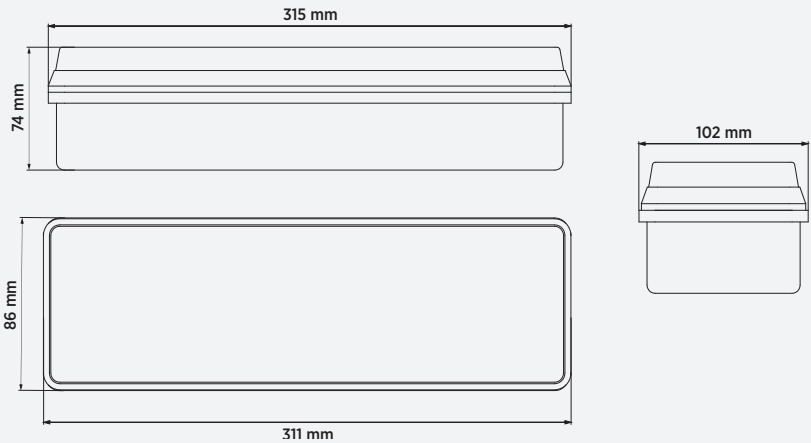
White plastic emergency luminarie **EML-613**



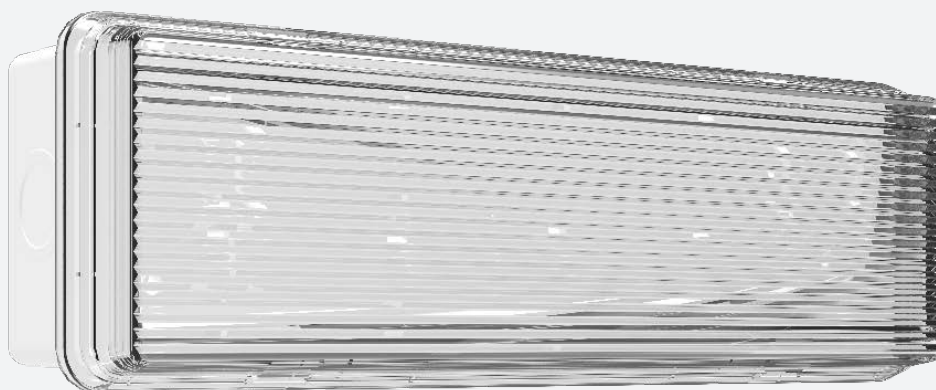
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	294 lm	5-years	315x102x74mm	0°C<Ta<45°C



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



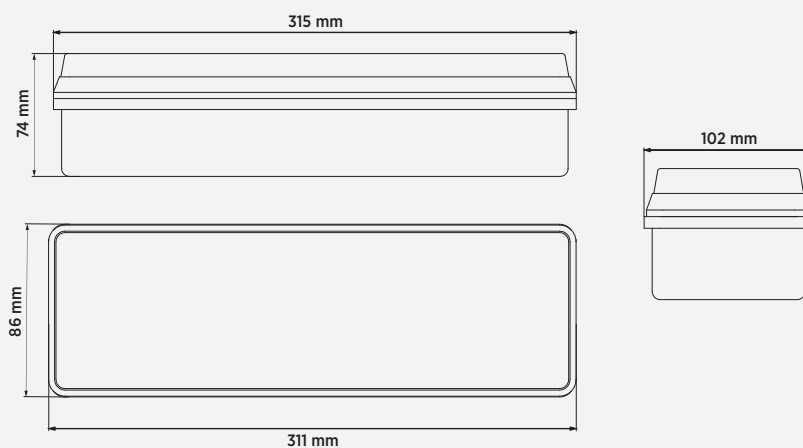
White plastic emergency luminarie **EML-616**



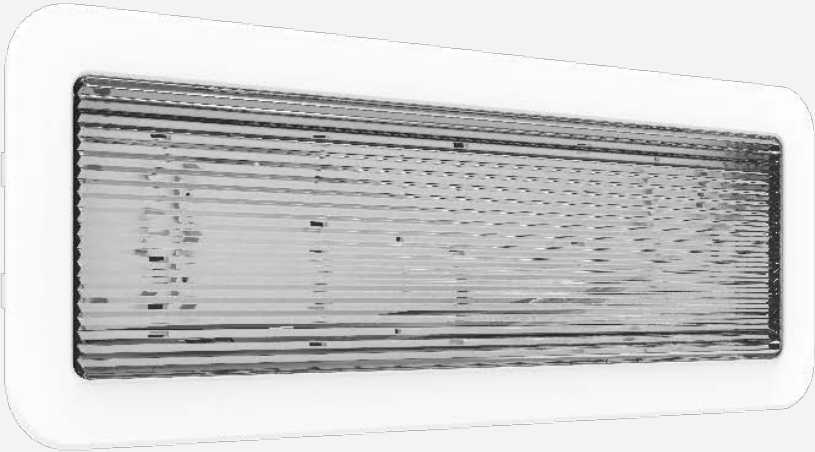
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	591 lm	5-year	315x102x74mm	0°C<Ta<45°C



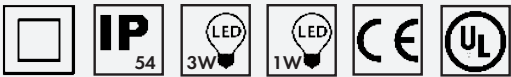
LED safety light with IP54 protection for ceilings or sidewalls.



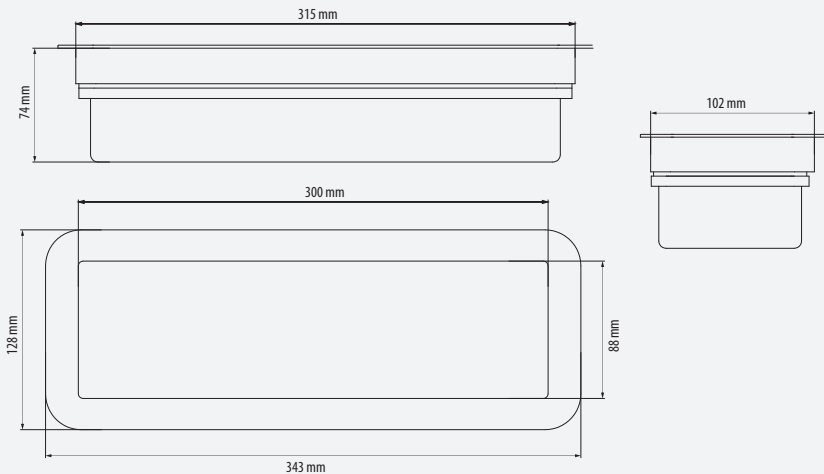
White plastic emergency luminarie **EML-813**



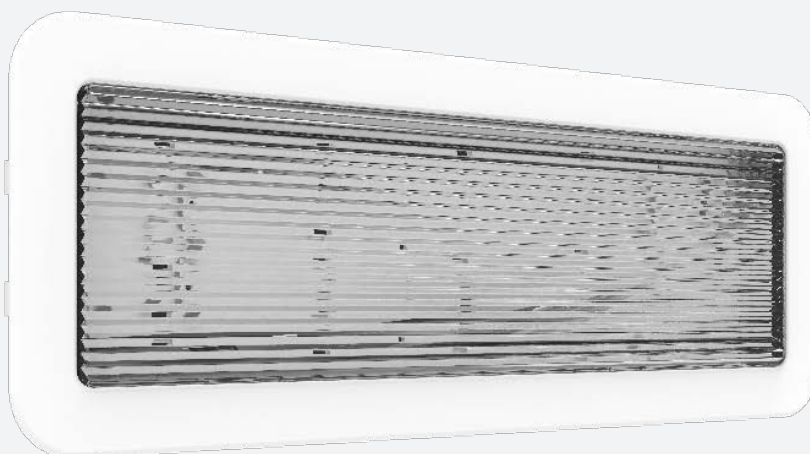
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Into suspended ceiling	50.000h 6000k	251 lm	5-year	343x128x74mm	0°C<Ta<45°C



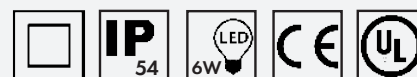
LED safety light with IP54 protection, can be mounted into suspended ceiling. Maintained function with the built-in 1W LED



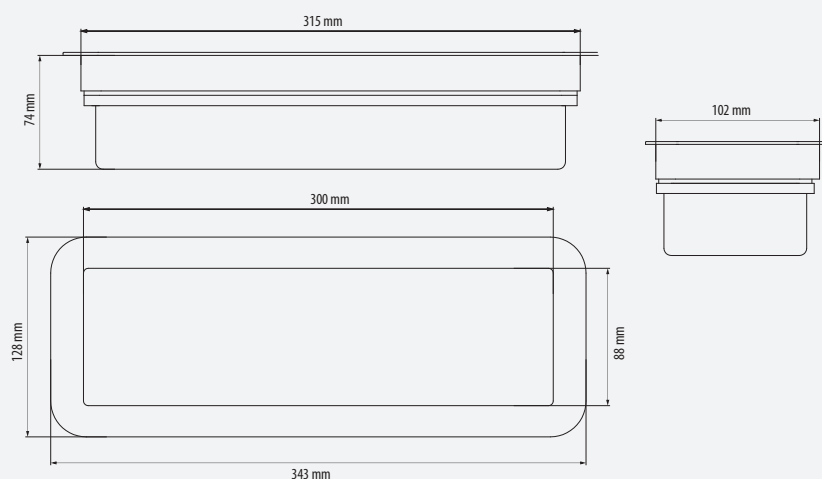
White plastic emergency luminarie **EML-816**



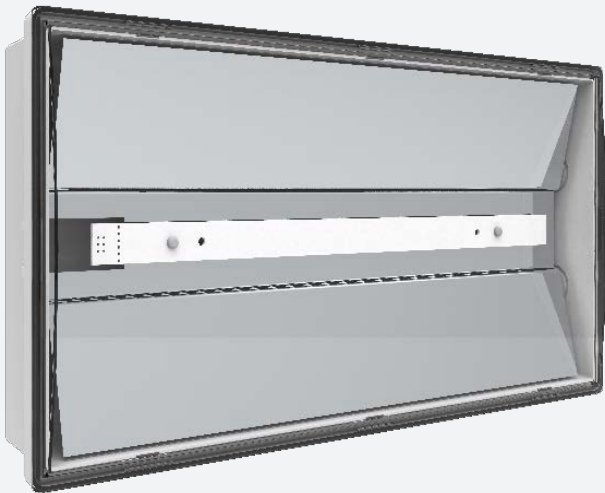
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Into suspended ceiling	50.000h 6000k	591 lm	5-year	343x128x74mm	0°C<Ta<45°C



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



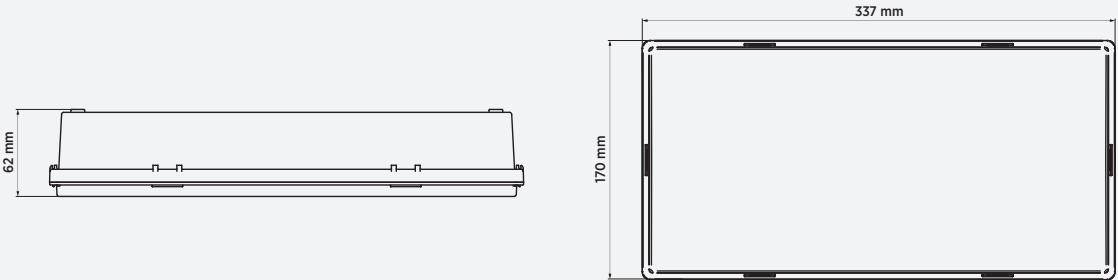
White plastic
emergency luminarie
EML-6016



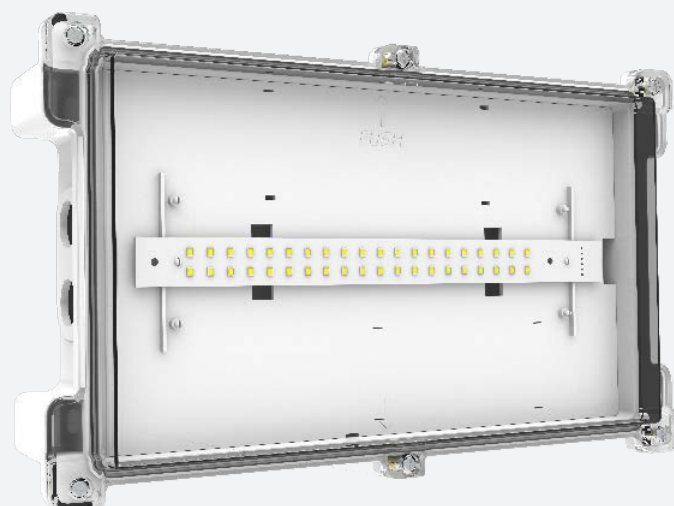
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	604 lm	5-year	337x170x62mm	0°C<Ta<45°C



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



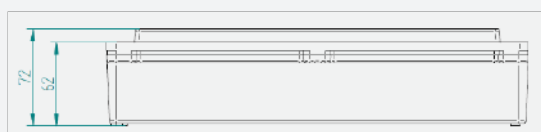
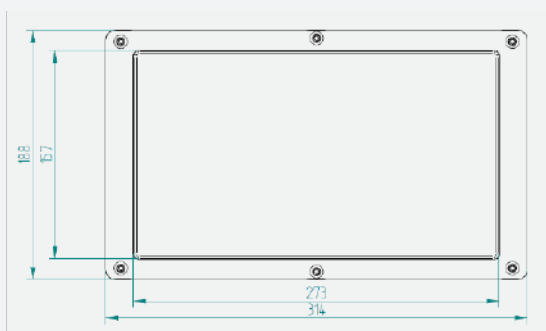
White plastic emergency luminarie **EML-8016**



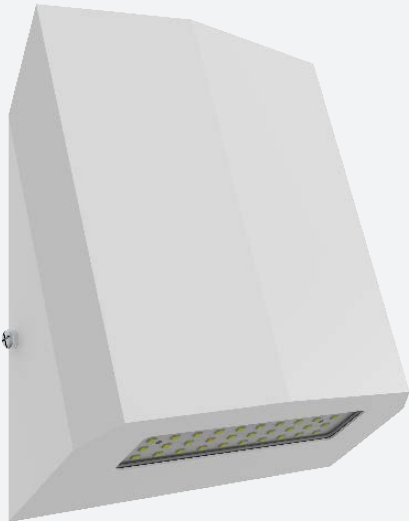
Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall, ceiling	50.000h 6000k	591 lm	5-year	314x188x72mm	0°C<Ta<45°C



The EML-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.



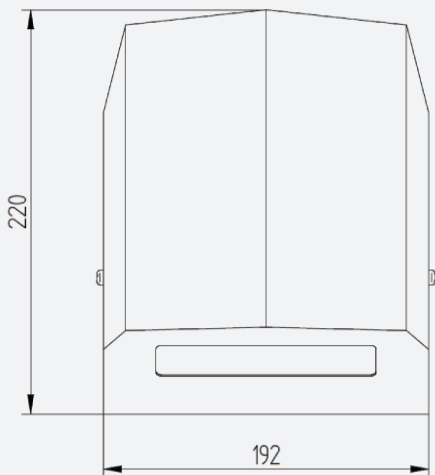
White metal emergency luminarie **EML-5013**














Mounting	Light source	Luminous flux	Warranty	Size	Temperature
Sidewall	50.000h 6000k	314 lm	5-year	192x220x65mm	-25°C<Ta<50°C

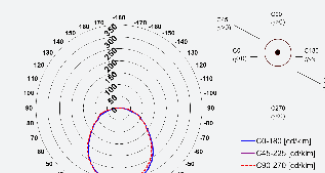
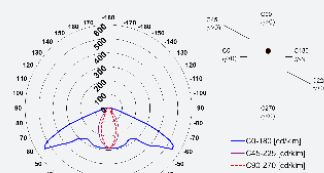
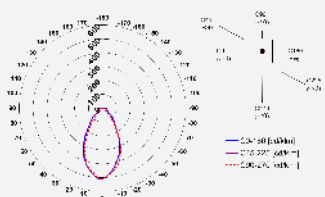



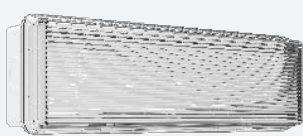
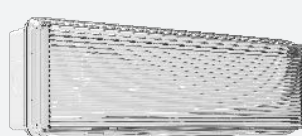








Thanks to IP65 protection it is suitable in dry and wet locations (rest room, basement, garage, etc.) and for outdoor use as well.

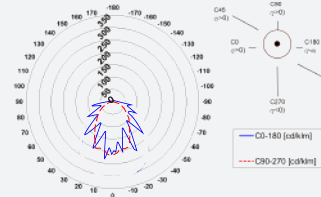
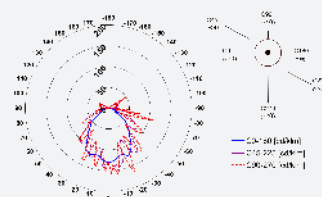
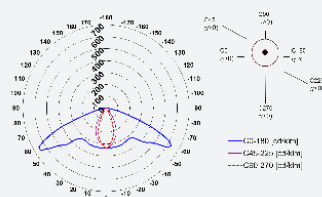


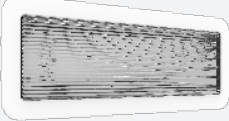
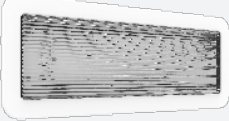










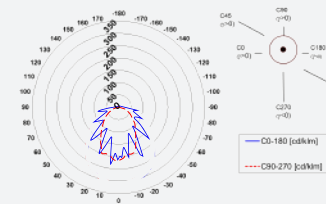
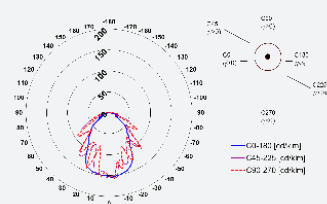
			EML-313 R (314 lm)							EML-313C F (329 lm)							EML-4014R (377 lm)						
Luminaire																							
Mounting height (m)			2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
Escape route min 1 lux	Transverse mounting		6,47	7,4	9,05	10,73	11,49	12,03	9,51	13,12	14,9	18,02	22,53	21,75	15,35	0	10,06	10,73	11,97	13,3	13,77	13,33	0
			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
	Axial mounting		5,81	5,77	7,12	9,55	10,84	11,69	9,36	5,99	5,71	4,77	6,18	6,9	6,63	0	10,03	10,74	11,97	13,24	13,72	13,23	0
			2,34	2,69	3,31	3,95	4,23	3,96	0	1,51	1,73	2,13	2,49	2,18	0,68	0	4,11	4,32	4,76	4,89	4,36	2,28	0
Open (anti-panic) area min 0.5 lux	Transverse mounting		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
			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
	Axial mounting		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
			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














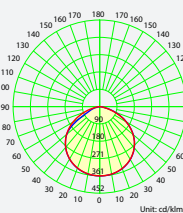
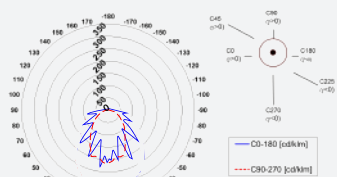
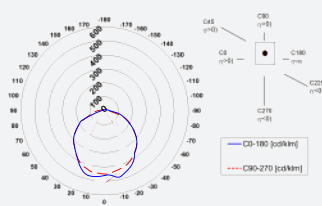
			EML-4014F (388 lm)							EML-613 (294 lm)							EML-616 (591 lm)						
Luminaire																							
Mounting height (m)			2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15	2,5	3	4	6	8	10	15
Escape route min 1 lux	Transverse mounting		14,18	16,02	19,08	23,91	24,74	18,34	4,61	7,43	8,38	9,71	10,58	10,68	8,29	0	9,71	10,48	11,55	13,29	14,17	14,84	0
			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
	Axial mounting		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
			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
Open (anti-panic) area min 0.5 lux	Transverse mounting		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
			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
	Axial mounting		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
			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



			EML-813 (251 lm)							EML-816 (591 lm)						
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	9,71	10,48	11,55	13,29	14,17	14,84	0
			3,17	3,47	3,6	3,71	3,38	0	0	3,92	4,23	4,52	5,08	5,17	4,66	0
	Axial mounting		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
			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
Open (anti-panic) area min 0.5 lux	Transverse mounting		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
			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
	Axial mounting		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
			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



			EML-6016 (604 lm)							EML-8016 (591 lm)							EML-5013 (314 lm)						
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	9	
Escape route min 1 lux	Transverse mounting		9,71	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	
			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	
	Axial mounting		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							
			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							
	Open (anti-panic) area min 0.5 lux		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							
			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							
	Axial mounting		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							
			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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