



EML-24V-CB SYSTEM

INTELLIGENT EMERGENCY LIGHTING
WITH 24V DC CENTRAL BATTERY



2020



EMERGENCY LIGHTING

For our safer tomorrow

Emergency lighting for your safety

The construction of ever larger and higher buildings continues and increasing number of people in one area, therefore the buildings must be safe at all times, even if mains power failure occurs. Emergency lighting is part of the fire safety provision of a building and cannot be ignored. Light enables people to leave buildings safely, helps them to find their way round and reduces accident hazards.

The need for emergency lighting is clearly defined by the various regulations and standards. Despite of that fact the final decision as to the overall format of the system installed remain in the hands of the key stakeholders.

The procedure in respect of emergency lighting:

- Planning and design of the system
- Positioning of emergency lighting luminaires (wall/ceiling mounted lights, signs)
- Permanent installation of all fittings
- Periodic testing/maintenance of the system.
- Emergency lighting design must meet regulations, standards and needs.

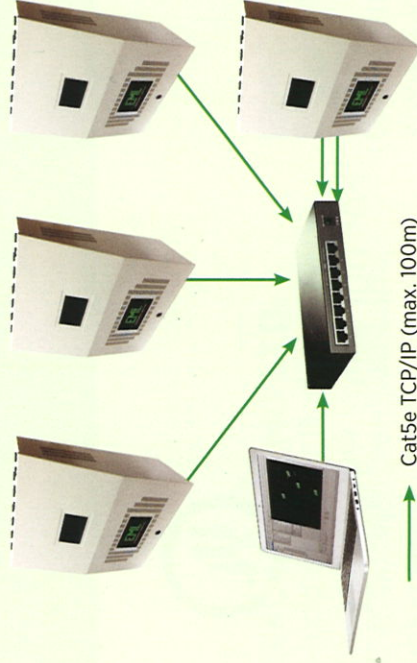
Emergency lighting can be implemented by two different ways:

- a centrally supplied emergency lighting system
- self-contained emergency and exit lights.

The advantages of the central battery systems are the monitoring and the maintenance is simpler, quicker and less expensive. When the battery replacement is eventually necessary, this is a quick and simple operation that avoids the disruption caused by having to access and dismantle numerous fittings in public areas. It is possible to build larger system with thousands lamps. The luminaires contains fewer components to maintain and service. From the environmental point of view, by reducing the use of hazardous substances, it contributes to mitigating the harmful effects of the environment. Central battery systems are easy to test, simple to maintain and offer long-term cost advantages.

EML-24V-CB Control Panel:

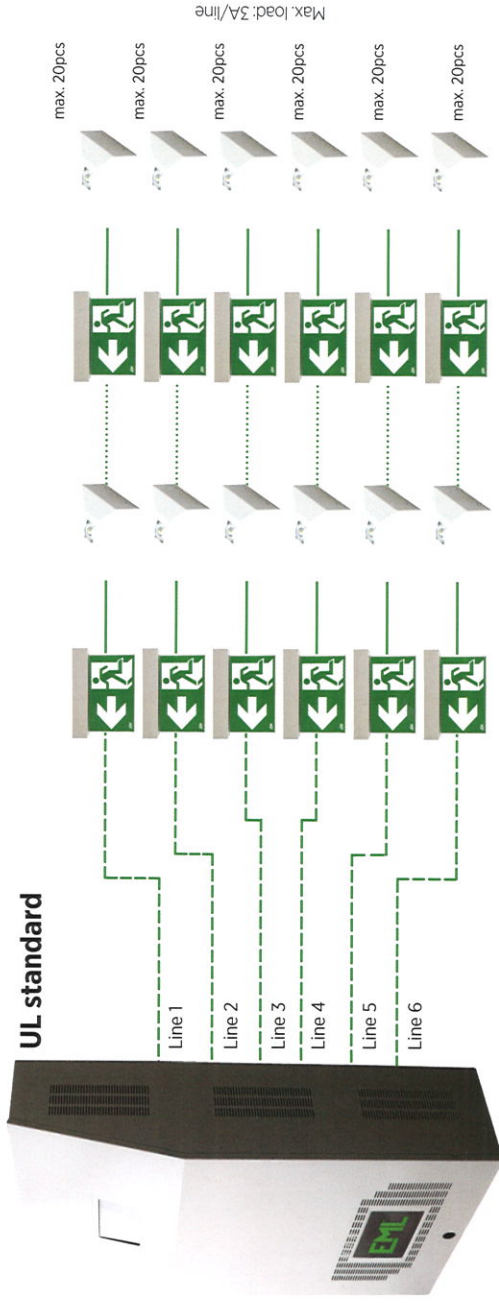
- Identifies and monitors the lighting units
- Instructs the system to switch into emergency operation
- Monitors the battery charging and status
- Software and hardwarekey requires for programming
- Free client version software with basic features
- RS485 or TCP / IP network structure
- Backup via USB
- Creates customizable reports



	EML-24CBS	EML-24CBS/conv
Number of devices	120 pcs of devices (20 devices per line)	max. 6x15 pcs
Input Voltage range	100-240 V AC	
Output Voltage range	24-33 V DC	
Communication	DC Power line (ASM BUS), UDP, MODBUS, FIREALARM (option)	-
Network	TCP/IP or RS485	-
Luminaire control	The luminaires can be controlled individually or in groups	Line control only (6 lines)
Store events	2000 events/control panel day/month/year	
Gateway management	32 panels per system	-
Software	Graphics software	-
Language	English	
Display	5"LCD Touch Screen	
Output	4pcs. Relay contact	
Ingress protection/IP	20	
Dimensions	Width: 400 mm, Depth: 186 mm, Height: 720 mm (3 hours house)	

Advantages of the EML-24V-CB

- Compact CBS with charger and battery (24V DC) and monitoring with conventional or addressable luminaires
- Combine advantages of addressed and decentralised systems
- Monitors all individual components of the system (only addressable type)
- Gathers all collected information to a single location
- Monitoring fast and easy
- The system records data
- The monitoring starts automatically
- 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
- Luminaires contain fewer components-it contributes to mitigating the harmful effects on the environment
- High level of the safety (Class III)
- Offer long-term cost advantages
- High quality
- Easy to install
- Suitable in small and larger buildings as well



*Choose cable type in accordance with state & local municipal requirements and or any other requirements applicable and as warranted.

Luminaires

Luminaire	Equipment	Input current
EML-414	Σ 1W LED	85 mA
EML-6014	Σ 1W LED	85 mA
EML-6017	Σ 1W LED	85 mA
EML-313	Σ 3W LED	180 mA
EML-4014	Σ 4W LED	230 mA
EML-616	Σ 6W LED	300 mA
EML-816	Σ 6W LED	300 mA
EML-6016	Σ 6W LED	300 mA

Load	Cross section	Length
3A	1,5 mm ²	52 m
2A	1,5 mm ²	79 m
1A	1,5 mm ²	152 m
3A	2,5 mm ²	86 m
2A	2,5 mm ²	128 m
1A	2,5 mm ²	249 m

Max. voltage drop on cable = 4 V • Fuse-protection per final circuit: 3.15 A
Max. load per final circuit: 3 A
Max. wire length for max. voltage drop of 4 V

An example for 24V DC system architecture (control multiple groups)





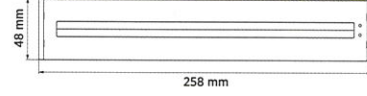
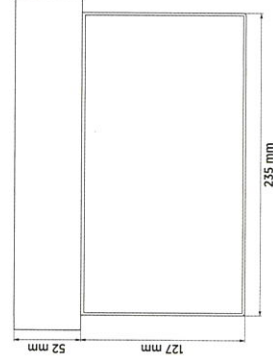
EML-414, EML-417



EML-414C, EML-417C

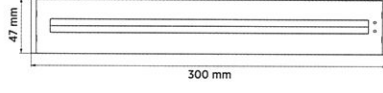
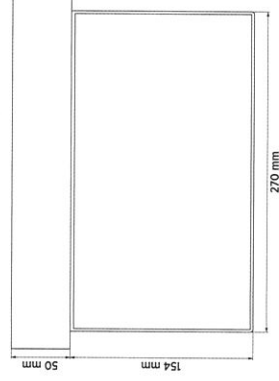
EML-417 EML-417C

24 meters visibility



EML-414 EML-414C

30 meters visibility



1W LED/ 50 000 h | IP42 protection | Polycarbonate body/white | Mounting: Hanging, sidewall or ceiling, recessed into the ceiling

High-quality double sided LED exit sign. It was designed mainly for buildings with high aesthetic requirements (hotels, business centres). The EML-414 and EML 417 luminaires suitable for types of mounting: to the ceiling, parallel to the sidewall and perpendicularly to the sidewall. The suspension accessories and recessed frame (EML-414C, EML-417C) are sold separately.

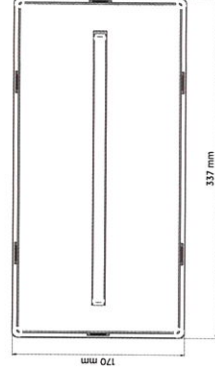
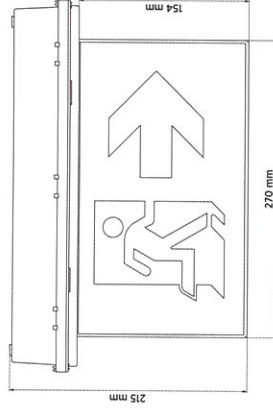


EML-6014



1W LED/ 50 000 h | IP65 protection | Polycarbonate body/white | Mounting: On ceiling | 30 meters visibility

Double sided exit sign. It can be mounted to the ceiling. Thanks to IP65 protection it is suitable in dry and wet locations (rest room, cellar, garage, outside, etc.)

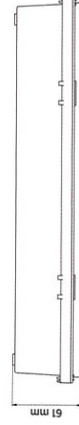
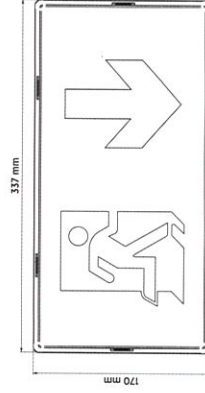


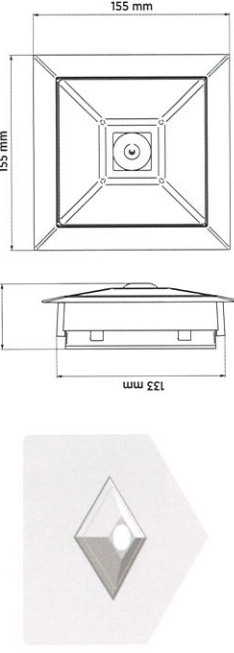
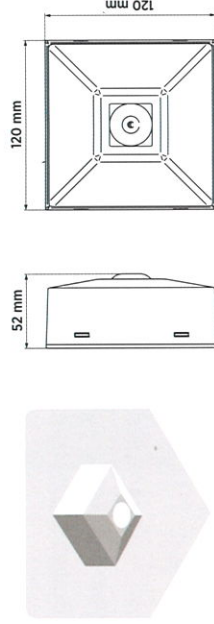
EML-6017



1W LED/ 50 000 h | IP65 protection | Polycarbonate body/white | Mounting: On sidewall | 30 meters visibility

IP65 rated stylish LED exit sign for sidewall. It is suitable for outdoor use and in wet locations as well (garage, rest room, cellar, etc.)





EML-313 R/F



EML-313C R/F

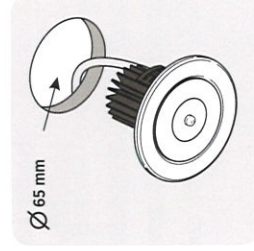
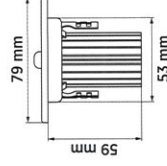


3W LED/ 50 000 h | IP20 protection | Polycarbonate body/black/white/grey | Mounting: On ceiling | 191 lm

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

3W LED/ 50 000 h | IP20 protection | Polycarbonate body/black/white/grey | Mounting: Recessed into the ceiling | 191 lm

LED safety light for the illumination of escape areas. Suitable for recessing into the ceiling. It can be ordered with round LED lens (RC) or with lens for corridors (C/F or C/R) according to our customers' needs.



EML-4014R



EML-4014F



4W LED/ 50 000 h | IP20 protection | Polycarbonate body/black/white/grey | Mounting: Recessed into the ceiling | 305 lm

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.

4W LED/ 50 000 h | IP20 protection | Polycarbonate body/black/white/grey | Mounting: Recessed into the ceiling | 465 lm

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.

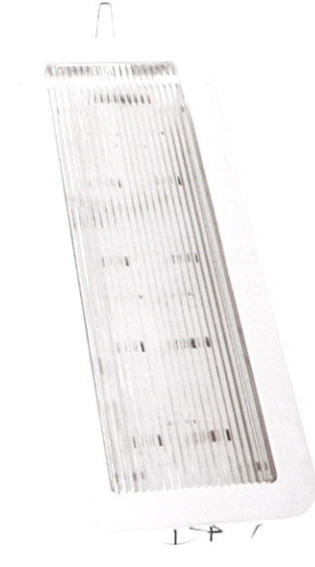
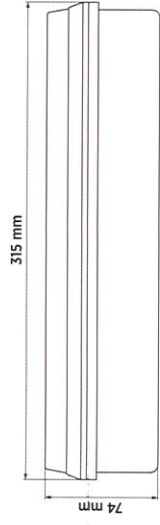
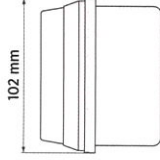
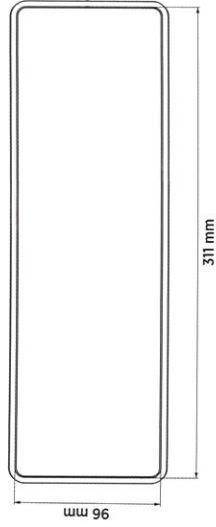


EML-616



6W LED/ 50 000 h | IP65 protection | Polycarbonate body/white | Mounting: On sidewall or ceiling

IP65 rated LED safety light for ceilings or sidewalls. It is suitable for industrial areas and for external use as well.

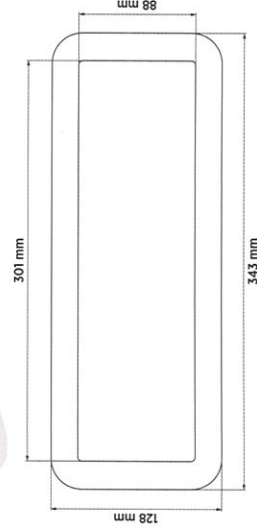


EML-816



6W LED/ 50 000 h | IP65 protection | Polycarbonate body/white | Mounting: Recessed into the sidewall or ceiling

IP65 rated LED safety light, can be mounted into suspended ceiling or sidewall made of plasterboard, or other stratified material. A great choice for external use and for industrial areas, since it is very well protected against dust and water.

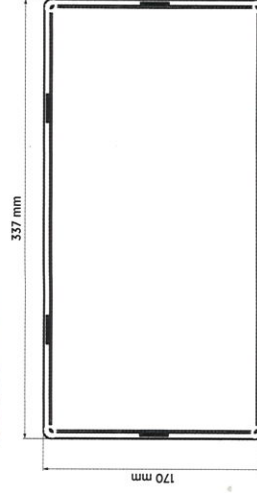


EML-6016



6W LED/ 50 000 h | IP65 protection | Polycarbonate body/white | Mounting: On sidewall

IP65 rated stylish LED safety light for sidewall or ceiling. It is suitable for outdoor use as well and in wet locations (garage, cellar, rest room, etc.)



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