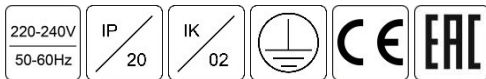


EMS MINI- EMERGENCY MONITORING SYSTEM

Product Group: Emergency Lighting



Description:

The EMS MINI system is a modern, compact solution designed for the monitoring of emergency luminaires with unique addresses installed in small-size buildings and facilities. The system offers the possibility to supervise up to 500 emergency luminaires equipped with EMS-type power supply sources. The main advantages of the EMS MINI control unit are its compact size and the possibility to mount it on a DIN-3 standard rail (TH35). The system is simplified but not deprived of the most important functionalities from the user's point of view. Each control unit is equipped with an RS485 connection for the communication bus, an RJ45 connector, four LEDs indicating the current status of the system, three function keys which can be programmed in the control unit, a reset button and a service pin to assign a unique IP address to the unit. Additionally, the control unit has two potential-free input contacts and two outputs. Communication with EMS emergency luminaires is provided by means of an RS485 standard communication bus. A single bus may not exceed 1200 m when linear topology is used. The communication with luminaires is continuous.

Features:

- Monitoring of up to 500 emergency luminaires
- Maximum length of each single bus line 1200m
- System status indicators
- TH35 (DIN-3) rail mounted
- Three programmable function keys
- Two potential-free inputs (current loops)
- Two outputs (to control external relays)
- Internal memory to store emergency lighting system reports, compliant with EN 50172
- Mains mode, configured from the control unit
- Testing of individual luminaires or groups of luminaires
- Internal battery for uninterruptible operation
- RJ45 connector for direct communication with any computer via Ethernet
- Individually programmable IP address
- System status preview using any web browser
- Continuous communication with luminaires installed in the system
- System management and visualization by using dedicated EMS smart software

**for safety reasons, the control unit communicates with luminaires continuously and has a built-in powers supply source. All EMS systems are manufactured in compliance with applicable European standards*

Lighting fittings working under the system have unique addresses and are connected to Emergency system control unit with a communication cable. The fittings communicate with the central unit reporting any abnormalities which are signaled on the central unit display with LED diodes placed on the central unit panel. Each fitting connected to the system may have an individual description in the control unit. When abnormalities, related to the operation of a fitting, occur, information about the type of abnormality and the location of the fitting appears on the display of the control unit. The system allows manual testing of a single fitting. Central unit's software allows dividing the fittings into groups which enables one to run tests only chosen groups of fittings. Apart from manual tests, the following auto-tests are carried out:

TEST A – a short test, recommended every 30 days (LST-EN 50172) – checks the following parameters:

- Enforcing emergency operation of the fitting for 5 minutes
- Control of battery power discharge
- Control of minimum voltage of battery

TEST B – a long test recommended every 360 days (LST-EN 50172) – checks the following parameters:

- Enforcing emergency operation of the fitting for the time programmed for each fitting (1, 2, 3 h)
- Control of battery power discharge
- Control of minimum voltage of battery
- Control of the condition of battery

The frequency of running tests A and B may be programmed according to the needs of the user. There is a possibility of programming the tests with exact dates, when they should be carried out. Long tests B should be run when the premises are not used within 24 hours after finishing the test. This time is needed for the recharging of the batteries discharged during the long test. Test results are stored in the memory of the central unit.

System components:



EMS address module

Features:

- Compatible with LED light sources
- Switching to emergency mode
- LiFePO₄ battery
- Battery charge indicator
- Luminaire status indicator



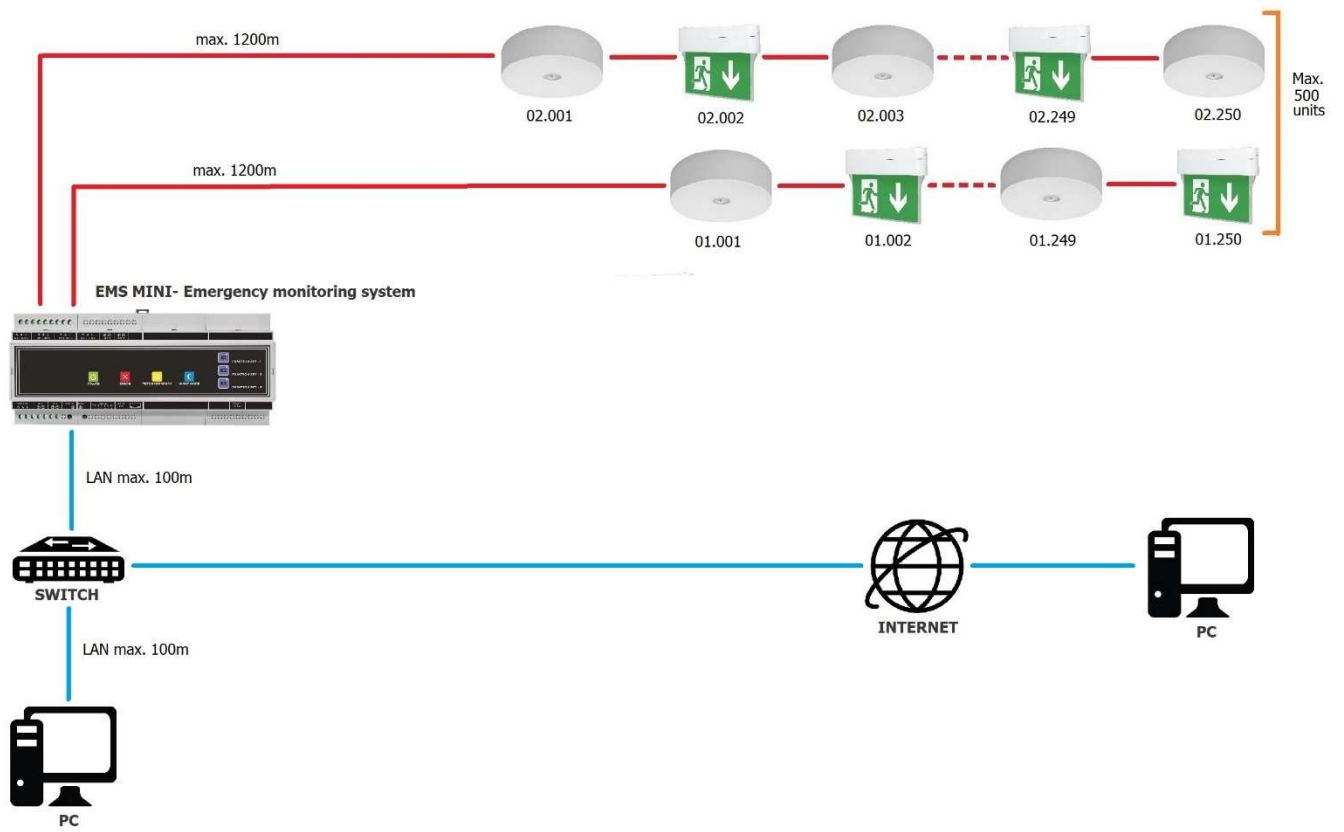
EMS smart platform

Features:

- System status monitoring
- System programming
- Event log viewing
- Test function
- Possibility to upload floor plans of the building/facility

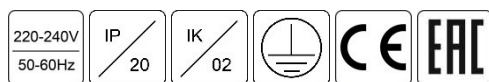
TECHNICAL DATA SHEET

System topology:



EMS- EMERGENCY MONITORING SYSTEM

Product Group: Emergency Lighting



Description:

The EMS system is the latest and the most advanced monitoring system designed to control independent luminaires of emergency and escape route lighting systems. It is designed to be used in medium-to-large facilities and buildings. Each control unit can handle up to 4,000 luminaires using MP-250 power submodules. The submodules communicate with the EMS control unit via LAN. The use of LAN also enables communication between individual submodules. The EMS system is equipped with a touch panel and an intuitive graphic menu to enable quick and easy system configuration without the need for using EMS smart platform. Thanks to introduced technical solutions polarity does not need to be observed any more while connecting a communication bus to the following system components:

- EMS control unit
- MP-250 power submodules
- EMS address modules

Each EMS address module is assigned an individual number/address. The addresses are factory-assigned, so an addressing unit is not required for installation, setting up or maintenance work. Communication with EMS emergency luminaires is provided by means of an RS485 standard communication bus. A single bus may not exceed 1200 m when linear topology is used. The communication with luminaires is continuous.

Features:

- Touch screen control unit
- Unique addresses of luminaires
- Factory-assigned module addresses
- No need for an addressing unit
- Intuitive graphical user interface
- No need to keep the polarity of communication cables connection
- Inbuilt four potential-free inputs and outputs
- Remote access via web browser
- Monitoring of up to 750 luminaires per control unit (3 logical buses: 01, 02 and 03 - each one with 2 physical channels)
- Possibility to expand the control system up to 4,000 luminaires by using additional external submodules
- System status indication
- Compatibility LED light sources
- Internal battery for uninterruptible operation
- Automatic performance of tests
- Event log
- Possibility to divide the luminaires for logic groups
- Mains mode for selected luminaires/groups
- System management and visualization using of dedicated EMS smart software
- BACnet standard, enabling compatibility of the EMS with Building Management Systems (BMS)

**for safety reasons, the control unit communicates with luminaires continuously and has a built-in powers supply source. All EMS systems are manufactured in compliance with applicable European standards*

Lighting fittings working under the system have unique addresses and are connected to Emergency system control unit with a communication cable. The fittings communicate with the central unit reporting any abnormalities which are signaled on the central unit display with LED diodes placed on the central unit panel. Each fitting connected to the system may have an individual description in the control unit. When abnormalities, related to the operation of a fitting, occur, information about the type of abnormality and the location of the fitting appears on the display of the control unit. The system allows manual testing of a single fitting. Central unit's software allows dividing the fittings into groups which enables one to run tests only chosen groups of fittings. Apart from manual tests, the following auto-tests are carried out:

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- Enforcing emergency operation of the fitting for the time programmed for each fitting (1, 2, 3h)
- Control of battery power discharge
- Control of minimum voltage of battery
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The frequency of running tests A and B may be programmed according to the needs of the user. There is a possibility of programming the tests with exact dates, when they should be carried out. Long tests B should be run when the premises are not used within 24 hours after finishing the test. This time is needed for the recharging of the batteries discharged during the long test. Test results are stored in the memory of the central unit.

System components:



MP-250 Power module

Features:

- Submodules mounted on a DIN-3 rail (TH35)
- Monitoring of up to 250 luminaires
- Ethernet connection for LAN communication
- Service pin and Reset button
- Freely programmable IP address
- Built-in uninterruptible power supply unit
- LED indicator of battery charging

TECHNICAL DATA SHEET



EMS address module

Features:

- Compatible with LED light sources
- Switching to emergency mode
- LiFePO₄ battery
- Battery charge indicator
- Luminaire status indicator

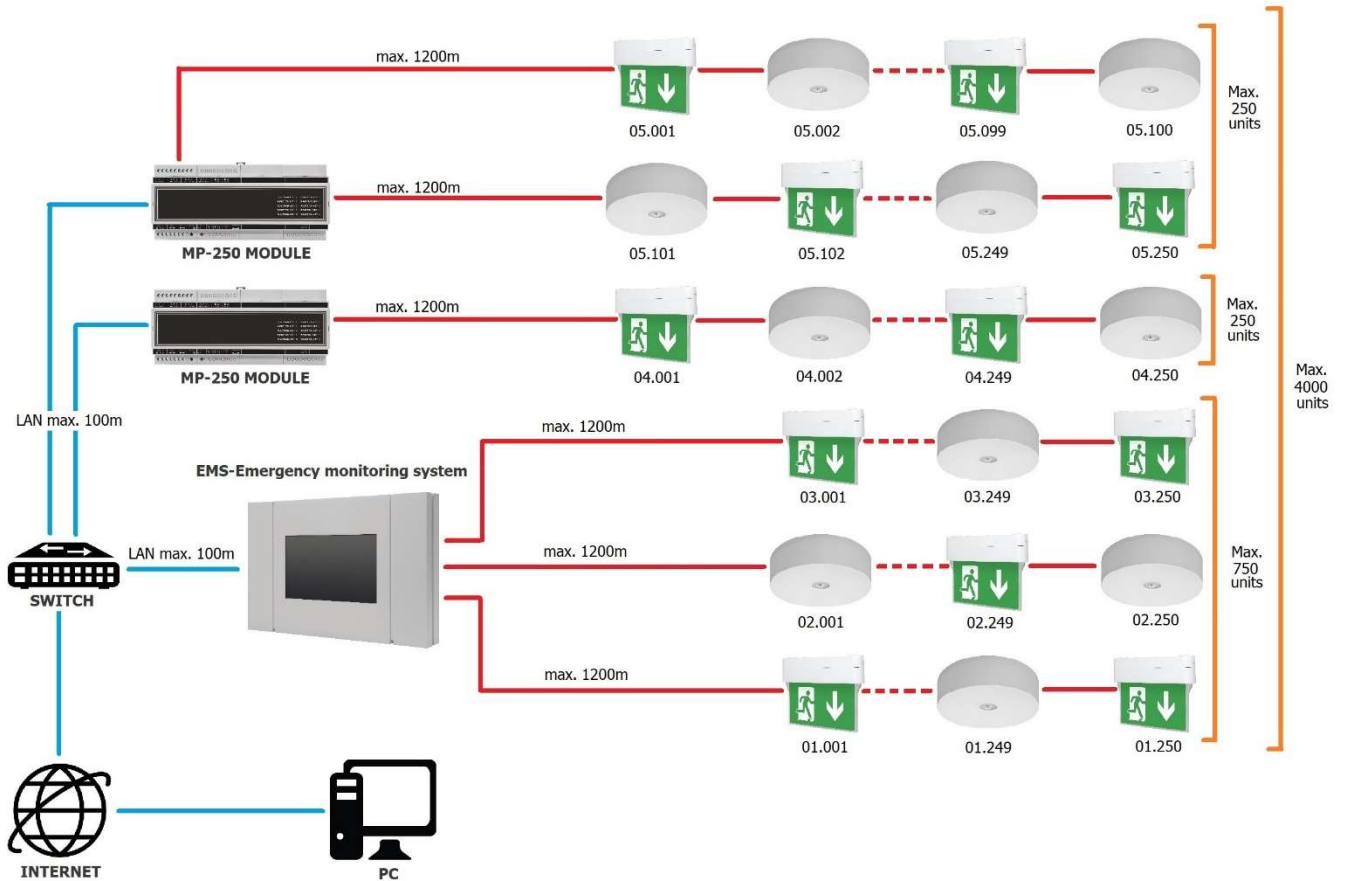


EMS smart platform

Features:

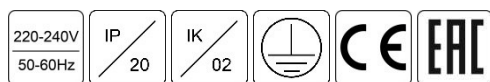
- System status monitoring
- System programming
- Event log viewing
- Test function
- Possibility to upload floor plans of the building/facility

System topology:



CEBLV- CENTRAL BATTERY LOW VOTAGE SYSTEM

Product Group: Emergency Lighting



Description:

Central battery system CEBLV is a high-tech device created to power and monitor emergency lighting in buildings of small and medium size and in closed fire zones. The system can work with up to 80 LED luminaires supplied by SELV 24V (Safety Extra-Low Voltage) and was designed in Smart technology.

The application of the SELV voltage ensures high level of safety of servicing of the system and its elements compliant with the currently valid regulations. Small dimensions of the central unit enable the installation of the system in places where one cannot fit a large-size central battery system. The CEBLV central unit is equipped with a big touch panel enabling both the current reading of the status of the system, circuits and fittings and the introduction of all settings and parameters of the system with the use of the user interface. Statuses are displayed in both graphic and text form. Using the central unit one can assign a name to the fitting that will clearly help to identify the fittings installed in the system. Using the central unit one can program and freely configure the emergency fittings in constant, non-constant, switching and switching-dimming modes as well as night work mode. The system has its own IP address and RJ45 slot which is used for direct connection to Ethernet. With a built-in WEB module, you can directly access the system from any computer and print the event log by using any web browser. Additionally, the system has an input and an SD card that allows to record and upload system settings (back-up) and the record reports of the Event Log in accordance with EN 50172.

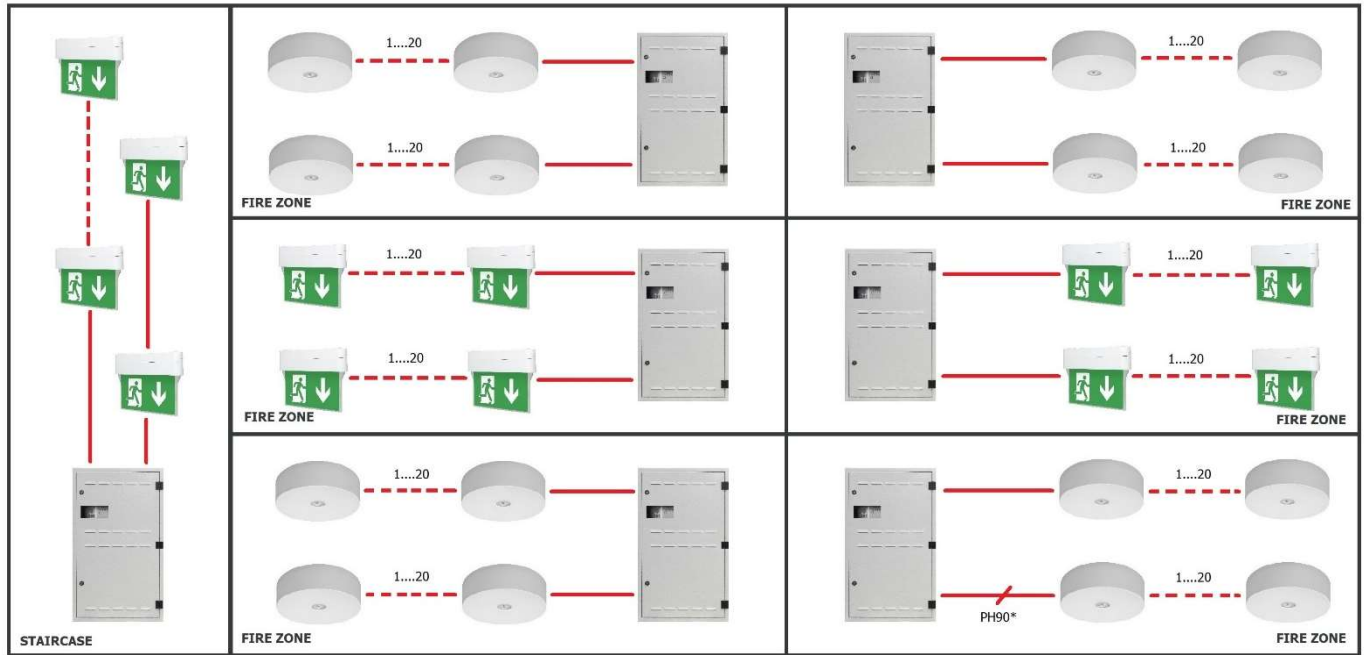
Features:

- Power supply and monitoring up to 80 individual LED fittings in CEBLV smart technology
- Safe supply SELV 24V
- Smart technology – any mode of a fitting
- Easy to read, big LCD touch screen
- Easy and intuitive menu with simple icons
- Automatic or manual activation of short or long tests of the whole system
- Automatic detection and adding of the fittings to the system
- Built-in WEB module
- Built-in clock and calendar with DST adjustment and synchronization with a time server
- Programming and configuration of the fittings directly from the system
- Assigning names to luminaires
- Assigning design addresses to luminaires
- Communication with luminaires through the power supply cable
- SD slot and SD card for recording, transmission and printing emergency lighting reports from any PC, in accordance with EN 50172
- Possibility to store the system settings (back – up) on SD card
- Contained security light mode (night operation)
- Possibility to control fittings and some functions of the system via terminals 24V and 230V
- Testing of each fitting separately as well as group of fittings
- Internal rechargeable battery with a designed life of 10 years
- RJ45 slot for direct connection to Ethernet
- Individual IP address
- Preview of the system via any web browser
- Works with any BMS (Building Management System) by using the module of potential-free contacts or a CAN-bus
- Unlimited grouping of systems and joint supervision by smart touch screen controller
- Control menu with language selection
- Management and visualization of the system using a dedicated CEBLV smart platform

**for safety reasons, the control unit communicates with luminaires continuously and has a built-in powers supply source. All EMS systems are manufactured in compliance with applicable European standards*

An CEBLV unit can be supplied from a 230V AC or a 216V DC power source. As a result, the unit can be connected to a central battery system as a substation without installing internal batteries. This functionality enables the system to be used in facilities where a central battery system is required, but a safe voltage must also be ensured in areas where there is a risk of electric shock.

CEBLV topology:



**national regulations apply*

Decentralized system:

- Main station failure
- Cable failure: main station – substation
- Damaged insulation of the branch circuit

No central system
Each system is independent; the failure is limited to one fire zone
Negligible fire hazard (SELV)

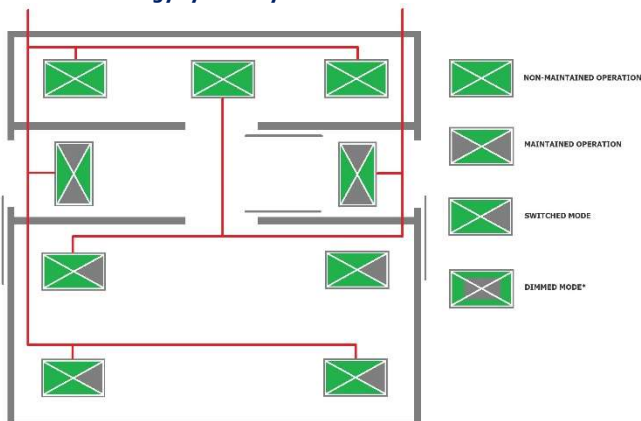
SMART- switching method and revision technology

A conventional installation requires that the operating mode of each circuit is specified at the design stage. Subsequent modifications or errors may cause extra costs. In order to eliminate such drawbacks, NORTHCLIFFE has introduced a new technology with automatic monitoring and individual control of each luminaire in a system.

Switching Method And Revision Technology

or SMART for short. This technology enables installation of luminaires- in a common circuit- operating in four modes: continuous, intermittent, switched and dimmed. Programming and monitoring of the luminaires are provided via power supply cables. The applied technology does not require the use of special communication cables. It can be implemented if appropriate address modules are installed in the luminaires. The modules are fitted as standard in all luminaires designed to work within an CEBLV central battery system. Each address module is assigned a unique address which enables its accurate identification in the system.

A SMART technology system layout:



** CEBLV systems only*

SMART advantages:

- Luminaires operating in different modes can be installed within a single circuit
- Less cable is required
- Smaller number of circuits
- Lower installation costs
- Operating modes of the luminaires can be changed at any time

TECHNICAL DATA SHEET

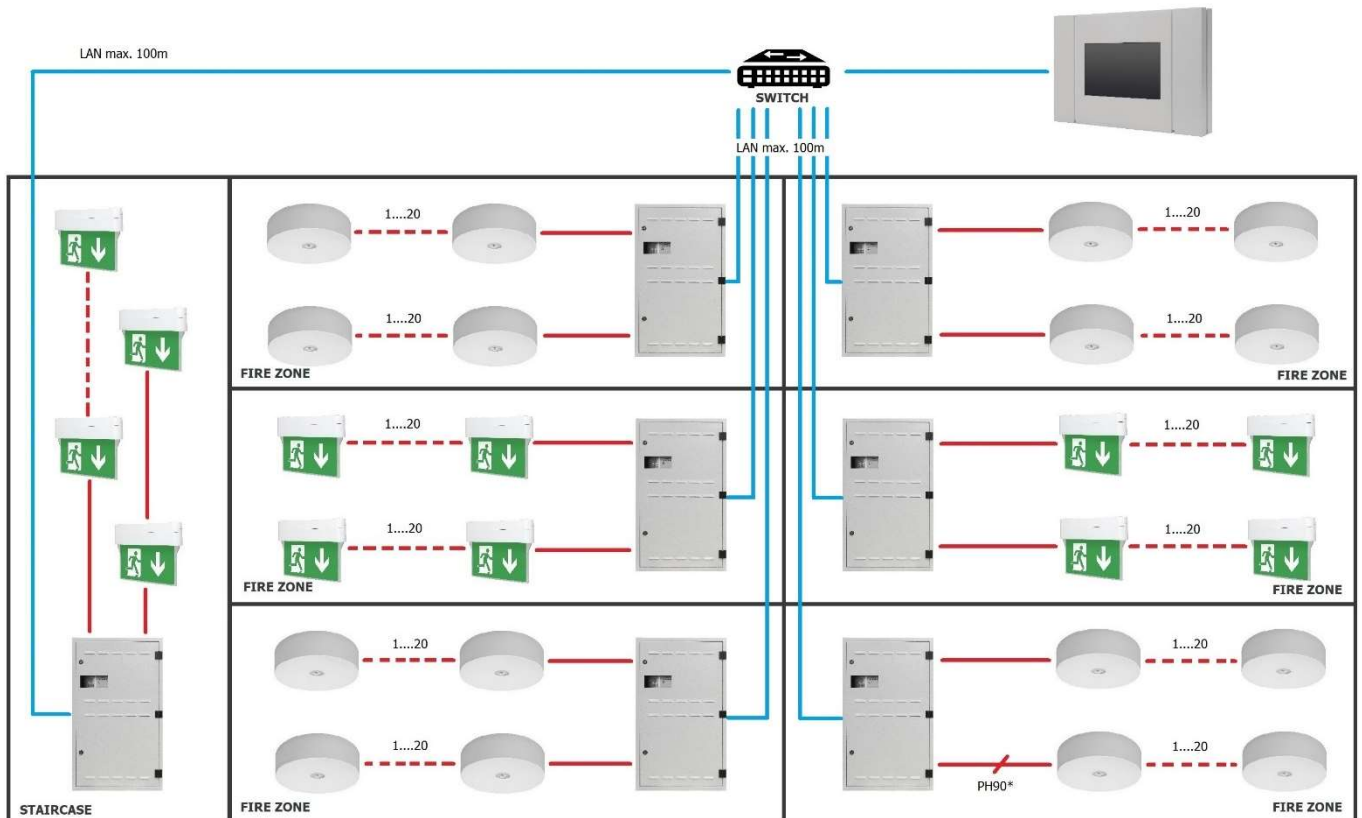
SMART touch controller

The SMART touch controller enables remote control and monitoring of any number of units from a single location. The controller provides remote monitoring, configuration and reading of events for each connected CEBLV unit.

Features:

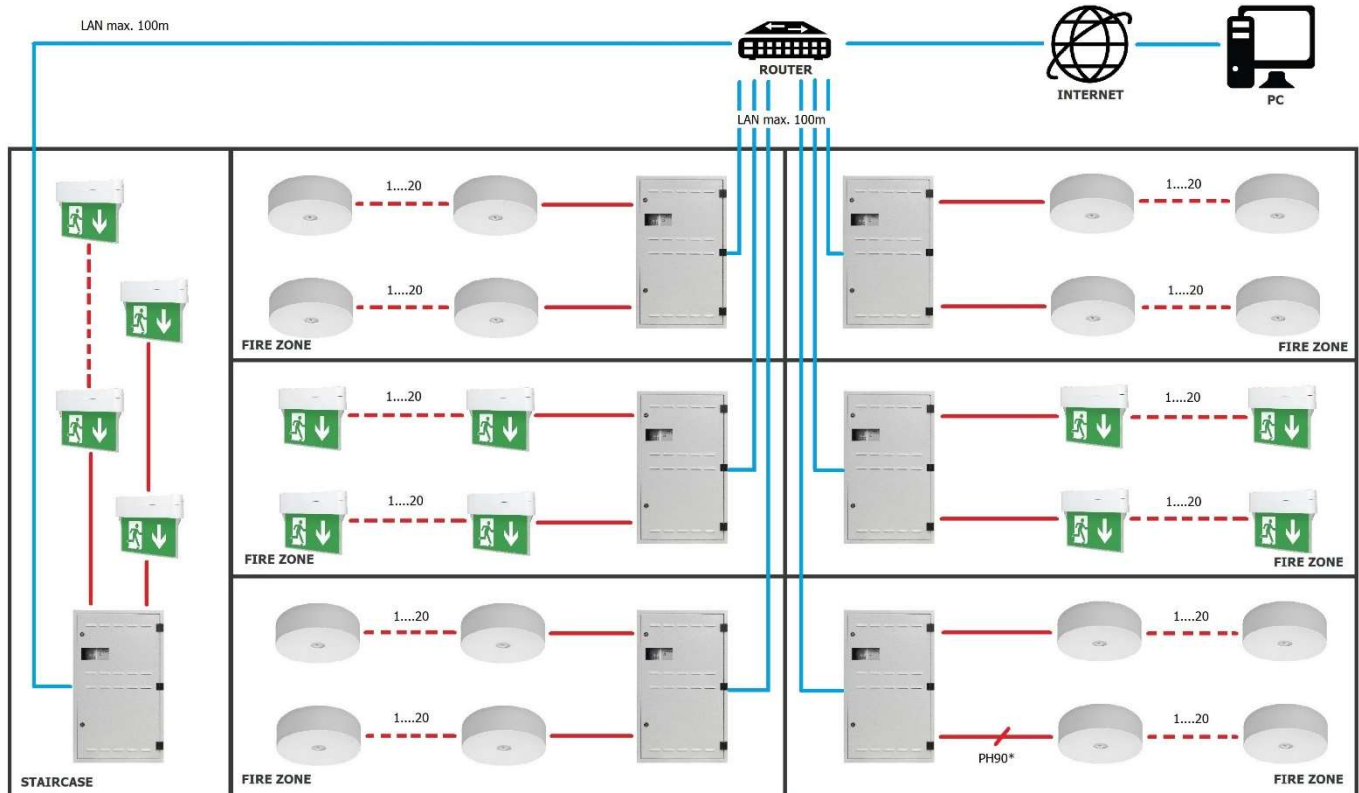
- Functional test/Battery test activation for each device
- Global system locking/unlocking
- Password-protected access to the controller
- Checking the status of individual systems
- Full remote configuration of all systems
- Active list of systems enabling quick status checks
- Four globally configured inputs and outputs
- Standard fitted Ethernet interface to enable remote control and visualization of the system via a web browser

CEBLV with SMART touch controller topology:







The CEBLV system is equipped with an Ethernet port as standard. The connection enables remote checking of the status and setting up of the system via FIRE ZONE a dedicated website. This solution provides the user with the ability to control and monitor the system from a computer with a web browser installed. To check the system status using a computer, the user only needs to log in to the structural network of the facility or building where the CEBLV is installed. Each unit, circuit and luminaire can be monitored via the Internet. The access to the dedicated website is password protected.

CEBLV remote control topology:



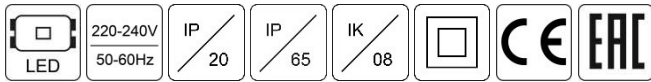
List of cabinets:

Technical specifications	FZLV – 12 Ah	FZLV – 24 Ah	FZLV MAX – 33 Ah	FZLV MAX – 52 Ah
Protection class: I				
Ingress protection: IP20 DC				
Voltage: 24 V ± 30%				
Operating temperature range: -5°C to 30°C				
Supply voltage:	AC: 1-phase 230V ± 10%, 50/60Hz or DC: 216V ± 20%	AC: 1-phase 230V ± 10%, 50/60Hz or DC: 216V ± 20%	AC: 1-phase 230V ± 10%, 50/60Hz or DC: 216V ± 20%	AC: 1-phase 230V ± 10%, 50/60Hz or DC: 216V ± 20%
Battery capacity:	12Ah	24Ah	33Ah	52Ah
Max. power output:				
1h	123W	219W	304W	304W
2h	70W	142W	195W	301W
3h	49W	102W	140W	219W
8h	21W	47W	66W	106W
Number of circuits:	4	4	4	4
Maximum circuit load:	76W	76W	76W	76W
Cable connection- max. wire size, mm ² :				
Power supply:	2,5	2,5	2,5	2,5
Circuit:	2,5	2,5	2,5	2,5
RS485 bus:	2,5	2,5	2,5	2,5
24V power out:	2,5	2,5	2,5	2,5
Switch monitoring:	2,5	2,5	2,5	2,5
Potential free input:	2,5	2,5	2,5	2,5
Signal out:	2,5	2,5	2,5	2,5
Cable glands:	9 x M20 6 x M16	9 x M20 6 x M16	1 x M25 9 x M20 6 x M16	1 x M25 9 x M20 6 x M16
Weight, kg:	15,5 kg	24,3 kg	39,2 kg	48,3 kg
Dimensions, mm:	472x266x140	639x266x140	800x400x170	800x400x170

Maximum power of the circuit, W	Cross-section, mm ²	Length, m
24 W	1,5	142
	2,5	236
48 W	1,5	71
	2,5	118
72 W	1,5	48
	2,5	79

ARA R LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A recessed LED emergency escape luminaire with latest optics designed to illuminate escape routes or open areas
 Optics: LER- escape route, LOA- open areas
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Electronic gear and battery package installed in a separate box
 Deep discharge protection
 The extremely effective optics reflected in the very large mounting distances between the luminaires:
 up to 38m along the escape routes;
 up to 26m in the open areas;
 that effects significantly on reduction of the number of needed emergency luminaires and, consequently, the costs of installation and subsequent maintenance

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP20 or IP65/20
 Mechanical impact resistance: IK08

Installation:

Suitable for plasterboard or similar type of ceiling, requires a cut-out Ø83mm and under-ceiling height >150mm. Push-in terminal, 3x2x2.5mm²

Environment:

Indoor

Application:

Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI*	CCT, K*	Weight, kg
Ara R 1HLED C364 LER	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LER	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LER	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LER	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R 1HLED C364 LER AUT	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LER AUT	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LER AUT	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LER AUT	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R CELED C368 LER	100	100	37	CEB	x	1	80+	6500	0,60
Ara R 1HLED C364 LOA	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LOA	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LOA	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LOA	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R 1HLED C364 LOA AUT	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LOA AUT	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LOA AUT	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LOA AUT	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R CELED C368 LOA	100	100	37	CEB	x	1	80+	6500	0,60

TECHNICAL DATA SHEET

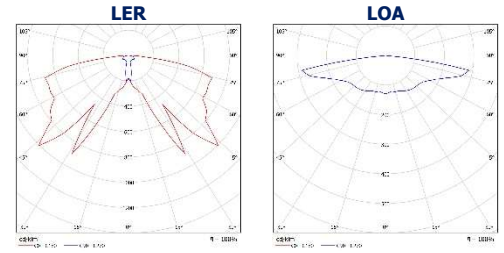
Ara R 1HLED C364 LER IP65	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LER IP65	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LER IP65	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LER IP65	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R 1HLED C364 LER IP65 AUT	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LER IP65 AUT	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LER IP65 AUT	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LER IP65 AUT	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R CEBLED C368 LER IP65	100	100	37	CEB	x	1	80+	6500	0,60
Ara R 1HLED C364 LOA IP65	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LOA IP65	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LOA IP65	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LOA IP65	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R 1HLED C364 LOA IP65 AUT	100	100	37	NM	1	1	80+	6500	0,60
Ara R 3HLED C365 LOA IP65 AUT	100	100	37	NM	3	1	80+	6500	0,65
Ara R 1PLED C366 LOA IP65 AUT	100	100	37	M/NM	1	1	80+	6500	0,60
Ara R 3PLED C367 LOA IP65 AUT	100	100	37	M/NM	3	1	80+	6500	0,65
Ara R CEBLED C368 LOA IP65	100	100	37	CEB	x	1	80+	6500	0,60
Ara R 1HLED C369 LER	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LER	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LER	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LER	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R 1HLED C369 LER AUT	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LER AUT	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LER AUT	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LER AUT	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R CEBLED C373 LER	100	100	37	CEB	x	3	80+	6500	0,60
Ara R 1HLED C369 LOA	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LOA	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LOA	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LOA	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R 1HLED C369 LOA AUT	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LOA AUT	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LOA AUT	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LOA AUT	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R CEBLED C373 LOA	100	100	37	CEB	x	3	80+	6500	0,60
Ara R 1HLED C369 LER IP65	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LER IP65	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LER IP65	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LER IP65	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R 1HLED C369 LER IP65 AUT	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LER IP65 AUT	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LER IP65 AUT	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LER IP65 AUT	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R CEBLED C373 LER IP65	100	100	37	CEB	x	3	80+	6500	0,60
Ara R 1HLED C369 LOA IP65	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LOA IP65	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LOA IP65	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LOA IP65	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R 1HLED C369 LOA IP65 AUT	100	100	37	NM	1	3	80+	6500	0,65
Ara R 3HLED C370 LOA IP65 AUT	100	100	37	NM	3	3	80+	6500	0,65
Ara R 1PLED C371 LOA IP65 AUT	100	100	37	M/NM	1	3	80+	6500	0,65
Ara R 3PLED C372 LOA IP65 AUT	100	100	37	M/NM	3	3	80+	6500	0,65
Ara R CEBLED C373 LOA IP65	100	100	37	CEB	x	3	80+	6500	0,60
Ara R 1HLED C374 LOA	100	100	37	NM	1	6	80+	6500	0,75
Ara R 3HLED C375 LOA	100	100	37	NM	3	6	80+	6500	1,10
Ara R 1PLED C376 LOA	100	100	37	M/NM	1	6	80+	6500	0,75
Ara R 3PLED C377 LOA	100	100	37	M/NM	3	6	80+	6500	1,10
Ara R 1HLED C374 LOA AUT	100	100	37	NM	1	6	80+	6500	0,75
Ara R 3HLED C375 LOA AUT	100	100	37	NM	3	6	80+	6500	1,10
Ara R 1PLED C376 LOA AUT	100	100	37	M/NM	1	6	80+	6500	0,75
Ara R 3PLED C377 LOA AUT	100	100	37	M/NM	3	6	80+	6500	1,10
Ara R CEBLED C378 LOA	100	100	37	CEB	x	6	80+	6500	0,75
Ara R 1HLED C374 LOA IP65	100	100	37	NM	1	6	80+	6500	0,75
Ara R 3HLED C375 LOA IP65	100	100	37	NM	3	6	80+	6500	1,10
Ara R 1PLED C376 LOA IP65	100	100	37	M/NM	1	6	80+	6500	0,75
Ara R 3PLED C377 LOA IP65	100	100	37	M/NM	3	6	80+	6500	1,10
Ara R 1HLED C374 LOA IP65 AUT	100	100	37	NM	1	6	80+	6500	0,75
Ara R 3HLED C375 LOA IP65 AUT	100	100	37	NM	3	6	80+	6500	1,10
Ara R 1PLED C376 LOA IP65 AUT	100	100	37	M/NM	1	6	80+	6500	0,75
Ara R 3PLED C377 LOA IP65 AUT	100	100	37	M/NM	3	6	80+	6500	1,10
Ara R CEBLED C378 LOA IP65	100	100	37	CEB	x	6	80+	6500	0,75

Note: M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

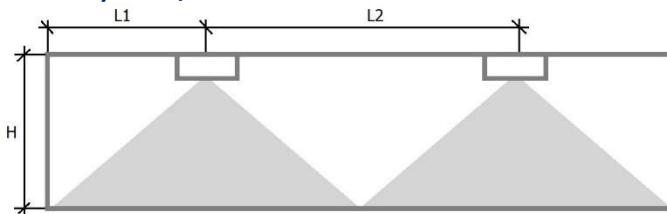
TECHNICAL DATA SHEET

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- IP65 IP65/20 ingress protection for recessed version
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body
- LER Optic for escape route
- LOA Optic for open areas
- LOU Optic for mixed areas/universal
- LOS Optic with asymmetric beam



Photometry of LOA/LER



L1- distance from the wall to the first fixture
L2- distance between fixtures
H- height of the ceiling

LER optic for corridor route illumination:

LER- 1W/160lm min. 1lx		
H, m	L1, m	L2, m
2,50	5,5	15,0
3,00	5,5	16,0
3,50	6,0	16,5
4,00	6,5	17,0
4,50	6,0	16,5
5,00	6,0	16,5
6,00	5,5	14,0

LER- 3W/370lm min. 1lx		
H, m	L1, m	L2, m
2,50	8,0	19,0
3,00	8,0	20,5
3,50	8,5	21,5
4,00	9,0	23,0
4,50	9,5	24,0
5,00	10,0	25,0
6,00	10,5	26,5
7,00	10,5	28,0
8,00	10,0	27,5

LER- 6W/600lm min. 1lx		
H, m	L1, m	L2, m
2,50	10,0	23,0
3,00	10,5	25,5
3,50	11,0	27,0
4,00	11,5	29,0
4,50	12,0	30,0
5,00	12,0	31,0
6,00	12,5	32,0
7,00	13,5	35,0
8,00	14,0	36,0
9,00	14,5	37,0
10,00	14,5	38,0

LOA optic for open area illumination:

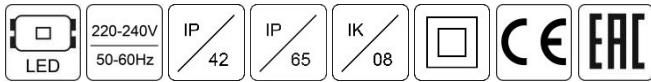
LOA- 1W/145lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	2,5	13,5
3,00	2,0	13,5
3,50	2,0	13,5
4,00	2,0	13,0
4,50	1,5	12,5
5,00	1,5	12,5
6,00	1,5	12,0

LOA- 3W/375lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	6,5	17,0
3,00	6,5	18,0
3,50	6,5	20,0
4,00	5,5	21,5
4,50	5,0	22,5
5,00	4,0	23,0
6,00	4,0	22,5
7,00	4,0	22,0
8,00	3,0	21,0

LOA- 6W/615lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	6,0	19,5
3,00	6,0	20,0
3,50	6,5	22,0
4,00	6,0	23,0
4,50	5,5	24,0
5,00	5,0	25,0
6,00	4,0	26,0
7,00	4,0	26,5
8,00	4,0	26,5
9,00	4,0	26,5
10,00	2,5	26,0

ARA S LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A surface LED emergency escape luminaire with latest optics designed to illuminate escape routes or open areas. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C
 Optics: LER- escape route, LOA- open areas
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO4 optional: AUT)
 Deep discharge protection
 The extremely effective optics reflected in the very large mounting distances between the luminaires:
 up to 37m along the escape routes;
 up to 26,5m in the open areas;
 that effects significantly on reduction of the number of needed emergency luminaires and, consequently, the costs of installation and subsequent maintenance

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional)
 Protection class IEC: II
 Ingress protection code: IP42 or IP65
 Mechanical impact resistance: IK08

Installation:

Designed to be fixed onto ceiling or walls of any type. Push-in terminal, 3x2x2.5mm2

Environment:

Indoor

Application:

Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI*	CCT, K*	Weight, kg
Ara S 1HLED C379 LER	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LER	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LER	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LER	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S 1HLED C379 LER AUT	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LER AUT	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LER AUT	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LER AUT	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S CEBLED C383 LER	202	202	58	CEB	x	1	80+	6500	1,35
Ara S 1HLED C379 LOA	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LOA	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LOA	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LOA	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S 1HLED C379 LOA AUT	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LOA AUT	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LOA AUT	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LOA AUT	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S CEBLED C383 LOA	202	202	58	CEB	x	1	80+	6500	1,35

TECHNICAL DATA SHEET

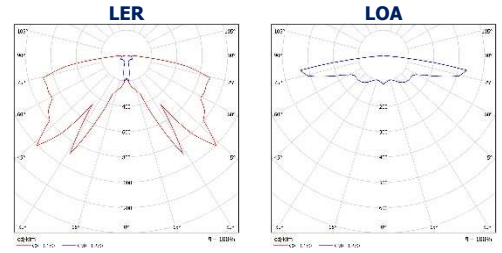
Ara S 1HLED C379 LER IP65	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LER IP65	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LER IP65	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LER IP65	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S 1HLED C379 LER IP65 AUT	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LER IP65 AUT	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LER IP65 AUT	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LER IP65 AUT	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S CBLED C383 LER IP65	202	202	58	CEB	x	1	80+	6500	1,35
Ara S 1HLED C379 LOA IP65	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LOA IP65	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LOA IP65	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LOA IP65	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S 1HLED C379 LOA IP65 AUT	202	202	58	NM	1	1	80+	6500	1,35
Ara S 3HLED C380 LOA IP65 AUT	202	202	58	NM	3	1	80+	6500	1,40
Ara S 1PLED C381 LOA IP65 AUT	202	202	58	M/NM	1	1	80+	6500	1,35
Ara S 3PLED C382 LOA IP65 AUT	202	202	58	M/NM	3	1	80+	6500	1,40
Ara S CBLED C383 LOA IP65	202	202	58	CEB	x	1	80+	6500	1,35
Ara S 1HLED C384 LER	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LER	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LER	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LER	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S 1HLED C384 LER AUT	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LER AUT	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LER AUT	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LER AUT	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S CBLED C388 LER	202	202	58	CEB	x	3	80+	6500	1,35
Ara S 1HLED C384 LOA	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LOA	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LOA	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LOA	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S 1HLED C384 LOA AUT	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LOA AUT	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LOA AUT	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LOA AUT	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S CBLED C388 LOA	202	202	58	CEB	x	3	80+	6500	1,35
Ara S 1HLED C384 LER IP65	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LER IP65	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LER IP65	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LER IP65	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S 1HLED C384 LER IP65 AUT	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LER IP65 AUT	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LER IP65 AUT	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LER IP65 AUT	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S CBLED C388 LER IP65	202	202	58	CEB	x	3	80+	6500	1,35
Ara S 1HLED C384 LOA IP65	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LOA IP65	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LOA IP65	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LOA IP65	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S 1HLED C384 LOA IP65 AUT	202	202	58	NM	1	3	80+	6500	1,35
Ara S 3HLED C385 LOA IP65 AUT	202	202	58	NM	3	3	80+	6500	1,50
Ara S 1PLED C386 LOA IP65 AUT	202	202	58	M/NM	1	3	80+	6500	1,35
Ara S 3PLED C387 LOA IP65 AUT	202	202	58	M/NM	3	3	80+	6500	1,50
Ara S CBLED C388 LOA IP65	202	202	58	CEB	x	3	80+	6500	1,35
Ara S 1HLED C389 LOA	202	202	58	NM	1	6	80+	6500	1,50
Ara S 3HLED C390 LOA	202	202	58	NM	3	6	80+	6500	1,75
Ara S 1PLED C391 LOA	202	202	58	M/NM	1	6	80+	6500	1,50
Ara S 3PLED C392 LOA	202	202	58	M/NM	3	6	80+	6500	1,75
Ara S 1HLED C389 LOA AUT	202	202	58	NM	1	6	80+	6500	1,50
Ara S 3HLED C390 LOA AUT	202	202	58	NM	3	6	80+	6500	1,75
Ara S 1PLED C391 LOA AUT	202	202	58	M/NM	1	6	80+	6500	1,50
Ara S 3PLED C392 LOA AUT	202	202	58	M/NM	3	6	80+	6500	1,75
Ara S CBLED C393 LOA	202	202	58	CEB	x	6	80+	6500	1,50
Ara S 1HLED C389 LOA IP65	202	202	58	NM	1	6	80+	6500	1,50
Ara S 3HLED C390 LOA IP65	202	202	58	NM	3	6	80+	6500	1,75
Ara S 1PLED C391 LOA IP65	202	202	58	M/NM	1	6	80+	6500	1,50
Ara S 3PLED C392 LOA IP65	202	202	58	M/NM	3	6	80+	6500	1,75
Ara S 1HLED C389 LOA IP65 AUT	202	202	58	NM	1	6	80+	6500	1,50
Ara S 3HLED C390 LOA IP65 AUT	202	202	58	NM	3	6	80+	6500	1,75
Ara S 1PLED C391 LOA IP65 AUT	202	202	58	M/NM	1	6	80+	6500	1,50
Ara S 3PLED C392 LOA IP65 AUT	202	202	58	M/NM	3	6	80+	6500	1,75
Ara S CBLED C393 LOA IP65	202	202	58	CEB	x	6	80+	6500	1,50

Note: M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

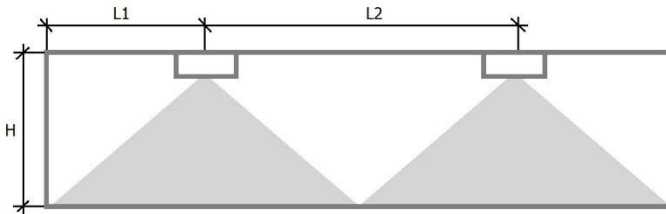
TECHNICAL DATA SHEET

Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
IP65	IP65 ingress protection for surface version
tmin-25	Suitable for low temperatures with ta -25...+40°C
LGREY	Light grey thermoplastic body
BLACK	Black thermoplastic body
LER	Optic for escape route
LOA	Optic for open areas
LOU	Optic for mixed areas/universal
LOS	Optic with asymmetric beam



Photometry of LOA/LER



L1- distance from the wall to the first fixture
L2- distance between fixtures
H- height of the ceiling

LER optic for corridor route illumination:

LER- 1W/150lm min. 1lx		
H, m	L1, m	L2, m
2,50	5,5	15,0
3,00	5,5	16,0
3,50	6,0	16,0
4,00	6,0	16,5
4,50	5,5	16,0
5,00	5,0	16,0
6,00	5,0	13,0

LER- 3W/360lm min. 1lx		
H, m	L1, m	L2, m
2,50	8,0	19,0
3,00	8,0	20,0
3,50	8,5	21,0
4,00	9,0	22,5
4,50	9,5	24,0
5,00	10,0	25,0
6,00	10,5	26,0
7,00	10,0	27,0
8,00	9,5	27,0
9,00	9,0	21,0
10,00	8,5	17,0

LER- 6W/600lm min. 1lx		
H, m	L1, m	L2, m
2,50	10,0	23,0
3,00	10,5	25,0
3,50	11,0	27,0
4,00	11,0	28,5
4,50	11,5	29,5
5,00	12,0	30,5
6,00	12,5	32,0
7,00	12,5	34,0
8,00	13,0	35,0
9,00	13,0	36,0
10,00	12,5	37,0

LOA optic for open area illumination:

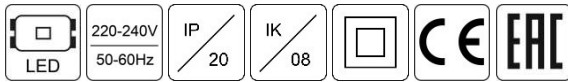
LOA- 1W/145lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	2,5	14,0
3,00	2,0	13,5
3,50	2,0	13,5
4,00	2,0	13,0
4,50	1,5	12,5
5,00	1,5	12,5
6,00	1,5	12,0

LOA- 3W/350lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	5,0	17,5
3,00	4,5	17,5
3,50	4,0	19,0
4,00	3,5	19,0
4,50	3,0	20,0
5,00	3,0	20,0
6,00	2,0	20,0
7,00	2,0	20,0
8,00	2,0	19,0

LOA- 6W/615lm min. 0,5lx		
H, m	L1, m	L2, m
2,50	6,0	19,5
3,00	6,0	20,0
3,50	6,5	22,0
4,00	6,0	23,0
4,50	5,5	24,0
5,00	5,0	25,0
6,00	4,0	26,0
7,00	4,0	26,5
8,00	4,0	26,5
9,00	4,0	26,5
10,00	2,5	26,0

CORRIDOR R LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A recessed LED emergency escape luminaire with latest optics designed to illuminate escape routes or open areas
 Optics: LER- escape route, LOA- open areas
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Electronic gear and battery package installed in a separate box
 Deep discharge protection
 The extremely effective optics reflected in the very large assembling distances between the luminaires:
 up to 28m along the escape routes;
 up to 19,5m in the open areas;
 that effects significantly on reduction of the number of needed emergency luminaires and, consequently, the costs of installation and subsequent maintenance

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP20
 Mechanical impact resistance: IK08

Installation:

Suitable for plasterboard or similar type of ceiling, requires a cut-out Ø83mm and under-ceiling height >150mm. Push-in terminal, 3x2x2.5mm²

Environment:

Indoor

Application:

Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI*	CCT, K*	Weight, kg
Corridor R 1HLED U22 LER	95	95	48	NM	1	1	80+	6500	0,60
Corridor R 3HLED U24 LER	95	95	48	NM	3	1	80+	6500	0,65
Corridor R 1PLED U25 LER	95	95	48	M/NM	1	1	80+	6500	0,60
Corridor R 3PLED U27 LER	95	95	48	M/NM	3	1	80+	6500	0,65
Corridor R 1HLED U22 LER AUT	95	95	48	NM	1	1	80+	6500	0,60
Corridor R 3HLED U24 LER AUT	95	95	48	NM	3	1	80+	6500	0,65
Corridor R 1PLED U25 LER AUT	95	95	48	M/NM	1	1	80+	6500	0,60
Corridor R 3PLED U27 LER AUT	95	95	48	M/NM	3	1	80+	6500	0,65
Corridor R CBLED C319 LER	95	95	48	CEB	set	1	80+	6500	0,60
Corridor R 1HLED U22 LOA	95	95	48	NM	1	1	80+	6500	0,60
Corridor R 3HLED U24 LOA	95	95	48	NM	3	1	80+	6500	0,65
Corridor R 1PLED U25 LOA	95	95	48	M/NM	1	1	80+	6500	0,60
Corridor R 3PLED U27 LOA	95	95	48	M/NM	3	1	80+	6500	0,65
Corridor R 1HLED U22 LOA AUT	95	95	48	NM	1	1	80+	6500	0,60
Corridor R 3HLED U24 LOA AUT	95	95	48	NM	3	1	80+	6500	0,65
Corridor R 1PLED U25 LOA AUT	95	95	48	M/NM	1	1	80+	6500	0,60
Corridor R 3PLED U27 LOA AUT	95	95	48	M/NM	3	1	80+	6500	0,65
Corridor R CBLED C319 LOA	95	95	48	CEB	set	1	80+	6500	0,60

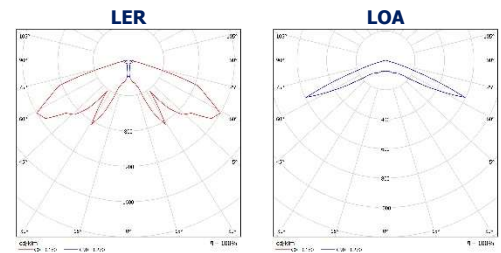
TECHNICAL DATA SHEET

Corridor R 1HLED J07 LER	95	95	48	NM	1	3	80+	6500	0,65
Corridor R 3HLED J09 LER	95	95	48	NM	3	3	80+	6500	0,70
Corridor R 1PLED J10 LER	95	95	48	M/NM	1	3	80+	6500	0,65
Corridor R 3PLED J12 LER	95	95	48	M/NM	3	3	80+	6500	0,70
Corridor R 1HLED J07 LER AUT	95	95	48	NM	1	3	80+	6500	0,65
Corridor R 3HLED J09 LER AUT	95	95	48	NM	3	3	80+	6500	0,70
Corridor R 1PLED J10 LER AUT	95	95	48	M/NM	1	3	80+	6500	0,65
Corridor R 3PLED J12 LER AUT	95	95	48	M/NM	3	3	80+	6500	0,70
Corridor R CBLED C320 LER	95	95	48	CEB	set	3	80+	6500	0,65
Corridor R 1HLED J07 LOA	95	95	48	NM	1	3	80+	6500	0,65
Corridor R 3HLED J09 LOA	95	95	48	NM	3	3	80+	6500	0,70
Corridor R 1PLED J10 LOA	95	95	48	M/NM	1	3	80+	6500	0,65
Corridor R 3PLED J12 LOA	95	95	48	M/NM	3	3	80+	6500	0,70
Corridor R 1HLED J07 LOA AUT	95	95	48	NM	1	3	80+	6500	0,65
Corridor R 3HLED J09 LOA AUT	95	95	48	NM	3	3	80+	6500	0,70
Corridor R 1PLED J10 LOA AUT	95	95	48	M/NM	1	3	80+	6500	0,65
Corridor R 3PLED J12 LOA AUT	95	95	48	M/NM	3	3	80+	6500	0,70
Corridor R CBLED C320 LOA	95	95	48	CEB	set	3	80+	6500	0,65

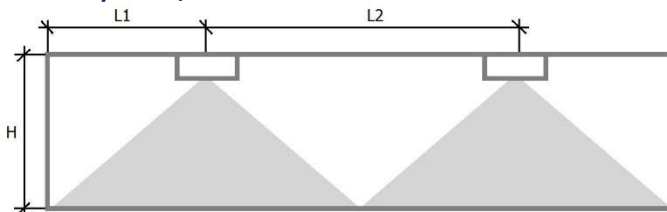
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
LGREY	Light grey thermoplastic body
BLACK	Black thermoplastic body
LER	Optic for escape route
LOA	Optic for open areas
LOU	Optic for mixed areas/universal
LOS	Optic with asymmetric beam



Photometry of LOA/LER



L1- distance from the wall to the first fixture
L2- distance between fixtures
H- height of the ceiling

LER optic for corridor route illumination:

LER- 1W/150lm min. 1lx

H, m	L1, m	L2, m
2,50	6,0	14,5
3,00	6,5	16,0
3,50	6,5	17,0
4,00	7,0	17,5
4,50	7,0	18,0
5,00	7,0	17,5
6,00	6,5	15,0

LER- 3W/350lm min. 1lx

H, m	L1, m	L2, m
2,50	7,0	16,0
3,00	8,0	18,5
3,50	9,0	21,0
4,00	9,5	22,5
4,50	10,0	25,0
5,00	10,5	26,5
6,00	11,0	27,0
7,00	11,5	28,0
8,00	11,0	28,0

LOA optic for open area illumination:

LOA- 1W/140lm min. 0,5lx

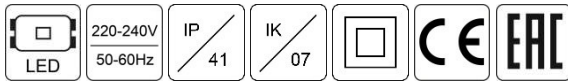
H, m	L1, m	L2, m
2,50	4,0	10,5
3,00	4,5	11,5
3,50	5,0	13,0
4,00	2,5	12,0
4,50	2,0	11,5
5,00	2,5	11,0
6,00	2,0	10,0

LOA- 3W/360lm min. 0,5lx

H, m	L1, m	L2, m
2,50	5,0	12,0
3,00	5,5	13,0
3,50	6,5	15,5
4,00	7,0	16,5
4,50	7,5	18,0
5,00	8,0	19,5
6,00	4,0	18,0
7,00	2,5	18,0
8,00	2,5	17,5

CORRIDOR S LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A surface LED emergency escape luminaire with latest optics designed to illuminate escape routes or open areas
 Optics: LER- escape route, LOA- open areas
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Deep discharge protection
 The extremely effective optics reflected in the very large assembling distances between the luminaires:
 up to 29m along the escape routes;
 up to 20m in the open areas;
 that effects significantly on reduction of the number of needed emergency luminaires and, consequently, the costs of installation and subsequent maintenance

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP41
 Mechanical impact resistance: IK08

Installation:

Designed to be fixed onto ceiling or walls of any type. Screw terminal, 3x2x2.5mm²

Environment:

Indoor

Application:

Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI*	CCT, K*	Weight, kg
Corridor S 1HLED C321 LER	132	132	54	NM	1	1	80+	6500	0,45
Corridor S 3HLED C322 LER	132	132	54	NM	3	1	80+	6500	0,50
Corridor S 1PLED C323 LER	132	132	54	M/NM	1	1	80+	6500	0,45
Corridor S 3PLED C324 LER	132	132	54	M/NM	3	1	80+	6500	0,50
Corridor S 1HLED C321 LER AUT	132	132	54	NM	1	1	80+	6500	0,45
Corridor S 3HLED C322 LER AUT	132	132	54	NM	3	1	80+	6500	0,50
Corridor S 1PLED C323 LER AUT	132	132	54	M/NM	1	1	80+	6500	0,45
Corridor S 3PLED C324 LER AUT	132	132	54	M/NM	3	1	80+	6500	0,50
Corridor S CBLED C325 LER	132	132	54	CEB	x	1	80+	6500	0,45
Corridor S 1HLED C321 LOA	132	132	54	NM	1	1	80+	6500	0,45
Corridor S 3HLED C322 LOA	132	132	54	NM	3	1	80+	6500	0,50
Corridor S 1PLED C323 LOA	132	132	54	M/NM	1	1	80+	6500	0,45
Corridor S 3PLED C324 LOA	132	132	54	M/NM	3	1	80+	6500	0,50
Corridor S 1HLED C321 LOA AUT	132	132	54	NM	1	1	80+	6500	0,45
Corridor S 3HLED C322 LOA AUT	132	132	54	NM	3	1	80+	6500	0,50
Corridor S 1PLED C323 LOA AUT	132	132	54	M/NM	1	1	80+	6500	0,45
Corridor S 3PLED C324 LOA AUT	132	132	54	M/NM	3	1	80+	6500	0,50
Corridor S CBLED C325 LOA	132	132	54	CEB	x	1	80+	6500	0,45

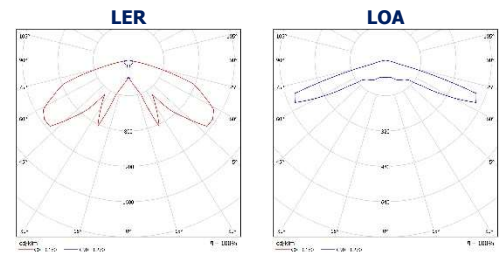
TECHNICAL DATA SHEET

Corridor S 1HLED C326 LER	132	132	74	NM	1	3	80+	6500	0,65
Corridor S 3HLED C327 LER	132	132	74	NM	3	3	80+	6500	0,70
Corridor S 1PLED C328 LER	132	132	74	M/NM	1	3	80+	6500	0,65
Corridor S 3PLED C329 LER	132	132	74	M/NM	3	3	80+	6500	0,70
Corridor S 1HLED C326 LER AUT	132	132	74	NM	1	3	80+	6500	0,65
Corridor S 3HLED C327 LER AUT	132	132	74	NM	3	3	80+	6500	0,70
Corridor S 1PLED C328 LER AUT	132	132	74	M/NM	1	3	80+	6500	0,65
Corridor S 3PLED C329 LER AUT	132	132	74	M/NM	3	3	80+	6500	0,70
Corridor S CBLED C330 LER	132	132	74	CEB	x	3	80+	6500	0,65
Corridor S 1HLED C326 LOA	132	132	74	NM	1	3	80+	6500	0,65
Corridor S 3HLED C327 LOA	132	132	74	NM	3	3	80+	6500	0,70
Corridor S 1PLED C328 LOA	132	132	74	M/NM	1	3	80+	6500	0,65
Corridor S 3PLED C329 LOA	132	132	74	M/NM	3	3	80+	6500	0,70
Corridor S 1HLED C326 LOA AUT	132	132	74	NM	1	3	80+	6500	0,65
Corridor S 3HLED C327 LOA AUT	132	132	74	NM	3	3	80+	6500	0,70
Corridor S 1PLED C328 LOA AUT	132	132	74	M/NM	1	3	80+	6500	0,65
Corridor S 3PLED C329 LOA AUT	132	132	74	M/NM	3	3	80+	6500	0,70
Corridor S CBLED C330 LOA	132	132	74	CEB	x	3	80+	6500	0,65

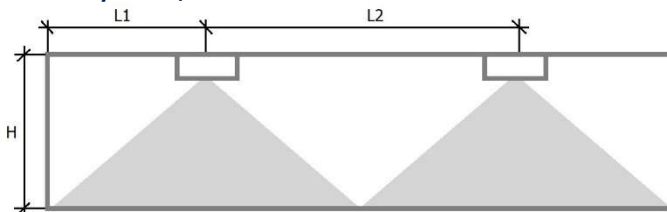
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
LGREY	Light grey thermoplastic body
BLACK	Black thermoplastic body
LER	Optic for escape route
LOA	Optic for open areas
LOU	Optic for mixed areas/universal
LOS	Optic with asymmetric beam



Photometry of LOA/LER



L1- distance from the wall to the first fixture
L2- distance between fixtures
H- height of the ceiling

LER optic for corridor route illumination:

LER- 1W/150lm min. 1lx

H, m	L1, m	L2, m
2,50	5,5	15,0
3,00	5,5	16,0
3,50	5,0	16,0
4,00	5,0	16,5
4,50	5,0	16,5
5,00	4,5	16,5
6,00		

LER- 3W/360lm min. 1lx

H, m	L1, m	L2, m
2,50	7,5	19,0
3,00	8,0	20,5
3,50	8,5	21,0
4,00	9,0	23,0
4,50	9,0	24,0
5,00	9,5	25,0
6,00	10,0	26,0
7,00	10,0	28,0
8,00	9,5	29,0

LOA optic for open area illumination:

LOA- 1W/140lm min. 0,5lx

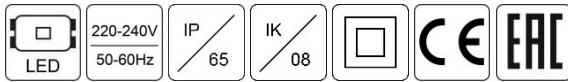
H, m	L1, m	L2, m
2,50	3,0	11,0
3,00	2,5	11,5
3,50	2,5	13,0
4,00	2,5	12,5
4,50	2,5	12,5
5,00	2,0	11,0
6,00	1,5	10,5

LOA- 3W/390lm min. 0,5lx

H, m	L1, m	L2, m
2,50	5,0	18,0
3,00	5,0	18,0
3,50	4,5	18,0
4,00	4,5	18,5
4,50	4,0	20,0
5,00	3,5	20,0
6,00	3,5	19,5
7,00	4,0	18,5
8,00	4,0	18,0

APOLLO HIGH LED

Product Group: Emergency Lighting



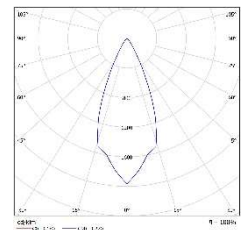
Description:	A surface LED emergency escape luminaire with IP65 degree of protection and extremely robust housing for high mounting applications. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C Diffuser: clear polycarbonate, impact resistant Body: polycarbonate, white finish, with LED status indicator Battery charging time: 24 hours (12 hours optional: AUT) Battery: NiCd (LiFePO ₄ optional: AUT) Deep discharge protection
General data:	Mains voltage: 220-240V, 50-60Hz Light source: LED Light source included: Yes Light distribution type: Direct LED lifetime, h: 50000/L80B50 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional) Protection class IEC: II Ingress protection code: IP65 Mechanical impact resistance: IK08
Installation:	Designed to be fixed onto ceiling of any type. Suggested mounting height from 8 to 14 meters. Push-in terminal, 3x2x2.5mm ²
Environment:	Indoor
Application:	Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Apollo HIGH 1HLED R38	356	136	79	NM	1	3	80+	6500	1,20
Apollo HIGH 3HLED R40	356	136	79	NM	3	3	80+	6500	1,40
Apollo HIGH 1PLED R41	356	136	79	M/NM	1	3	80+	6500	1,20
Apollo HIGH 3PLED R43	356	136	79	M/NM	3	3	80+	6500	1,40
Apollo HIGH 1HLED R38 AUT	356	136	79	NM	1	3	80+	6500	1,20
Apollo HIGH 3HLED R40 AUT	356	136	79	NM	3	3	80+	6500	1,40
Apollo HIGH 1PLED R41 AUT	356	136	79	M/NM	1	3	80+	6500	1,20
Apollo HIGH 3PLED R43 AUT	356	136	79	M/NM	3	3	80+	6500	1,40
Apollo HIGH CEBLED C331	356	136	79	CEB	x	3	80+	6500	1,20

*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

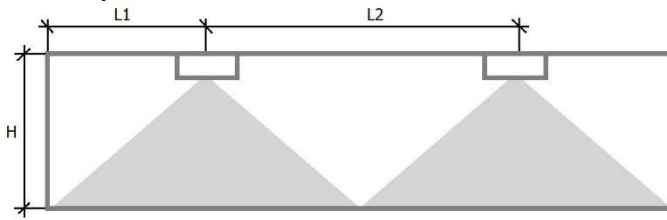
Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
tmin-25	Suitable for low temperatures with ta -25...+40°C



TECHNICAL DATA SHEET

Photometry:



L1- distance from the wall to the first fixture

L2- distance between fixtures

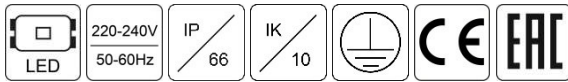
H- height of the ceiling

Apollo HIGH LED optic for escape route and open area illumination:

Escape route 3x1W/370lm min. 1lx			Open area 3x1W/370lm min. 0,5lx		
H, m	L1, m	L2, m	H, m	L1, m	L2, m
8,00	5,00	9,00	8,00	5,00	9,00
8,50	5,50	10,00	8,50	5,00	9,00
9,00	6,00	10,00	9,00	5,00	9,00
9,50	6,00	10,00	9,50	6,00	9,50
10,00	6,00	10,50	10,00	6,00	10,00
10,50	6,00	11,00	10,50	6,00	10,50
11,00	6,00	11,00	11,00	6,00	10,50
11,50	6,00	11,50	11,50	7,00	11,00
12,00	6,00	12,00	12,00	7,00	11,00
13,00	6,00	12,00	13,00	7,00	12,00
14,00	6,00	11,00	14,00	7,00	12,00

NORTHER LED

Product Group: Emergency Lighting



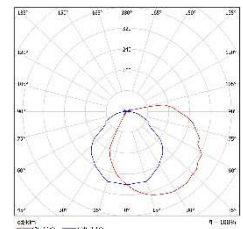
Description:	A wall mounted LED emergency escape luminaire for outdoor applications. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C Diffuser: tempered glass, impact resistant Body: stainless steel, white finish, with LED status indicator Battery charging time: 24 hours (12 hours optional: AUT) Battery: NiCd (LiFePO ₄ optional: AUT) Deep discharge protection
General data:	Mains voltage: 220-240V, 50-60Hz Light source: LED Light source included: Yes Light distribution type: Direct LED lifetime, h: 50000/L80B50 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional) Protection class IEC: I Ingress protection code: IP66 Mechanical impact resistance: IK10
Installation:	Designed to be fixed onto walls of any type. Suggested mounting height from 2 to 3,6 meters. Push-in terminal, 3x2x2.5mm ²
Environment:	Outdoor
Application:	Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Norther 1HLED C332	227	222	77	NM	1	3	80+	6500	1,50
Norther 3HLED C333	227	222	77	NM	3	3	80+	6500	1,65
Norther 1PLED C334	227	222	77	M/NM	1	3	80+	6500	1,50
Norther 1PLED C335	227	222	77	M/NM	3	3	80+	6500	1,65
Norther 1HLED C332 TEST	227	222	77	NM	1	3	80+	6500	1,50
Norther 3HLED C333 TEST	227	222	77	NM	3	3	80+	6500	1,65
Norther 1PLED C334 TEST	227	222	77	M/NM	1	3	80+	6500	1,50
Norther 1PLED C335 TEST	227	222	77	M/NM	3	3	80+	6500	1,65
Norther 1HLED C332 AUT	227	222	77	NM	1	3	80+	6500	1,50
Norther 3HLED C333 AUT	227	222	77	NM	3	3	80+	6500	1,65
Norther 1PLED C334 AUT	227	222	77	M/NM	1	3	80+	6500	1,50
Norther 1PLED C335 AUT	227	222	77	M/NM	3	3	80+	6500	1,65
Norther CEBLED C336	227	222	77	CEB	set	3	80+	6500	1,50

*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

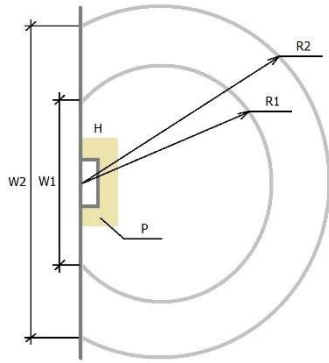
Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
tmin-25	Suitable for low temperatures with ta -25...+40°C
LGREY	Light grey stainless steel body
BLACK	Black stainless steel body



TECHNICAL DATA SHEET

Photometry of Norther LED:

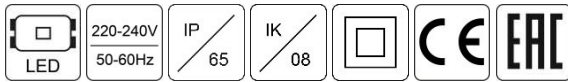


R1- radius of the average illumination >5lx
 W1- distance from the wall with illumination >5lx
 R2- radius of the average illumination >1lx
 W2- distance from the wall with illumination >1lx
 P- light intensity under the luminaire
 H- mounting height of the luminaire

Norther LED 3x1W/360lm min. 5lx and min. 1lx					
H, m	P, m	W1 >5lx, m	R1>5lx, m	W2 >1lx, m	R2 >1lx, m
2,0	30	4,2	3,0	6,9	5,5
2,2	25	4,4	3,0	7,1	5,7
2,4	21	4,4	3,1	7,4	5,8
2,6	18	4,4	3,1	7,6	6,0
2,8	15	4,3	3,1	7,8	6,1
3,0	13	4,1	3,0	8,0	6,2
3,2	11	4,0	3,0	8,4	6,3
3,4	10	3,7	2,9	8,6	6,4
3,6	9	3,4	2,8	8,9	6,5

APOLLO LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A surface LED emergency exit sign with IP65 degree of protection and extremely robust housing, ensures long life even under the toughest conditions. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C
 Diffuser: clear or opal polycarbonate, impact resistant
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO4 optional: AUT)
 Recognition distance: 25 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional)
 Protection class IEC: II
 Ingress protection code: IP65
 Mechanical impact resistance: IK08

Installation: Designed to be fixed onto walls of any type. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm2

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Apollo 1HLED G27	356	136	79	NM	1	1	80+	6500	1,15
Apollo 3HLED G29	356	136	79	NM	3	1	80+	6500	1,20
Apollo 1PLED G30	356	136	79	M/NM	1	1	80+	6500	1,10
Apollo 3PLED G32	356	136	79	M/NM	3	1	80+	6500	1,20
Apollo 1HLED G27 OP	356	136	79	NM	1	1	80+	6500	1,15
Apollo 3HLED G29 OP	356	136	79	NM	3	1	80+	6500	1,20
Apollo 1PLED G30 OP	356	136	79	M/NM	1	1	80+	6500	1,10
Apollo 3PLED G32 OP	356	136	79	M/NM	3	1	80+	6500	1,20

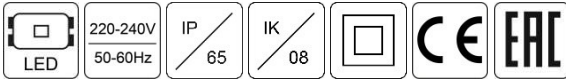
*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- tmin-25 Suitable for low temperatures with ta -25...+40°C
- OP Opal polycarbonate diffuser

SCORPIUS LED

Product Group: Emergency Lighting



Description: A surface double-sided LED emergency exit sign with IP65 degree of protection and extremely robust housing, ensures long life even under the toughest conditions. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C
 Diffuser: opal polycarbonate, impact resistant
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 25 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Omnidirectional
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional)
 Protection class IEC: II
 Ingress protection code: IP65
 Mechanical impact resistance: IK08

Installation: Designed to be fixed onto ceiling of any type or suspended. Suspension kit is not included. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Scorpius 1HLED G39 OP	356	136	219	NM	1	1	80+	6500	1,40
Scorpius 3HLED G41 OP	356	136	219	NM	3	1	80+	6500	1,50
Scorpius 1PLED G42 OP	356	136	219	M/NM	1	1	80+	6500	1,40
Scorpius 3PLED G44 OP	356	136	219	M/NM	3	1	80+	6500	1,65

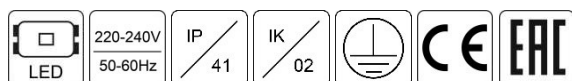
*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- tmin-25 Suitable for low temperatures with ta -25...+40°C
- OP Opal polycarbonate diffuser

TAURUS LED

Product Group: Emergency Lighting



Description:	A surface double-sided LED emergency exit sign with aluminium body for both mains and emergency operations Diffuser: clear PMMA Body: extruded aluminium, light grey finish, with LED status indicator Battery charging time: 24 hours (12 hours optional: AUT) Battery: NiCd (LiFePO ₄ optional: AUT) Recognition distance: 30 meters Deep discharge protection
General data:	Mains voltage: 220-240V, 50-60Hz Light source: LED Light source included: Yes Light distribution type: Omnidirectional LED lifetime, h: 50000/L80B50 Operating temperature range, °C: ta 0...+40 Protection class IEC: I Ingress protection code: IP41 Mechanical impact resistance: IK02
Installation:	Designed to be fixed onto ceiling or wall of any type, including flammable surfaces, or suspended. Suspension kit is not included. Supplied with legend kit ("Exit", "Left" and "Right"). Screw terminal, 3x2x2.5mm2
Environment:	Indoor
Application:	Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Taurus 1HLED G05 Deluxe	315	48	243	NM	1	1	80+	6500	1,25
Taurus 3HLED G07 Deluxe	315	48	243	NM	3	1	80+	6500	1,30
Taurus 1PLED G08 Deluxe	315	48	243	M/NM	1	1	80+	6500	1,20
Taurus 3PLED G10 Deluxe	315	48	243	M/NM	3	1	80+	6500	1,25
Taurus 1HLED G05 Deluxe TEST	315	48	243	NM	1	1	80+	6500	1,25
Taurus 3HLED G07 Deluxe TEST	315	48	243	NM	3	1	80+	6500	1,30
Taurus 1PLED G08 Deluxe TEST	315	48	243	M/NM	1	1	80+	6500	1,20
Taurus 3PLED G10 Deluxe TEST	315	48	243	M/NM	3	1	80+	6500	1,25
Taurus 1HLED G05 Deluxe AUT	315	48	243	NM	1	1	80+	6500	1,25
Taurus 3HLED G07 Deluxe AUT	315	48	243	NM	3	1	80+	6500	1,30
Taurus 1PLED G08 Deluxe AUT	315	48	243	M/NM	1	1	80+	6500	1,20
Taurus 3PLED G10 Deluxe AUT	315	48	243	M/NM	3	1	80+	6500	1,25
Taurus CEBLED C339 Deluxe	315	48	243	CEB		1	80+	6500	1,25

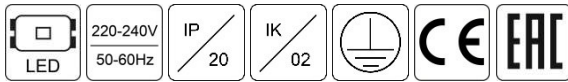
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
BLACK	Black aluminium body

CAPELLA LED

Product Group: Emergency Lighting



Description:	A recessed double-sided LED emergency exit sign with steel body for both mains and emergency operations Diffuser: clear PMMA Body: steel sheet, light grey finish, with LED status indicator Battery charging time: 24 hours (12 hours optional: AUT) Battery: NiCd (LiFePO ₄ optional: AUT) Recognition distance: 30 meters Deep discharge protection
General data:	Mains voltage: 220-240V, 50-60Hz Light source: LED Light source included: Yes Light distribution type: Omnidirectional LED lifetime, h: 50000/L80B50 Operating temperature range, °C: ta 0...+40 Protection class IEC: I Ingress protection code: IP20 Mechanical impact resistance: IK02
Installation:	Suitable for plasterboard or similar types of ceiling, requires a cut-out: 330x65mm and under-ceiling height >110mm. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm ²
Environment:	Indoor
Application:	Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

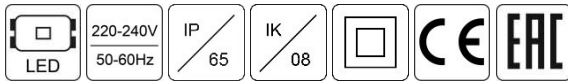
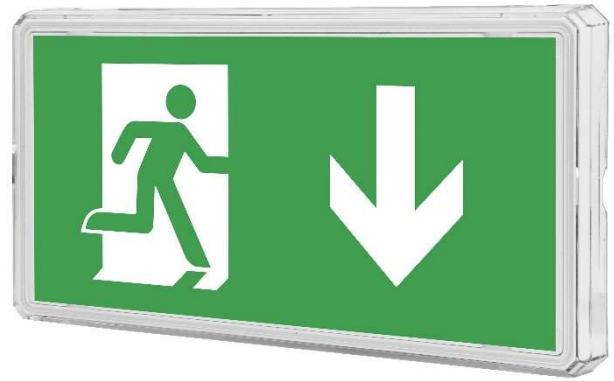
Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Capella 1HLED G17	355	110	210	NM	1	1	80+	6500	1,60
Capella 3HLED C24	355	110	210	NM	3	1	80+	6500	1,65
Capella 1PLED G19	355	110	210	M/NM	1	1	80+	6500	1,60
Capella 3PLED C25	355	110	210	M/NM	3	1	80+	6500	1,65
Capella 1HLED G17 TEST	355	110	210	NM	1	1	80+	6500	1,60
Capella 3HLED C24 TEST	355	110	210	NM	3	1	80+	6500	1,65
Capella 1PLED G19 TEST	355	110	210	M/NM	1	1	80+	6500	1,60
Capella 3PLED C25 TEST	355	110	210	M/NM	3	1	80+	6500	1,65
Capella 1HLED G17 AUT	355	110	210	NM	1	1	80+	6500	1,60
Capella 3HLED C24 AUT	355	110	210	NM	3	1	80+	6500	1,65
Capella 1PLED G19 AUT	355	110	210	M/NM	1	1	80+	6500	1,60
Capella 3PLED C25 AUT	355	110	210	M/NM	3	1	80+	6500	1,65
Capella CEBLED C340	355	110	210	CEB	x	1	80+	6500	1,60

*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:	
TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
WHITE	White steel body

HELM LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A surface LED emergency exit sign with IP65 degree of protection and extremely robust housing, ensures long life even under the toughest conditions. An additional option is to adapt the fitting to work in the low temperatures: up to -25°C
 Diffuser: clear polycarbonate, impact resistant
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 25 meters
 Deep discharge protection

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40 (ta -25...+40 optional)
 Protection class IEC: II
 Ingress protection code: IP65
 Mechanical impact resistance: IK08

Installation:

Designed to be fixed onto ceiling or walls of any type. Accessory for two-sided emergency exit sign and for recessed mounting available on request, requires a cut-out: 260x125mm (208x107mm HELM S LED). Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment:

Indoor

Application:

Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Helm 1HLED C356	276	143	44	NM	1	1	80+	6500	0,50
Helm 3HLED C357	276	143	44	NM	3	1	80+	6500	0,55
Helm 1PLED C358	276	143	44	M/NM	1	1	80+	6500	0,50
Helm 3PLED C359	276	143	44	M/NM	3	1	80+	6500	0,55
Helm 1PLED C360	276	143	44	M/NM	1	3	80+	6500	0,60
Helm 3PLED C361	276	143	44	M/NM	3	3	80+	6500	0,65
Helm 1PLED C358 AUT	276	143	44	M/NM	1	1	80+	6500	0,50
Helm 3PLED C359 AUT	276	143	44	M/NM	3	1	80+	6500	0,55
Helm 1PLED C360 AUT	276	143	44	M/NM	1	3	80+	6500	0,50
Helm 3PLED C361 AUT	276	143	44	M/NM	3	3	80+	6500	0,55
Helm CELED C362	276	143	44	CEB	x	1	80+	6500	0,50
Helm CELED C363	276	143	44	CEB	x	3	80+	6500	0,60
Helm S 3HLED D539	226	125	42	NM	3	1	80+	6500	0,45
Helm S 3PLED D540	226	125	42	M/NM	3	1	80+	6500	0,55

*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

TECHNICAL DATA SHEET

Available options:

TEST	Manual test button
AUT	Autonomous testing system
CEB	Fitting to central battery system
CLV	Fitting to low voltage central battery system CEBLV
EMS	Fitting to emergency monitoring system
tmin-25	Suitable for low temperatures with ta -25...+40°C
LGREY	Light grey thermoplastic body
BLACK	Black thermoplastic body

Available accessories:



Product: Helm LED Exit blade
Description: PMMA exit blade with mounting springs



Product: Helm LED Recessed MTG kit
Description: Recessed mounting kit for Helm LED series



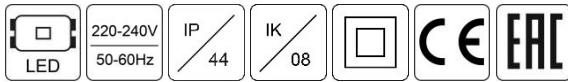
Product: Helm S LED Exit blade
Description: PMMA exit blade with mounting springs



Product: Helm S LED Recessed MTG kit
Description: Recessed mounting kit for Helm LED series

ZONDA LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:

A surface double-sided LED emergency exit sign with slim design for both mains and emergency operations
 Diffuser: opal or clear polycarbonate (optional double optics system with additional illumination of the surface under the luminaire: 2CLR)
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 30 meters
 Deep discharge protection

General data:

Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Omnidirectional
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP44
 Mechanical impact resistance: IK08

Installation:

Designed to be fixed onto ceiling or wall of any type, including flammable surfaces. Supplied with legend kit ("Exit", "Left" and "Right").
 Screw terminal, 3x2x2.5mm²

Environment:

Indoor

Application:

Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Zonda 1HLED C348 OP	325	41	250	NM	1	1	80+	6500	1,00
Zonda 3HLED C349 OP	325	41	250	NM	3	1	80+	6500	1,20
Zonda 1PLED C350 OP	325	41	250	M/NM	1	1	80+	6500	1,15
Zonda 3PLED C351 OP	325	41	250	M/NM	3	1	80+	6500	1,15
Zonda CEBLED C352 OP	325	41	250	CEB	x	1	80+	6500	1,00
Zonda 1PLED C353 2CLR AUT	325	41	250	M/NM	1	3	80+	6500	1,15
Zonda 3PLED C354 2CLR AUT	325	41	250	M/NM	3	3	80+	6500	1,20
Zonda CBLELED C355 2CLR AUT	325	41	250	CEB	x	3	80+	6500	1,05

*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- 2CLR Double optics system with additional illumination of the surface under the luminaire

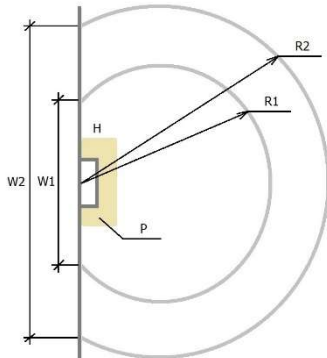
TECHNICAL DATA SHEET

Available accessories:



Product: Zonda LED Wall MTG kit
Description: Wall mounting kit for Zonda LED series

Photometry of Zonda LED...2CLR:

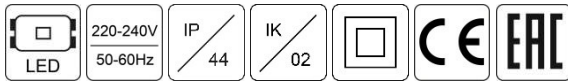


R1- radius of the average illumination >5lx
W1- distance from the wall with illumination >5lx
R2- radius of the average illumination >1lx
W2- distance from the wall with illumination >1lx
P- light intensity under the luminaire
H- mounting height of the luminaire

Zonda LED...CLR 2W/120lm min. 5lx and min. 1lx					
H, m	P, m	W1 >5lx, m	R1>5lx, m	W2 >1lx, m	R2 >1lx, m
2,0	62	2,9	0,8	5,2	2,0
2,2	50	3,0	0,9	5,4	2,0
2,4	41	3,1	0,9	5,5	2,0
2,6	34	3,2	0,9	5,6	1,9
2,8	29	3,2	0,9	5,6	1,9
3,0	25	3,2	0,9	5,8	1,8
3,2	22	3,3	0,9	6,0	1,8
3,4	20	3,3	0,9	6,0	1,8
3,6	18	3,3	0,9	6,0	1,8

NASHI S LED

Product Group: Emergency Lighting



Description: A surface double-sided LED emergency exit sign with IP44 degree of protection for both mains and emergency operations
 Diffuser: acrylic glass, clear
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 25 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Omnidirectional
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP44
 Mechanical impact resistance: IK02

Installation: Designed to be fixed onto ceiling or wall of any type, including flammable surfaces, or suspended. Suspension kit is not included. Supplied with legend kit ("Exit", "Left" and "Right"). Screw terminal, 3x2x2.5mm2

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Nashi S 1HLED C431	299	43	206	NM	1	1	80+	6500	1,00
Nashi S 3HLED C432	299	43	206	NM	3	1	80+	6500	1,20
Nashi S 1PLED C433	299	43	206	M/NM	1	1	80+	6500	1,15
Nashi S 3PLED C434	299	43	206	M/NM	3	1	80+	6500	1,20
Nashi S 3PLED C434 TEST	299	43	206	M/NM	3	1	80+	6500	1,20
Nashi S CEBLED C435	299	43	206	CEB	set	1	80+	6500	1,00

*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

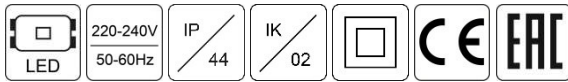
- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

Applications:



NASHI R LED

Product Group: Emergency Lighting



Description: A recessed double-sided LED emergency exit sign with IP44 degree of protection for both mains and emergency operations
 Diffuser: acrylic glass, clear
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Time of operation in emergency mode: 1 or 3 hours
 Battery: high-temperature nickel-cadmium (lithium iron phosphate optional: AUT)
 Recognition distance: 25 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Omnidirectional
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP44
 Mechanical impact resistance: IK02

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out: 328x62x206(300x45). Supplied with legend kit ("Exit", "Left" and "Right"). Screw terminal, 3x2x2.5mm2

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Nashi R 1HLED C436	328	62	206	NM	1	1	80+	6500	1,00
Nashi R 3HLED C437	328	62	206	NM	3	1	80+	6500	1,20
Nashi R 1PLED C438	328	62	206	M/NM	1	1	80+	6500	1,15
Nashi R 3PLED C439	328	62	206	M/NM	3	1	80+	6500	1,20
Nashi R CEBLED C440	328	62	206	CEB	set	1	80+	6500	1,00

*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

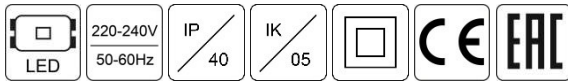
- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

Applications:



LEPUS S LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A surface LED emergency exit sign with modern design for both mains and emergency operations
 Diffuser: clear PMMA
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 30 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP40
 Mechanical impact resistance: IK05

Installation: Designed to be fixed onto walls of any type. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm2

Environment: Indoor

Application: Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Lepus S 1HLED G059	337	57	189	NM	1	1	80+	6500	1,20
Lepus S 3HLED G060	337	57	189	NM	3	1	80+	6500	1,25
Lepus S 1PLED G061	337	57	189	M/NM	1	1	80+	6500	1,15
Lepus S 3PLED G062	337	57	189	M/NM	3	1	80+	6500	1,20
Lepus S 1HLED G059 TEST	337	57	189	NM	1	1	80+	6500	1,20
Lepus S 3HLED G060 TEST	337	57	189	NM	3	1	80+	6500	1,25
Lepus S 1PLED G061 TEST	337	57	189	M/NM	1	1	80+	6500	1,15
Lepus S 3PLED G062 TEST	337	57	189	M/NM	3	1	80+	6500	1,20
Lepus S 1HLED G059 AUT	337	57	189	NM	1	1	80+	6500	1,20
Lepus S 3HLED G060 AUT	337	57	189	NM	3	1	80+	6500	1,25
Lepus S 1PLED G061 AUT	337	57	189	M/NM	1	1	80+	6500	1,15
Lepus S 3PLED G062 AUT	337	57	189	M/NM	3	1	80+	6500	1,20
Lepus S CEBLED G063	337	57	189	CEB	x	1	80+	6500	1,10

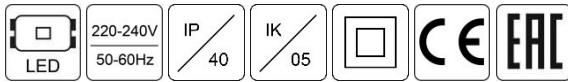
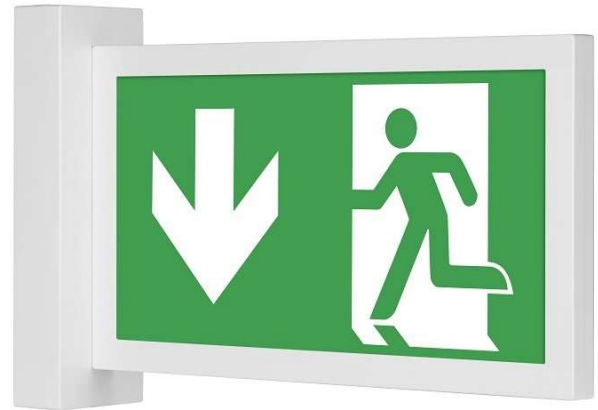
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

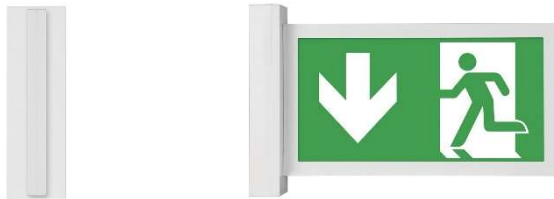
- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

LEPUS W LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A wall mounted double-sided LED emergency exit sign with modern design for both mains and emergency operations
 Diffuser: clear PMMA
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 30 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP40
 Mechanical impact resistance: IK05

Installation: Designed to be fixed onto walls of any type. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Lepus W 1HLED G064	377	72	232	NM	1	1	80+	6500	1,40
Lepus W 3HLED G065	377	72	232	NM	3	1	80+	6500	1,50
Lepus W 1PLED G066	377	72	232	M/NM	1	1	80+	6500	1,35
Lepus W 3PLED G067	377	72	232	M/NM	3	1	80+	6500	1,40
Lepus W 1HLED G064 TEST	377	72	232	NM	1	1	80+	6500	1,40
Lepus W 3HLED G065 TEST	377	72	232	NM	3	1	80+	6500	1,50
Lepus W 1PLED G066 TEST	377	72	232	M/NM	1	1	80+	6500	1,35
Lepus W 3PLED G067 TEST	377	72	232	M/NM	3	1	80+	6500	1,40
Lepus W 1HLED G064 AUT	377	72	232	NM	1	1	80+	6500	1,40
Lepus W 3HLED G065 AUT	377	72	232	NM	3	1	80+	6500	1,50
Lepus W 1PLED G066 AUT	377	72	232	M/NM	1	1	80+	6500	1,35
Lepus W 3PLED G067 AUT	377	72	232	M/NM	3	1	80+	6500	1,40
Lepus W CEBLED G068	377	72	232	CEB	x	1	80+	6500	1,40

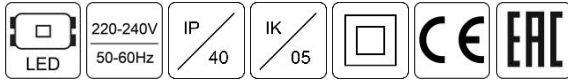
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

LEPORIS C LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A ceiling mounted double-sided LED emergency exit sign with modern design for both mains and emergency operations
 Diffuser: clear PMMA
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 30 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP40
 Mechanical impact resistance: IK05

Installation: Designed to be fixed onto ceilings of any type. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Leporis C 1HLED G069	337	72	224	NM	1	1	80+	6500	1,40
Leporis C 3HLED G070	337	72	224	NM	3	1	80+	6500	1,50
Leporis C 1PLED G071	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis C 3PLED G072	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis C 1HLED G069 TEST	337	72	224	NM	1	1	80+	6500	1,40
Leporis C 3HLED G070 TEST	337	72	224	NM	3	1	80+	6500	1,50
Leporis C 1PLED G071 TEST	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis C 3PLED G072 TEST	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis C 1HLED G069 AUT	337	72	224	NM	1	1	80+	6500	1,40
Leporis C 3HLED G070 AUT	337	72	224	NM	3	1	80+	6500	1,50
Leporis C 1PLED G071 AUT	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis C 3PLED G072 AUT	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis C CEBLED G073	337	72	224	CEB	x	1	80+	6500	1,40

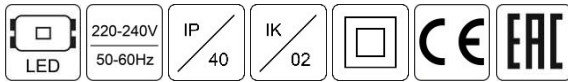
*-M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

LEPORIS U LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A suspended double-sided LED emergency exit sign with modern design for both mains and emergency operations
 Diffuser: clear PMMA
 Body: polycarbonate, white finish, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 30 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP40
 Mechanical impact resistance: IK02

Installation: Designed to be fixed onto ceilings of any type. Suspension rope length can be adjusted from 0 to 1000mm. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Leporis U 1HLED G074	337	72	224	NM	1	1	80+	6500	1,35
Leporis U 3HLED G075	337	72	224	NM	3	1	80+	6500	1,40
Leporis U 1PLED G076	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis U 3PLED G077	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis U 1HLED G074 TEST	337	72	224	NM	1	1	80+	6500	1,35
Leporis U 3HLED G075 TEST	337	72	224	NM	3	1	80+	6500	1,40
Leporis U 1PLED G076 TEST	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis U 3PLED G077 TEST	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis U 1HLED G074 AUT	337	72	224	NM	1	1	80+	6500	1,35
Leporis U 3HLED G075 AUT	337	72	224	NM	3	1	80+	6500	1,40
Leporis U 1PLED G076 AUT	337	72	224	M/NM	1	1	80+	6500	1,35
Leporis U 3PLED G077 AUT	337	72	224	M/NM	3	1	80+	6500	1,40
Leporis U CEBLED G078	337	72	224	CEB	x	1	80+	6500	1,45

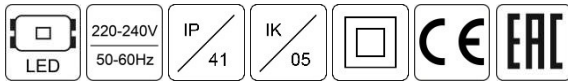
*M-maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system
- LGREY Light grey thermoplastic body
- BLACK Black thermoplastic body

SEASON LED

Product Group: Emergency Lighting



Description: A surface four-sided LED emergency exit sign for both mains and emergency operations
 Body: opal PMMA, with LED status indicator
 Battery charging time: 24 hours (12 hours optional: AUT)
 Battery: NiCd (LiFePO₄ optional: AUT)
 Recognition distance: 48 meters
 Deep discharge protection

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L80B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: II
 Ingress protection code: IP41
 Mechanical impact resistance: IK05

Installation: Designed to be fixed onto ceilings of any type. Pictograms have to be chosen and ordered as a separate item. Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Season 1HLED C341 OP	240	240	240	NM	1	3	80+	6500	1,65
Season 3HLED C342 OP	240	240	240	NM	3	3	80+	6500	1,75
Season 1PLED C343 OP	240	240	240	M/NM	1	3	80+	6500	1,95
Season 3PLED C344 OP	240	240	240	M/NM	3	3	80+	6500	2,15
Season 1HLED C341 OP TEST	240	240	240	NM	1	3	80+	6500	1,65
Season 3HLED C342 OP TEST	240	240	240	NM	3	3	80+	6500	1,75
Season 1PLED C343 OP TEST	240	240	240	M/NM	1	3	80+	6500	1,95
Season 3PLED C344 OP TEST	240	240	240	M/NM	3	3	80+	6500	2,15
Season 1HLED C341 OP AUT	240	240	240	NM	1	3	80+	6500	1,65
Season 3HLED C342 OP AUT	240	240	240	NM	3	3	80+	6500	1,75
Season 1PLED C343 OP AUT	240	240	240	M/NM	1	3	80+	6500	1,95
Season 3PLED C344 OP AUT	240	240	240	M/NM	3	3	80+	6500	2,15
Season CEBLED C345 OP	240	240	240	CEB	x	3	80+	6500	1,65

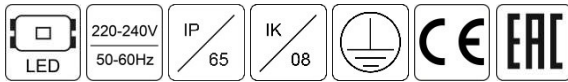
*-M -maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- AUT Autonomous testing system
- CEB Fitting to central battery system
- CLV Fitting to low voltage central battery system CEBLV
- EMS Fitting to emergency monitoring system

LIBRA LED

Product Group: Emergency Lighting



Images for the product family and options:



Description:	A surface LED emergency exit sign with IP65 degree of protection and extremely robust housing for both mains and emergency operations in escape routes and open areas Diffuser: opal or clear polycarbonate, impact resistant Body: polycarbonate, white finish, with LED status indicator and test button Battery charging time: 24 hours Battery: NiCd Recognition distance: 20 meters
General data:	Mains voltage: 220-240V, 50-60Hz Light source: LED Light source included: Yes Light distribution type: Direct LED lifetime, h: 50000/L70B50 Operating temperature range, °C: ta 0...+40 Protection class IEC: I Ingress protection code: IP65 Mechanical impact resistance: IK08
Installation:	Designed to be fixed onto walls of any type, including flammable surfaces. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm2
Environment:	Indoor
Application:	Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Libra 3PLED B234 OP TEST	350	110	60	M/NM	3	1	70+	6500	1,35
Libra 3PLED B234 CLR TEST	350	110	60	M/NM	3	1	70+	6500	1,35

*M -maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- OP Opal polycarbonate diffuser
- CLR Clear polycarbonate diffuser
- SPORT Luminaire equipped with white protective grid

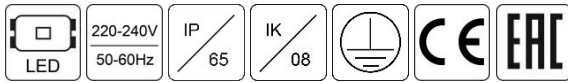
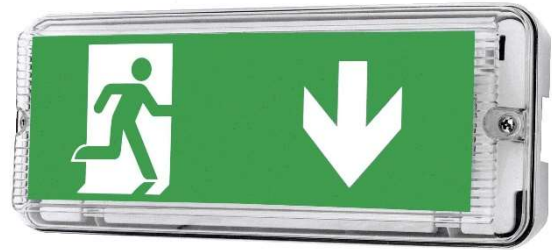
Available accessories:



Product: Libra PRG SPORT
Description: White protection grid for LIBRA

GEMINI LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A surface LED emergency exit sign with IP65 degree of protection and impact housing for both mains and emergency operations
 Diffuser: clear polycarbonate, impact resistant
 Body: polycarbonate, white finish, with LED status indicator and test button
 Battery charging time: 24 hours
 Battery: NiCd
 Recognition distance: 16 meters

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L70B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: I
 Ingress protection code: IP65
 Mechanical impact resistance: IK08

Installation: Designed to be fixed onto walls of any type, including flammable surfaces. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm2

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Gemini 3PLED D549 CLR TEST	276	110	60	M/NM	3	1	70+	6500	0,50

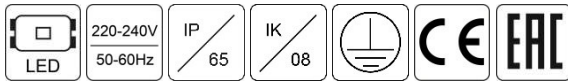
*-M -maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- CLR Clear polycarbonate diffuser

HYDRA LED

Product Group: Emergency Lighting



Images for the product family and options:



Description: A surface double-sided LED emergency exit sign with IP65 degree of protection and extremely robust housing for both mains and emergency operations in escape routes and open areas
 Diffuser: opal polycarbonate, impact resistant
 Body: polycarbonate, white finish, with LED status indicator and test button
 Battery charging time: 24 hours
 Battery: NiCd
 Recognition distance: 20 meters

General data: Mains voltage: 220-240V, 50-60Hz
 Light source: LED
 Light source included: Yes
 Light distribution type: Direct
 LED lifetime, h: 50000/L70B50
 Operating temperature range, °C: ta 0...+40
 Protection class IEC: I
 Ingress protection code: IP65
 Mechanical impact resistance: IK08

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or suspended. Supplied with legend kit ("Exit", "Left" and "Right"). Push-in terminal, 3x2x2.5mm²

Environment: Indoor

Application: Emergency lighting



Supplied with legend kit ("Exit", "Left" and "Right")

Product	Length, mm	Width, mm	Height, mm	Illumination mode	Emergency operating time, h	Power in emergency mode, W*	CRI *	CCT, K*	Weight, kg
Hydra 3PLED B240 TEST	350	110	220	M/NM	3	1	70+	6500	1,65

*M -maintained (with an option of connecting as non-maintained), NM- non-maintained, power and output indicates data in emergency mode, tolerance range for optical and electrical data: ±10%, values apply to an ambient temperature of 25°C

Available options:

- TEST Manual test button
- OP Opal polycarbonate diffuser