

**2017**  
**REVERS**  
**EMERGENCY**

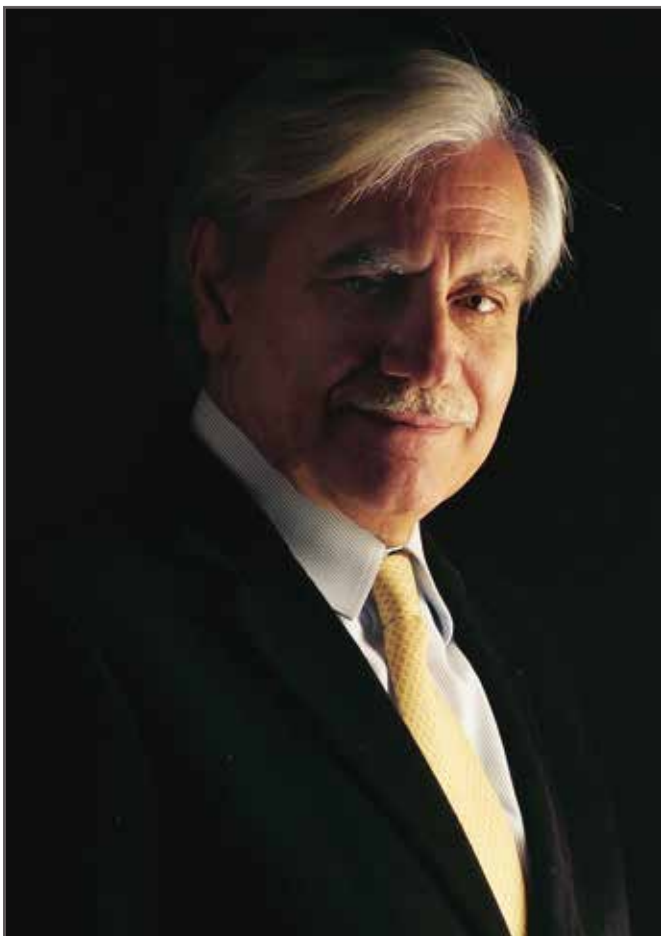
**Beghelli**



# The Evolution of Control

The high-tech identity of the Beghelli brand value is illustrated once again. New challenges have arisen in the field of control and communication for lighting devices and emergency lighting technologies, driving companies to maximise energy savings and improve people's lives. The Opticom Technology project takes a completely new approach to the concept of lighting

control, giving rise to a revolutionary design which uses smartphone technology. Indeed, modern mobile phones - more or less ubiquitous in this day and age - boast a degree of potential which extends far beyond the collective imagination, and can be used to benefit end users and installers of equipment alike.



In the era of the IOT (Internet of Things), Beghelli has turned its attention to all professionals in the industry, from designers and architects to distributors and installers of electrical equipment. The company offers an extensive range of new technological solutions, with ideas that not only revolutionise the performance and function of products, but also introduce a new way of working, along with systems which integrate increasingly seamlessly into everyday life. These solutions serve to simplify business activities and foster professionalism at work, incorporating products and services for solutions with ever greater added value. This has led to the creation of a new philosophy for Beghelli, founded on the principles of light, and on the ability to communicate, read and change at will. The solutions offered by the company can interact dynamically with users and with other intelligent systems, transferring or absorbing information and creating a dynamic and intelligent network. These cutting-edge technologies are the manifestation of the true spirit of the next technological revolution in the lighting sector, which will be driven by the interaction between systems and users, as well as by developments in terms of LED light sources and domotics (smart driver) technologies. Welcome to the IOT era, welcome to the new world of Beghelli, welcome to OPTICOM.

**OPTI**cal **COM**munication Technology  
Light that communicates with light

*Gian Pietro Beghelli*

# Emergency Lighting

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BEGHELLI S.p.A. - Via Mozzeghine 13/15 - 40053 Valsamoggia località Monteveglio  
Bologna - Italy - Tel. +39 051 9660411 - Fax +39 051 9660444 - [www.beghelli.com](http://www.beghelli.com)



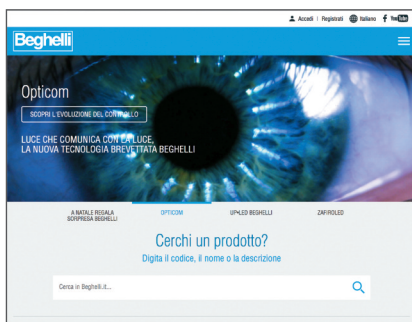
# beghelli.it new Site

Provides maximum ease of information retrieval, high page loading speeds and ensures total accessibility from any digital device.

Website development is based on responsive web design (RWD), an element that allows automatic graphic adaptability to the device from which pages are displayed (computers with different resolutions, tablets, smartphones).



Smartphone Display




Tablet Screen




Computer Screen

The site can also be viewed as a web app, adding the site icon as if it were an app to the tablet or smartphone home, making it easy and straightforward.

To add the Web App icon to the home of your tablet or smartphone, connect to [beghelli.it](http://beghelli.it): 

On iOS devices click the button then  add to "Add to Home"

On Android devices click the button  then on "Aggiungi a Home"



Optical programming technology through Smartphone and dedicated app, for direct control of the devices



**SmartDriver:** Dimmable control gear for LED sources which has two connectors for as many optional devices that modify the characteristics of the fixture. The first connector is exclusively for connection of the Autodimmer Sensor, the second is for a Building Automation Module chosen from the SmartDriver series. Alternative modules that can be connected: Building Automation Module, Dali Module - 0/10W, Grande Esco Italia Module, Vision Module.

## CIVIL

Fixtures particularly indicated for installations in homes and small commercial premises



## ARCHITECTURAL

Fixtures particularly indicated for installations in luxury Hotels, designer stores, historic buildings, museums, showrooms, management centres



## TERTIARY AND INDUSTRIAL

Fixtures particularly suited for installations in Schools, Hospitals, Public Bodies, hotels and accommodation facilities, offices, industrial facilities



















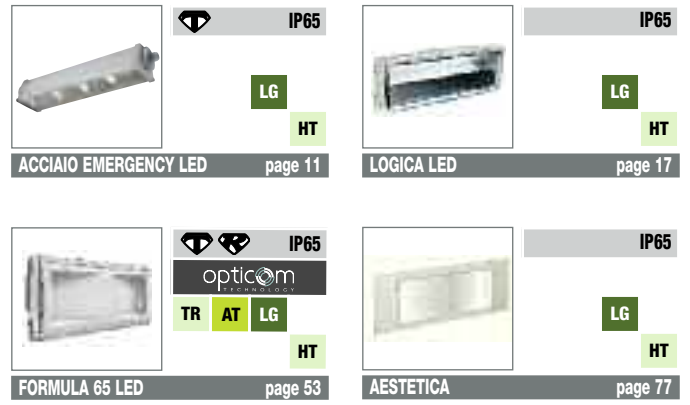
Devices marked by the absence of visible flicker (CIE TN006: 2016- f <80Hz) and reduced stroboscopic effect (CIE TN006: 2016 f <2000Hz). The above mentioned standards define limit values and measurement methods and do not allow tests performed using empirical methods (Cameras, Smartphones, Tablets).

Strobe effects can only be relevant in situations where moving rotating organs are present. For more information [www.beghelli.com \ accademia](http://www.beghelli.com \ accademia)

# Emergency Lighting

## Symbols and approvals

|  |  |   |   |
|--|--|---|---|
|    | Protection Grade against impact of the fixture complying with test methods (According to EN 50102)   | AT  | Self-powered fixtures with local diagnosis, AUTOTEST series   |
|    | Protection Grade against external factors (According to CEI EN 60598-1)  | AR  | Self-powered fixtures with local diagnosis, AUTORIPARA series   |
|    | Product with very high luminous flux, with highlights of the maximum available range   | SE Version  | Emergency fixtures for non permanent lighting   |
|    | Device with residual energy greater than normal emergency operation. This energy, called Overtime, will be modulated to keep the function up to 10 hours of autonomy | SA Version  | Emergency fixtures for permanent lighting   |
|    | A device for installing the Ice Pack accessory, specifically designed to keep battery temperature high in low temperature environments (up to -40 ° C)               |   | GSM transmission of the energy saving data to the Beghelli Services database  |
|  | Device fitted for cable wiring Ø 2.5 mm, smooth and corrugated pipes Ø16-20 mm   |  | Built-in FH-DSSS radio transceiver operating in the band 2.400-2.863 GHz  |
|  | A device equipped with a reflector designed to orient, with the utmost uniformity, all light to the ground and avoid dazzling phenomena                              |  | Fixture suitable for safety signs according to UNI EN 1838. <b>DV</b> (visibility distance): see dimensions table in the TECHNICAL DATA SHEETS. |
|  | Fixture with a photosensor allowing activation of the fixture in SA mode automatically as soon as the threshold of environment light is lowered                      |  | Devices complying with European Community directives  |
| LG   | Self-powered fixtures with diagnosis and remote control, LOGICA series   |  | Fixtures with class II insulation level. Fixtures without this symbol are to be considered class I.   |
| LGFM   | Self-powered fixtures with diagnosis and remote control via radio, LOGICA FM series  |  | Emergency lighting fixtures that ensure 1 hour of autonomy after 12h recharging   |
| SLG  | Centralized safety system and fixtures of the SoccorLogica series.   |  | Fixtures characterized by particular resistance to UV radiation, suitable for direct exposure to natural light                                  |
| HT   | Centrally powered emergency lighting products with supply voltage SAVDC  |  | Fixtures with particular resistance to UV radiation and aggression by mineral oils  |
| TR   | Self-powered fixtures without diagnosis  |  | Indicates Resistance Temperature of the product to the incandescent wire test (CEI EN 60598-1)  |



Tracking and control systems: description of Systems and fixture compatibility

|  |   |   |
|--|---|---|
| <p><b>TR</b></p> <p>SELFCONTAINED EMERGENCY LUMINAIRES AND EMERGENCY LUMINAIRES WITH BATTERY CHECK</p> | <p><b>AT</b></p> <p>SELF TEST EMERGENCY LUMINAIRES AND AUTORIPARA SYSTEM</p> <p>AT page 181</p> | <p><b>LG /LGFM</b></p> <p>SELF-POWERED DEVICES AT WITH AUTOTEST THAT CAN BE CENTRALISED WIRED (LG) OR RADIO (LGFM)</p> <p>LG page 185<br/>LGFM page 195</p> |
|--|---|---|




IP65  
opticom  
TR AT LG

UP LED page 23




IP65  
opticom  
TR AT LG

UP LED LITE page 30




IP42  
opticom  
TR AT LG

UP LED MULTI page 35




IP40 IP65  
opticom  
TR AT LG

COMPLETA LED page 43



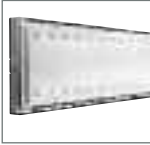
IP42  
AT LG HT

LUNGALARGALUCE LED - ceiling page 83




IP42  
AT LG HT

LUNGALARGALUCE LED - recessed page 91



IP42 IP65  
TR AT

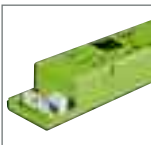
TICINQUE LED page 97



IP65  
TR AT

GRANLUCE LED page 103

### Emergency conversion kits



IP40 IP65  
TR

INVERTER LED PLUG&LIGHT page 113



IP40 IP65  
AT LG

INVERTER LED page 117



IP40  
TR AT LG

ELETTRINVERTER page 121

### LED Module with emergency conversion kits



IP20  
AT LG HT

LED EMERGENCY MODULE page 133



IP20  
TR

ECOLED INVERTER MODULE page 136


### Portable Emergency



IP40  
TR

SCOUT LED page 143

### Exit signs



IP40  
opticom  
TR AT LG

UP-LED EXIT page 149



IP42  
AT LG HT

INDICA LED page 157



IP40  
LG HT

PLEXILITE LED page 169



IP54  
LG HT

MAXIMA LED page 175

### Apparecchi e dispositivi ad elevate prestazioni


opticom  
TECHNOLOGY

OPTICAL COMMUNICATIONS SYSTEM BETWEEN SMARTPHONES AND LIGHTING DEVICES. CONTROL AND MANAGEMENT OF ALL PARAMETERS VIA A DEDICATED APP. LG, LGFM AND DALI EXPANSION MODULES, FOR EXPANDING OPTICOM AT DEVICES

SYSTEM page 4



AUTOTEST RIPARA (AR) SAFETY TECHNOLOGY: DOUBLES THE LUMINOUS FLUX OR AUTONOMY OF THE DEVICE AND ENSURES OPERATION EVEN IN THE CASE OF BATTERY FAILURE, THANKS TO THE SECONDARY "RIPARA" BATTERY.



DEVICES EQUIPPED WITH A BATTERY MADE FROM TITANIUM NANO-STRUCTURES

- LONG LIFESPAN (10 YEARS)
- EXTREME OPERATING TEMPERATURES: -30 + 75°C
- QUICK CHARGING: 80% IN LESS THAN 2 HOURS

TITANIUM BATTERY page 8



Type of system chosen: Emergency or illumination.



System details: Description of the system and of any lamp errors. The lamps can also be interrogated using the "optical synchronisation" push-button

## Patented optical technology for smartphone-based programming, for controlling and programming emergency lighting systems

Light that communicates with light - this is the operating principle of the new Beghelli-patented technology.

Opticom (**OPTI**cal **COM**munication technology), is an optical communication system which can transmit and receive information from an emergency device using the flash and the camera of a simple smartphone. The photosensor, fitted as standard on all AT Opticom emergency equipment, is designed to receive the light pulses transmitted by the flash before turning these into commands to the device itself.

This two-way optical communication techno-

logy enables the performance and functions of AT Opticom emergency devices to be modified, as well as **enabling users to automatically create a system logbook (as required by current legislation)**, simply by interrogating the devices with the flash. Each device responds via a flashing LED light, sending information pertaining to operation as well as details of any anomalies detected. All Opticom technology devices are already equipped with a unique code that is automatically added to the other relevant system information before being sorted and grouped in Beghelli Cloud which can be

accessed by the user at all times, greatly simplifying both the control and installation processes.

All operations are managed and stored by the dedicated OPTICOM Technology app, which is free to download for both iOS and Android systems: **via a series of simple commands, emergency devices can be programmed, adjusting the autonomy, the luminous flux, the device operation (SE-SA-PS), the frequency at which tests are performed on function and autonomy, as well as the name and location of the device in the system.**





**List of zones: it is possible to navigate between the zones into which the system has been divided.**



**Details of individual zones: list of installed devices, with any anomalies present highlighted**



**Lamp data sheet: This contains the technical information regarding the device, the fault history and any active errors.**

Lamp parameters can be adjusted via the Opticom Technology app

Through the dedicated app, Opticom Technology emergency devices can be set to different levels of autonomy in event of a blackout. Five steps can be selected for all Opticom emergency devices: 1h - 1.5h - 2h - 3h - 8h. In addition, the app enables the operator to directly set the battery charging speed and the operating mode (SE, SA, RM)

## opticom.beghelli.it

The portal is dedicated to all installers using Opticom technology, and consists of restricted area which can only be accessed by inserting a login and password. Installers can also monitor the list of systems installed from their smartphone or PC, as well as consulting the data for each individual device. The logbook for each system is also available, in order to meet all applicable regulatory requirements (location and photos, battery status, maintenance schedules and fault alerts).

The site also contains the most up-to-date information about Opticom technology: operating principles, commands and programming, as well as a list of compatible smartphones.



**Optical communication between a smartphone flash and the intelligent photosensor incorporated in AT Opticom emergency devices**

### AT Opticom Emergency lighting: the same device can operate as AT, LG, LGFM o DALI

The Opticom system offers enormous versatility, courtesy of its ability to integrate several additional modules into the basic electrical circuit, enhancing the performance of the device. Where the conditions of use require a centralised control system or DALI proto-

col, the device electronics feature a connector to connect the most suitable additional module:  
  
- The **LG Module** is used to centralise control of the system via a BUS and control unit system

- The **LGFM Module** is used to centralise control of the system via radio and FM control unit
- The **DALI module** is used to control the system via a DALI protocol

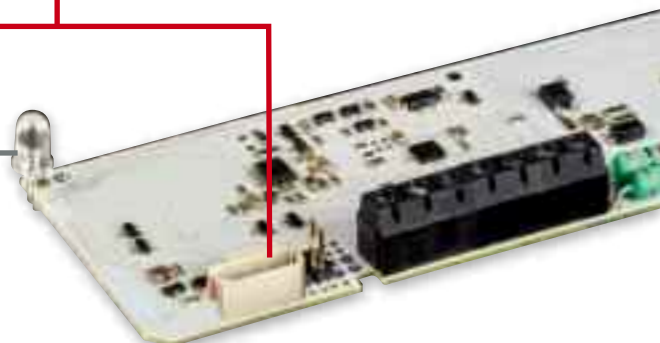


SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTOSENSOR SUPPLIED

opticom<sup>®</sup> Smartphone interface  
TECHNOLOGY Programming, interrogation and control system



#### System Modules

to be ordered separately

| Order code | Description         |      |
|------------|---------------------|------|
| 15036      | LG MODULE           | LG   |
| 15037      | LGFM MODULE         | LGFM |
| 15038      | DALI OPTICOM MODULE | DALI |



Example of the system specifications and the relative logbook screen which can be viewed on the portal at [opticom.beghelli.it](http://opticom.beghelli.it) and the corresponding data sheet (in PDF format) automatically generated by the software

**REGISTRO VERIFICHE PERIODICHE**  
Normative CEI EN 50172 e UNI 11222

**Nome azienda:** Rossi  
**Empianto:** BO  
**Partita IVA:** 12345678901

**Tipo di Test:** Verifica di funzionamento apparecchi  
**Data inizio:** 01/12/2016

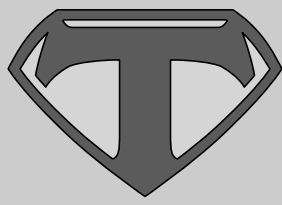
| Data fine Test | Zona                    | Identificativo | Apparecchio                    | Descrizione       | Annuità riscontrate | Provvedimenti | Data prossima verifica | Intervento effettuato da (nome, cognome, Società) | Firma responsabile verifica |
|----------------|-------------------------|----------------|--------------------------------|-------------------|---------------------|---------------|------------------------|---|-----------------------------|
| 12/12/2016     | UFF tecnico elettronico | 1              | Completo Led 24W AT OPTICOM SA | Parete sopraporta |                     |               |                        |   |                             |
| 12/12/2016     | Posto vendita           | 5              | Completo Led 24W AT OPTICOM SA | Soffitto          |                     |               |                        |   |                             |
| 12/12/2016     | Mensa                   | 12             | F65 Led 24W AT OPTICOM SA      | Zona cucine       |                     |               |                        |   |                             |
| 12/12/2016     | UFF Direzione Generale  | 13             | F65 Led 24W AT OPTICOM SA      | Parete laterale   |                     |               |                        |   |                             |

## 360° lamp information management

All Opticom Technology devices are connected to the Beghelli Cloud, from which the status of these can be checked. Connecting the LG and LGFM system modules creates an Opticom Technology system with centralised diagnostics functionality which communicates with the Beghelli Cloud in both directions.

Accordingly, the parameters can be adjusted directly via the web, or through the control unit. Thanks to this new technology, Logica and Sicuro (LG, LGFM, Sicuro24 and SLG) systems with centralised diagnostics functionality can also be viewed and changed on Beghelli Cloud.





## Super Battery: Opticom devices with 10 years warranty

The evolution of LED light sources has led to new levels of lighting efficiency and lifespan being achieved on new generation emergency devices, with results that would have been unthinkable just a few years ago.

Today, the new challenge in the emergency lighting sector lies in gaining even better control over light beams and energy accumulator quality, ensuring maximum efficiency in blackout conditions. The battery, which is the source of energy for the emergency lighting device, is the component which determines the performance limits, both in terms of charging time and with regard to reliability and effective power. Revolutionary **titanium dioxide** technology (Beghelli was the first company in the world to employ this in emergency illumination

solution) has increased the speed of ion transfer between the poles exponentially during the charge and discharge process, increasing battery power, energy density and safety whilst drastically reducing charging time. The electro-chemical characteristics of these cutting-edge accumulators offer enhanced protection under extreme conditions of use, such as when exposed to moisture, or in the event of a short-circuit.

Compared with conventional technologies, the differences in the charging time and capacity are extremely high.

**The titanium battery can reach 80% of its maximum capacity in less than 2 hours, compared with the 12/24h necessary for conventional emergency lamps**

### **THE POSITIVES**

- 1 Quick charging**  
The autonomy of an average-power device power reaches 80% in less than 2 hours of charging
- 2 Extreme operating temperatures**  
-30°C ÷ +75°C
- 3 Long life**  
With at least 7.000 recharging cycles, reaches a 10 years duration.
- 4 Maximum safety**  
The materials used in these devices do not react in the event that a short circuit or other accidental event occurs (moisture, perforation, etc ...)



Titanium battery provided as standard on all Opticom emergency devices:



Up•LED,  
Up•LED Multi,  
Up•LED Exit



Completa LED



Formula 65





# Acciaio Emergency LED

LED technology  
strong and intelligent  
for the highest-level of lighting



Incredible performance for LED emergency lighting in service and industrial applications. With a luminous flux of 1600lm, controlled by a 4-cell anti-glare aluminum reflector, Acciaio Emergency LED has no comparison. The strong structure comes from the combination of technological materials such as Steel, Technopolymer and Micro-prismatic tempered glass that create a device suitable for installation in demanding contexts as reflected in the ATEX certification and the IK09 and IP65 protection degrees. In addition, the Ice Pack system is easily integrated in the device for installation in extreme conditions, assuring correct functioning over time at temperatures of even -40°.



CONFORMS TO  
ATEX 94/9/EC DIRECTIVE  
FOR ZONES 2 AND 2  
with accessories to be ordered  
separately

# Acciaio Emergency LED

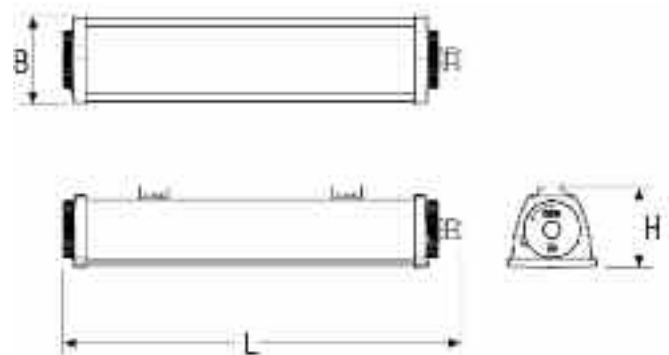
## Emergency ceiling light

Acciaio Emergency LED is the answer to the need for high technology products for particularly demanding high risk applications. The steel body and the glass shield offer excellent mechanical strength (IK09) and protection against aggressive chemical agents. In the industrial context, it is perfect for installations in explosive atmosphere spaces created by alterations in gassy substances and the presence of air-suspended combustible powder (pursuant to ATEX 94/9/EC regulation for zones 02 and 22).

The optical system consists of a reflector that is subdivided in 4 cells for excellent light distribution and a special micro-prismatic glass with extremely high light transmission for greater visual comfort.

Acciaio Emergency LED is suitable for use in demanding contexts including outside environments that are directly exposed to the elements. It is designed to resist mechanical vibrations and electromagnetic disturbances that are typical of industrial environments. The special steel brackets allow the device to be positioned as required. A compatible accessory, ordered separately, warms the battery and permits installation in sites with temperatures as low as -40°C.

You can add a separate AUTORIPARA battery to increase the luminous flux to 1600 lm.



| Power**<br>W | • Dimensions (mm) • |     |      | Weight<br>max kg |
|--------------|---------------------|-----|------|------------------|
|              | L                   | B   | H    |                  |
| 24. 24S      | 464                 | 108 | 98.5 | 3.2              |

\* Equivalent power for comparison with fluorescent tube devices

### GENERAL CHARACTERISTICS

**Equivalent power\*** 24

**Autonomy** 1h, 2h, 3h

**Operation** Permanent (SA), Non-permanent (SE)  
Rest Mode: with optional control device  
(cod. 12101)

**Conformity** EN 60598-1, EN 60598-2-2,  
EN 60598-2-22, EN 1838, UNI 11222,  
ATEX 2014/34/UE

**ATEX Classification** II 3 G Ex nA II B T135,  
II 3 D Ex tD A22 T85

**Protection level** IP66

**Protection from knocks** IK09

**Environmental temp. SE** 0 ÷ +50 °C

**Environmental temp. SA** 0 ÷ +40 °C

**Temp. with ICE PACK** -40 ÷ +50 °C (+40°C SA Model)

**Installations** wall, ceiling, suspension, electric rail

**Body** RAL 7035 polyester powder coated  
steel sheet

**Heads** Tecnopolymer PC+PBT

**Optic** Anti-glare aluminum diffusing

**Shield** tempered micro-prismatic  
high transmission (3mm) glass

**Light source** LED



\* Equivalent power for comparison with fluorescent tube devices

### Polar Diagram



Standard optic

### WALL INSTALLATION



ADJUSTABLE BRACKET

## Autoripara Battery



- 1 SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux
- 2**
- AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device
- 3**

## Accessories

to be ordered separately

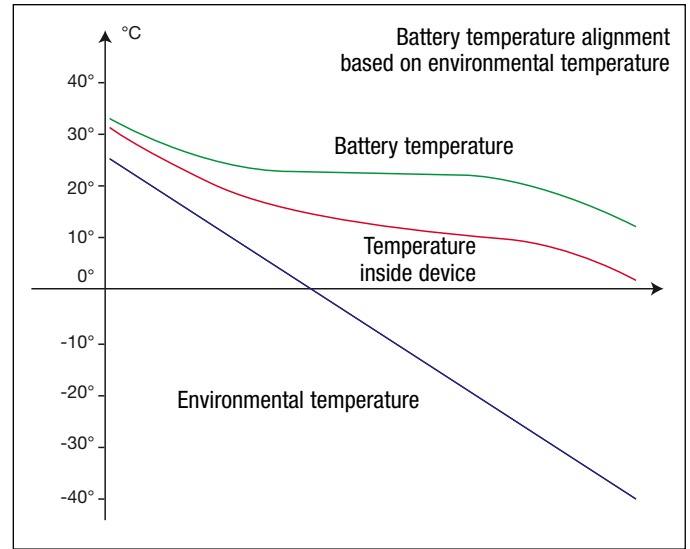
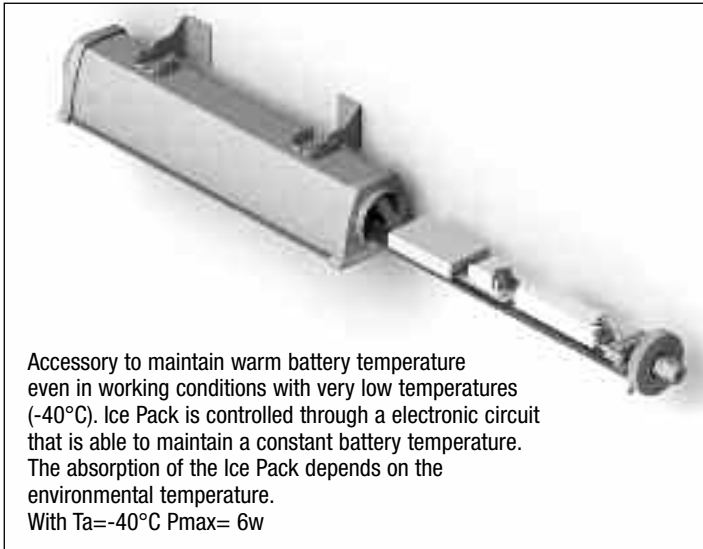
| Order code   | Description                          |
|--------------|--------------------------------------|
| <b>19046</b> | ICE PACK BATTERY                     |
| <b>RA02</b>  | AUTORIPARA SYSTEM NIMH 7.2V 1.7AH    |
| <b>12101</b> | REMOTE CONTROL (RM INHIBIT FUNCTION) |
| <b>19064</b> | SCREEN BAND DX/SX/BS ACC EM          |

## Accessories

in dotazione

| Cod. ord. | Descrizione                                 |
|-----------|---|
| -         | POSITIONABLE BRACKETS FOR WALL INSTALLATION |





19046 ICE PACK

to be ordered separately

**LG** Logica

| W* | Order code | Description                 | Model | Autonomy | Battery         | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|-----------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 15030      | ACC EM LED 24 LG SE/SA 123H | SE/SA | 1h/2h/3h | NiMh 7.2V 1.2Ah | 32     | 400/275/200        |                       | 220                | 4/4.5            | 1.4       | 1           |

**LGFM** Logica FM

| W* | Order code | Description                   | Model | Autonomy | Battery         | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|-------------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 15031      | ACC EM LED 24 LGFM SE/SA 123H | SE/SA | 1h/2h/3h | NiMh 7.2V 1.2Ah | 32     | 400/275/200        |                       | 220                | 4/4.5            | 1.4       | 1           |

**LG-AR Granluce** Logica Ripara

| W* | Order code | Description                  | Model | Autonomy | Battery         | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|------------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 15032      | ACC EM LED 24 LGAR SE 123H S | SE    | 1h/2h/3h | NiMh 7.2V 1.7Ah | 32     | 800/400/270        | 1600/800/550          |                    | 1.7              | 1.5       | 1           |

**LGFM-AR Granluce** Logica FM Ripara

| W* | Order code | Description                    | Model | Autonomy | Battery         | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|--------------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 15033      | ACC EM LED 24 LGFMAR SE 123H S | SE    | 1h/2h/3h | NiMh 7.2V 1.7Ah | 32     | 800/400/270        | 1600/800/550          |                    | 1.7              | 1.5       | 1           |

**SLG**

| W* | Order code | Description       | Model | Autonomy | Battery | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|-------------------|-------|----------|---------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 17455      | ACC EM LED SLG 3W | -     | -        | -       | 32     | 400                | -                     | -                  | 4                | 1.4       | 1           |


**SICURO 24V**

| W* | Order code | Description               | Model | Autonomy | Battery | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|---------------------------|-------|----------|---------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 17498      | ACC EM LED SLGS 24W 6/12W | -     | -        | -       | 32     | 800/1600           | -                     | 1600               | 8/16             | 1.4       | 1           |

**HT** Mains voltage power supply (ca 230V 50 Hz - cc 216V)

| W* | Order code | Description       | Model | Autonomy | Battery | N° LED | Average flux SE lm | Average flux AR SE lm | Average flux SA lm | Absorption max W | Weight kg | Pack single |
|----|------------|-------------------|-------|----------|---------|--------|--------------------|-----------------------|--------------------|------------------|-----------|-------------|
| 24 | 17452      | ACC EM LED HT 12W | -     | -        | -       | 32     | 1600               | -                     | 1600               | 12               | 1.5       | 1           |

\* Equivalent power for comparison with florescent tube devices  
Contact the Beghelli sales network for SICURO 24, SLG and HT models



Installation in applications subject to the ATEX94/9/EC DIRECTIVE as well as the elevated height of installation demand top class light engineering performance.

The installation of the ICE PACK accessory completes the safety profile for mountain areas or those subjected to low temperatures.





# Logica LED

The technological future  
of centralised emergency  
wall, ceiling, recessed, suspended ceiling



The perfect technological expression of LED emergency lighting.

A housing especially studied to guarantee IP65 protection degree made with modern and rational design. The installation system is with a lock-in bracket that ensure simple and fast connection..

In the Logica LED, particular care was devoted to the study of the louvre: with the aid of optical design software of the latest generation, the particular features of LED lighting have been optimised, achieving a minimal geometric shape that nevertheless allows total control of light reflections.

The maximum of performance both in terms of average flux and uniformity and size of lighting.



**1500 lumen**

#### GENERAL CHARACTERISTICS

- Power\*\*** 8, 11, 24 W
- Power supply** 230Vac ± 10% 50/60Hz
- Operation** Non Permanent (SE),  
Permanente/Pubblico Spettacolo (SA/PS)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
- Protection grade** IP65
- Autonomy** 1h, 2h, 3h, up to 6h for the 8W version (settable with DIP switch)
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling, recessed, suspended ceiling
- Housing** Grey Polycarbonate, RAL 7035
- Optics** Symmetrical, metallized antiglare Polycarbonate
- Louvre** Transparent Polycarbonate
- Light source** LED

\*\* Indicative power for comparison with fluorescent tube fixtures

## Logica LED

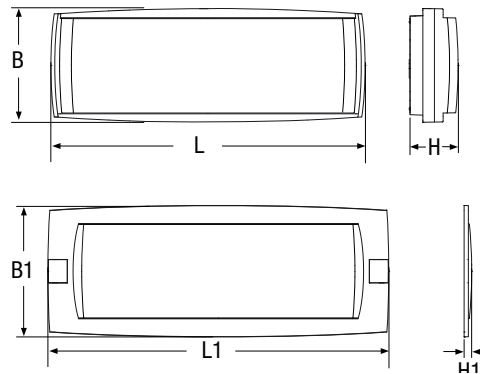
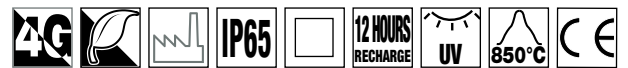
### LED Emergency

This emergency lighting fixture is characterised by particularly sophisticated electronic technology. Logica LED is the only emergency lighting fixture, supplied in a centralised version (LG, LGFM), which configures automatically in an Autotest version (AT) if not connected to a control unit.

The circuit also allows the fixture to be customised to suit the necessities of use, adjusting its autonomy (1h/2h/3h, up to 6h for the 8W version) and, in the case of the SA maintained version, it can be switched to a PS version, adjusting the light intensity according to the requirements of the type of public establishment. The latter opportunity is a winner when the safety sign becomes the only visible element. It must therefore be immediately identifiable, elegant, non invasive and uniform in all fixtures.

Thanks to the symmetry and extreme uniformity of lighting that characterise the Logica LED, it can be installed, without a predefined orientation, on the wall, on the ceiling and recessed using the kit provided, complete with box and a frame that covers the wires.

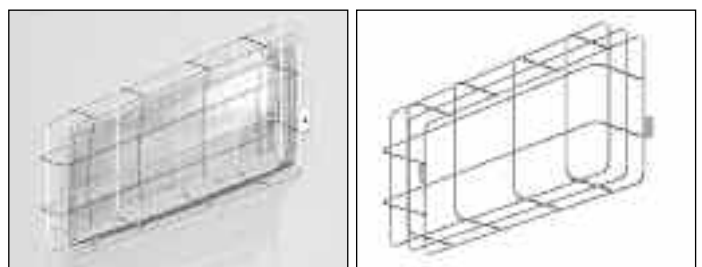
Inside the housing is a louvre with dual reflection, which in turn contains two series of highly efficient LEDs that ensure unprecedented technical lighting output (up to 1500lm). The highly transparent Polycarbonate diffuser has been designed to seal the optics and obtain Protection degree IP65.



| Power**<br>W | • Dimensions (mm) • |     |    |     |     |    | Diffuser visibility (DV)<br>distance |
|--------------|---------------------|-----|----|-----|-----|----|--------------------------------------|
|              | L                   | B   | H  | L1  | B1  | H1 |                                      |
| 8            | 406                 | 147 | 63 | 440 | 170 | 10 | 20                                   |
| 11           | 406                 | 147 | 63 | 440 | 170 | 10 | 20                                   |
| 24           | 406                 | 147 | 63 | 440 | 170 | 10 | 20                                   |

\*\* Indicative power for comparison with fluorescent tube fixtures

#### LOGICA METAL GRID



**12194** LOGICA METAL GRID

to be ordered separately

## Accessories

supplied

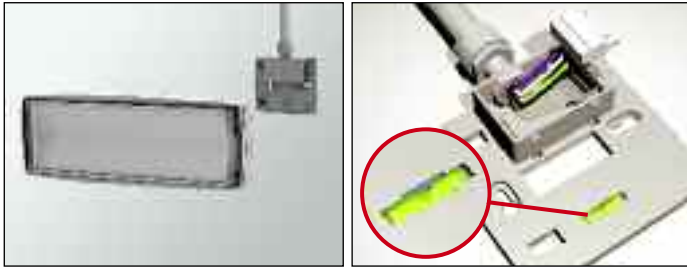
| Order code   | Description  |
|--------------|--|
| -            | LOGICA CABLE GLAND                                 |
| <b>12198</b> | RECESSED BOX LOGICA IP65                           |
| <b>12199</b> | RAPID WALL FIXING BRACKET                          |
| <b>4072</b>  | ADES. LEFT, RIGHT, DOWN LOGICA (SA/PS MODELS ONLY) |

## Accessories

to be ordered separately

| Order code   | Description                      |
|--------------|----------------------------------|
| <b>12190</b> | LOGICA PS RIGHT DIFFUSER         |
| <b>12191</b> | LOGICA PS LEFT DIFFUSER          |
| <b>12192</b> | LOGICA PS DOWN DIFFUSER          |
| <b>4072</b>  | ADES. LEFT, RIGHT, DOWN LOGICA   |
| <b>12194</b> | LOGICA LAMP LOUVRE               |
| <b>12193</b> | LOGICA SUSPENDED CEILING BRACKET |

## WALL MOUNTING WITH RAPID BRACKET AND SPIRIT LEVEL



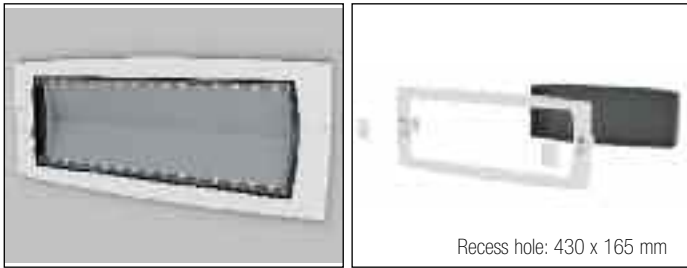
**12199** RAPID WALL FIXING BRACKET supplied

## MOUNTING ON A PLASTERBOARD SUSPENDED CEILING



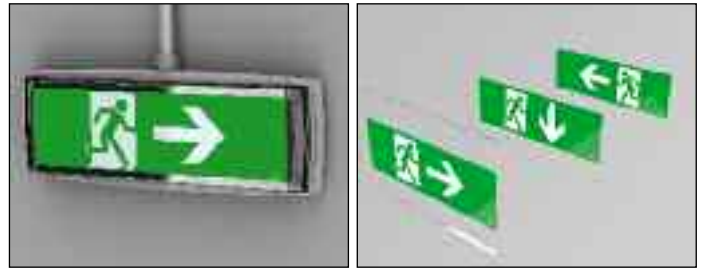
**12193** LOGICA SUSPENDED CEILING BRACKET to be ordered separately

## RECESSED MOUNTING



**12198** LOGICA IP65 RECESSED BOX supplied

## LOGICA DIFFUSERS



**12175** LOGICA PS RIGHT DIFFUSER to be ordered separately

**12176** LOGICA PS LEFT DIFFUSER to be ordered separately

**12177** LOGICA PS DOWN DIFFUSER to be ordered separately

## LG

Logica

| W** | Order code    | Description                   | Model | Autonomy | Battery         | N° LED | Flux* SE lm  | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|---------------|-------------------------------|-------|----------|-----------------|--------|--------------|------------|--------------|-----------|------|
| 8   | <b>12182</b>  | LOG LED LG 8W SE 2/4/6H       | SE    | 2/4/6h   | Pb 6V 4Ah       | 30     | 750/450/350  | -          | 4            | 2.2       | 6    |
| 8   | <b>12185</b>  | LOG LED LG 8W SA/PS 2/4/6H    | SA/PS | 2/4/6h   | NiMh 7.2V 2.5Ah | 30     | 750/450/350  | 400        | 4/8          | 2.2       | 6    |
| 11  | <b>12183</b>  | LOG LED LG 11W SE 1/2/3H      | SE    | 1,5/3/4h | Pb 6V 4Ah       | 30     | 900/550/450  | -          | 4            | 2.2       | 6    |
| 11  | <b>12186</b>  | LOG LED LG 11W SA/PS 1,5/3/4H | SA/PS | 1,5/3/4h | NiMh 7.2V 2.5Ah | 30     | 900/550/450  | 500        | 4/10         | 2.2       | 6    |
| 24  | <b>12184</b>  | LOG LED LG 24W SE 1/2/3H      | SE    | 1/2/3h   | Pb 6V 4Ah       | 30     | 1100/750/550 | -          | 6            | 2.2       | 6    |
| 24  | <b>12187</b>  | LOG LED LG 24W SA/PS 1/2/3H   | SA/PS | 1/2/3h   | NiMh 7.2V 2.5Ah | 30     | 1100/750/550 | 600        | 6/14         | 2.2       | 6    |
| 24  | <b>12184S</b> | LOG LED LG 24W SE 1/2/3H S    | SE    | 1/2/3h   | NiMh 7.2V 4Ah   | 30     | 1500/900/700 | -          | 6            | 2.2       | 6    |
| 24  | <b>12187S</b> | LOG LED LG 24W SA/PS 1/2/3H S | SA/PS | 1/2/3h   | NiMh 7.2V 4Ah   | 30     | 1500/900/700 | 750        | 6/15         | 2.2       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22

## LGFM

Logica FM

| W** | Order code      | Description                     | Model | Autonomy | Battery         | N° LED | Flux* SE lm  | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|-----------------|---------------------------------|-------|----------|-----------------|--------|--------------|------------|--------------|-----------|------|
| 8   | <b>12182FM</b>  | LOG LED LGFM 8W SE 2/4/6H       | SE    | 2/4/6h   | Pb 6V 4Ah       | 30     | 750/450/350  | -          | 5            | 2.2       | 6    |
| 8   | <b>12185FM</b>  | LOG LED LGFM 8W SA/PS 2/4/6H    | SA/PS | 2/4/6h   | NiMh 7.2V 2.5Ah | 30     | 750/450/350  | 400        | 5/9          | 2.2       | 6    |
| 11  | <b>12183FM</b>  | LOG LED LGFM 11W SE 1,5/3/4H    | SE    | 1,5/3/4h | Pb 6V 4Ah       | 30     | 900/550/450  | -          | 5            | 2.2       | 6    |
| 11  | <b>12186FM</b>  | LOG LED LGFM 11W SA/PS 1,5/3/4H | SA/PS | 1,5/3/4h | NiMh 7.2V 2.5Ah | 30     | 900/550/450  | 500        | 5/15         | 2.2       | 6    |
| 24  | <b>12184FM</b>  | LOG LED LGFM 24W SE 1/2/3H      | SE    | 1/2/3h   | Pb 6V 4Ah       | 30     | 1100/750/550 | -          | 7            | 2.2       | 6    |
| 24  | <b>12187FM</b>  | LOG LED LGFM 24W SA/PS 1/2/3H   | SA/PS | 1/2/3h   | NiMh 7.2V 2.5Ah | 30     | 1100/750/550 | 600        | 7/15         | 2.2       | 6    |
| 24  | <b>12184FMS</b> | LOG LED LGFM 24W SE 1/2/3H S    | SE    | 1/2/3h   | NiMh 7.2V 4Ah   | 30     | 1500/900/700 | -          | 7            | 2.2       | 6    |
| 24  | <b>12187FMS</b> | LOG LED LGFM 24W SA/PS 1/2/3H S | SA/PS | 1/2/3h   | NiMh 7.2V 4Ah   | 30     | 1500/900/700 | 750        | 7/16         | 2.2       | 6    |

## SLG

| W** | Order code   | Description       | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|--------------|-------------------|-------|----------|---------|--------|-------------|------------|--------------|-----------|------|
| 8   | <b>17303</b> | LOGICALED SLG 8W  | -     | -        | -       | 30     | -           | 400        | 4            | 1.8       | 6    |
| 24  | <b>17305</b> | LOGICALED SLG 24W | -     | -        | -       | 30     | -           | 600        | 6,5          | 1.8       | 6    |

## HT

Mains voltage power supply (ca 230V 50 Hz - cc 216V)

| W** | Order code   | Description      | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|--------------|------------------|-------|----------|---------|--------|-------------|------------|--------------|-----------|------|
| 8   | <b>17403</b> | LOGICALED HT 8W  | -     | -        | -       | 30     | -           | 400        | 4            | 1.8       | 6    |
| 24  | <b>17405</b> | LOGICALED HT 24W | -     | -        | -       | 30     | -           | 600        | 6,5          | 1.8       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22



Architectural installations require the outmost performance in design and safety.







# UP•LED

High strength LED

Superior performance,  
technology

compact size, more features

The UpLED is a device which only comes in five versions, but each of these has been developed in order to meet a much wider range of requirements (6 to 36 W, SE-SA-RM, 1-2-3 hrs of autonomy). The product concept is based on a revolutionary optical system with 4 precision lenses, which allow for the power of the LEDs to be fully exploited: this is the first time ever that a device has been constructed in accordance with the highest-performance LEDs available. The main feature of UpLED is the superb illumination it provides, whilst maintaining extremely compact dimensions. The 24-36 W version provides 450 lumens of light, and is just 20 mm thick. In the interests of multi-functionality, UpLED is the first emergency fixture with signage that allows for two signs of different sizes to be used on the same product, for visibility distances of 20 or 30 metres. This highly-innovative system, which is totally unprecedented in the emergency and signage lighting, is designed both to illuminate the sign in a powerful, uniform manner and to direct a beam of light at the ground, illuminating the emergency exit below the device. Last but not least, we come to the mechanical features: despite its somewhat minimalist appearance and compact size (the smallest in its category), the O-ring mounting systems, the housing of the device and the connection accessories ensure that the UpLED offers IP65-grade protection, and IK07 shock resistance over time.

# UP•LED AT Opticom

## LED Emergency



### GENERAL CHARACTERISTICS

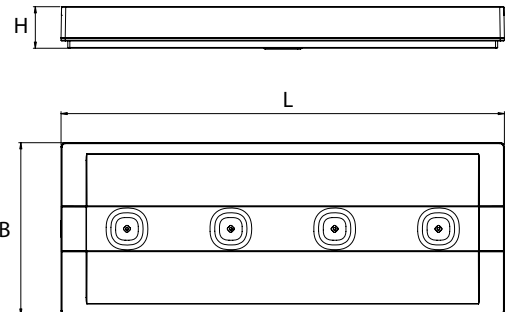
|                         |  |
|-------------------------|--|
| <b>Power*</b>           | 11-24, 24-36w  |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz                                    |
| <b>Operation</b>        | Permanent (SA), Non Permanent (SE)                   |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-22,<br>UNI EN 1838, UNI 11222 |
| <b>Protection grade</b> | IP65 - IK07  |
| <b>Autonomy</b>         | 1h, 1,5h, 2h, 3h, 8h                                 |
| <b>Working temp.</b>    | -20°C ÷ +50°C (Titanium Battery)                     |
| <b>Mounting</b>         | wall, ceiling, three-phase binary                    |
| <b>Control Gear</b>     | Electronic control gear with constant current        |
| <b>Housing</b>          | White Polycarbonate, RAL 9003                        |
| <b>Optics</b>           | Transparent Polycarbonate lenses                     |
| <b>Light source</b>     | LED  |

\* Indicative power for comparison with fluorescent tube fixtures

The product concept is based on a revolutionary optical system with 4 precision lenses, which allows for the power of the LEDs to be fully exploited: this is the first time ever that a device has been constructed in accordance with the highest-performance LEDs available. The main feature of the UpLED is the superb illumination it provides, whilst maintaining extremely compact dimensions. The 24-36 W version provides 450 lumens of light, and is just 20 mm thick.

In the interests of multi-functionality, UpLED is the first emergency lighting appliance which allows for two signs of different sizes to be used on the same product, for visibility distances of 20 or 30 metres. This highly-innovative system, which is totally unprecedented in the emergency lighting sector, is designed both to illuminate the sign in a powerful, uniform manner and to direct a beam of light at the ground, illuminating the emergency exit below the device. Last but not least, we come to the mechanical features of this device: despite its somewhat minimalist appearance and compact size (the smallest in its category), the O-ring mounting systems, the housing of the device and the connection accessories ensure that the UpLED offers IP65-grade protection, and IK07 shock resistance over time.

Available in SE and SA versions, the operating autonomy (1 hr, 1.5 hrs, 2 hrs, 3 hrs, 8 hrs) can be selected on each model, changing the luminous flux. The entire range is equipped with all the accessories necessary for converting these devices into illuminated signs, with visibility distances of 20 to 30 metres.



| Power*<br>W | • Dimensions (mm) • |    |    |  | DV    |
|-------------|---------------------|----|----|--|-------|
|             | L                   | B  | H  |  |       |
| 11-24       | 213                 | 83 | 20 |  | 20/30 |
| 24-36       | 213                 | 83 | 20 |  | 20/30 |

\* Indicative power for comparison with fluorescent tube fixtures

## Titanium Battery



- 1 QUICK CHARGING:** the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours
- 2 Withstands extreme operating temperatures:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

### Titanium recharge Time (max)

|         |        |
|---------|--------|
| 11-24 W | 45 min |
| 24-36 W | 90 min |

## Accessories

to be ordered separately

| Order code  | Description                      |
|-------------|----------------------------------|
| <b>4310</b> | SCREEN RIGHT-LEFT-DOWN UPLED 20M |
| <b>4311</b> | SCREEN RIGHT-LEFT-DOWN UPLED 30M |
| <b>4319</b> | THREE-PHASE BINARY KIT           |

## Accessories

supplied

| Order code | Description   |
|------------|---|
| -          | CONNECTION COUPLING IP65                                  |
| -          | 2 REAR SPACERS FOR MOUNTING WITH CONNECTION COUPLING IP65 |
| -          | 2 CAPS IP65   |
| -          | CABLE GLAND IP65  |

## System Modules

to be ordered separately

| Order code   | Description         |      |
|--------------|---------------------|------|
| <b>15036</b> | LG MODULE           | LG   |
| <b>15037</b> | LGFM MODULE         | LGFM |
| <b>15038</b> | DALI OPTICOM MODULE |      |

MODULO DALI

MODULO LG

MODULO LGFM

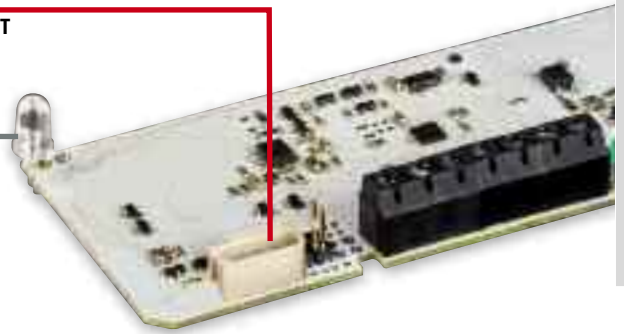
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTOSENSOR SUPPLIED

opticom TECHNOLOGY

Smartphone interface  
Programming, interrogation and control system



UP LED

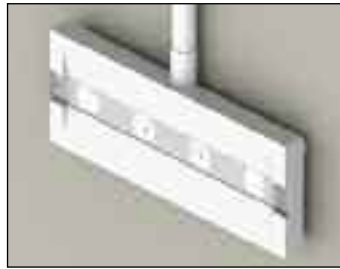
WALL MOUNTING



SPIRIT LEVEL



MOUNTING IP65 WITH CONNECTION COUPLING



4318 IP65 UP LED 824 ACCESSORY

to be ordered separately

DIFFUSER 20-30M VISIBILITY DISTANCE



4310 BANDIERA DIFFUSER FRAME RIGHT/LEFT/ DOWN 20m to be ordered separately

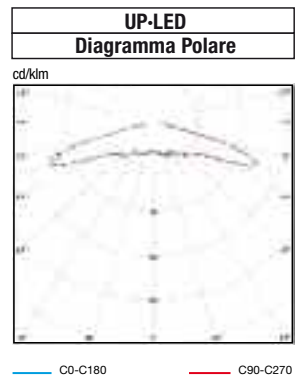
4311 BANDIERA DIFFUSER FRAME RIGHT/LEFT/ DOWN 30m to be ordered separately

THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately



AT



opticom TECHNOLOGY

| W*    | Order code | Description                   | Model | Autonomy     | Battery        | N° LED | 1h  | Average Flux* SE lm |     |     |    |     | Average Flux SA lm | Power consumpt. max W | Weight kg | Pack single |
|-------|------------|-------------------------------|-------|--------------|----------------|--------|-----|---------------------|-----|-----|----|-----|--------------------|-----------------------|-----------|-------------|
|       |            |                               |       |              |                |        |     | 1,5h                | 2h  | 3h  | 8h |     |                    |                       |           |             |
| 11-24 | 4370       | UPLD 1124W IP65 AT OPT SE8LTO | SE    | 1-1,5-2-3-8h | LTO 4.8V 0.5Ah | 4      | 250 | 170                 | 130 | 85  | 35 | -   | 7,5                | 0,3                   | 1/12      |             |
| 24-36 | 4371       | UPLD 2436W IP65 AT OPT SE8LTO | SE    | 1-1,5-2-3-8h | LTO 4.8V 1Ah   | 4      | 450 | 305                 | 230 | 155 | 65 | -   | 7,5                | 0,3                   | 1/12      |             |
| 11-24 | 4372       | UPLD 1124W IP65 AT OPT SA8LTO | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 0.5Ah | 4      | 250 | 170                 | 130 | 85  | 35 | 110 | 7,5                | 0,3                   | 1/12      |             |
| 24-36 | 4373       | UPLD 2436W IP65 AT OPT SA8LTO | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 1Ah   | 4      | 450 | 305                 | 230 | 155 | 65 | 200 | 7,5                | 0,3                   | 1/12      |             |

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038



# UP•LED

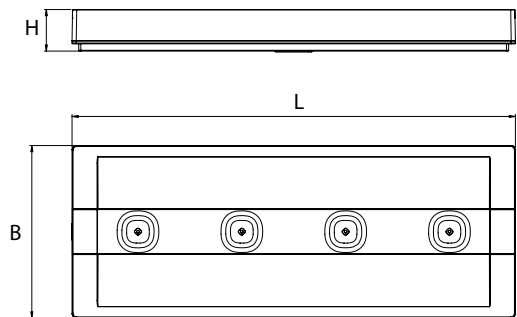
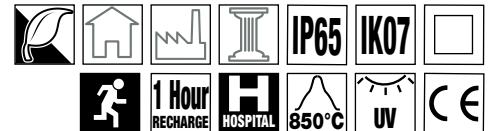
## LED Emergency

Emergency luminaire offering extreme flexibility of use. Less than 20 mm thick, this device boasts a strong, innovative aesthetic. The combination of compactness, superb performance, flexible installation and IP65-rating protection make the UP •LED ideal for any type of installation. Available in SE and SA versions, the operating autonomy (1 hr, 2 hrs, 3 hrs) can be selected on each model, changing the luminous flux. The entire range is equipped with all the accessories necessary for converting these devices into illuminated signs, with 20 m and 30 m visibility.

### GENERAL CHARACTERISTICS

- Power\*** 6-8, 11-24, 24-36w
- Power supply** 230Vac +/- 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE)  
Rest Mode: with optional control gear (cod. 2730)
- Standard** EN 60598-1, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection grade** IP65 - IK07
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling, three-phase binary
- Alimentatore** Electronic control gear with constant current
- Housing** White Polycarbonate, RAL 9003
- Optics** Transparent Polycarbonate lenses
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



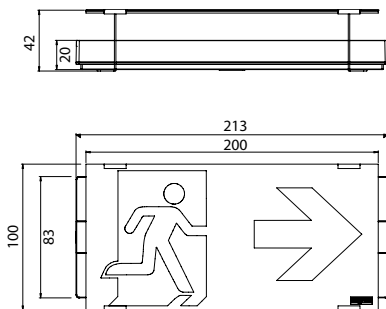
| Power*<br>W | • Dimensions (mm) • |    |    | DV    |
|-------------|---------------------|----|----|-------|
|             | L                   | B  | H  |       |
| 6-8         | 213                 | 83 | 20 | 20/30 |
| 11-24       | 213                 | 83 | 20 | 20/30 |
| 24-36       | 213                 | 83 | 20 | 20/30 |

\* Indicative power for comparison with fluorescent tube fixtures

## Accessories

supplied

| Order code | Description   |
|------------|---|
| -          | CONNECTION COUPLING IP65                                  |
| -          | 2 REAR SPACERS FOR MOUNTING WITH CONNECTION COUPLING IP65 |
| -          | 2 CAPS IP65   |
| -          | CABLE GLAND IP65  |

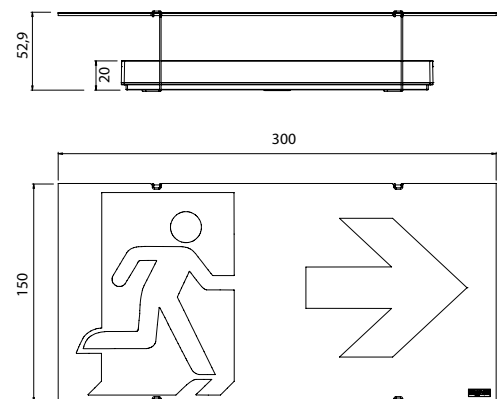


**DIFFUSER - visibility distance 20 m**

## Accessories

to be ordered separately

| Order code  | Description               |
|-------------|---------------------------|
| <b>4310</b> | SCREEN R-L-DOWN UPLED 20M |
| <b>4311</b> | SCREEN R-L-DOWN UPLED 30M |
| <b>4319</b> | THREE-PHASE BINARY KIT    |



**DIFFUSER - visibility distance 30 m**

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED 824 ACCESSORY

to be ordered separately

**DIFFUSER 20-30M VISIBILITY DISTANCE**



**4310** BANDIERA DIFFUSER WITH FRAME RIGHT/LEFT/ DOWN 20m to be ordered separately

**4311** BANDIERA DIFFUSER WITH FRAME RIGHT/LEFT/ DOWN 30m to be ordered separately

**THREE-PHASE BINARY MOUNTING**



**4319** THREE-PHASE BINARY KIT

to be ordered separately

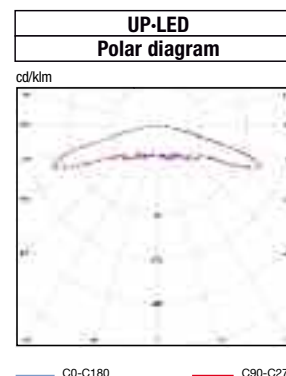


**Red warning LED:**  
**BATTERY**  
**MALFUNCTION**

**Green warning LED:**  
**FIXTURE**  
**FULLY EFFICIENT**

**BATTERY CONTROL SYSTEM**

The warning LED follows new protocols linked to compliance with Standard CEI EN 60598-2-22, which expressly requires the signalling of a battery malfunction which, in the case of UP•LED, is indicated instantaneously with the appearance of the colour red on the multicolour warning led (Battery Control System BCS).



**TR**

**BCS - Battery Control System**

| W*    | Order code  | Description                    | Model | Autonomy | Battery           | N° LED | Flux* SE lm |     |     | Flux SA lm | Absorption max W | Weight kg | Pack single |
|-------|-------------|--------------------------------|-------|----------|-------------------|--------|-------------|-----|-----|------------|------------------|-----------|-------------|
|       |             |                                |       |          |                   |        | 1h          | 2h  | 3h  |            |                  |           |             |
| 6-8   | <b>4300</b> | UP LED 6-8W SE 1/2/3N IP65     | SE    | 1/2/3h   | NiCd 3,6V 0,75 Ah | 4      | 240         | 140 | 95  | -          | 0,8              | 0,25      | 12          |
| 11-24 | <b>4301</b> | UP LED 11-24W SE 1/2/3H IP65   | SE    | 1/2/3h   | NiMh 3,6V 1,2 Ah  | 4      | 340         | 195 | 130 | -          | 0,8              | 0,25      | 12          |
| 24-36 | <b>4302</b> | UP LED 24-36W SE 1/2/3H IP65   | SE    | 1/2/3h   | NiMh 3,6V 1,5 Ah  | 4      | 450         | 240 | 170 | -          | 1,2              | 0,27      | 12          |
| 11-24 | <b>4303</b> | UP LED 11-24W SARM 1/2/3H IP65 | SA/SE | 1/2/3h   | NiMh 3,6V 1,2 Ah  | 4      | 340         | 195 | 130 | 180        | 3,0              | 0,25      | 12          |
| 24-36 | <b>4304</b> | UP LED 24-36W SARM 1/2/3H IP65 | SA/SE | 1/2/3h   | NiMh 3,6V 1,5 Ah  | 4      | 450         | 240 | 170 | 240        | 3,5              | 0,27      | 12          |

\* Minimum flux guaranteed according to EN 60598-2-22

# UP•LED 824

## LED Emergency



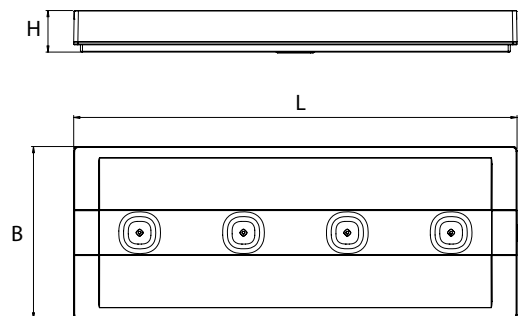
### GENERAL CHARACTERISTICS

|                            |  |
|----------------------------|--|
| <b>Power*</b>              | 24W (S-M-L)  |
| <b>Power supply</b>        | 120Vac +/- 10% 60Hz<br>230Vac +/- 10% 50Hz   |
| <b>Operation</b>           | Permanent (SA), Non Permanent (SE)<br>Rest Mode: with optional control gear<br>(cod. 2730) |
| <b>Standard</b>            | EN 60598-1, EN 60598-2-22, UNI EN<br>1838, UNI 11222                                       |
| <b>Gradi di protezione</b> | IP42, IK07 - IP65 optional   |
| <b>Autonomy</b>            | 1,5-2h   |
| <b>Working temp.</b>       | 0°C ÷ +40°C  |
| <b>Mounting</b>            | wall, ceiling, three-phase binary  |
| <b>Housing</b>             | White Polycarbonate, RAL 9003  |
| <b>Optics</b>              | Opaline Polycarbonate lenses   |
| <b>Light source</b>        | LED  |

\* Indicative power for comparison with fluorescent tube fixtures

The UpLED 824 is a device which only comes in five versions, but each of these have been developed in order to meet a much wider range of requirements (8 to 24W, SE-SA-RM, 1.5-2 hours of autonomy).

The product concept is based on a revolutionary optical system with 4 precision lenses, which allows for the power of the LEDs to be fully exploited: this is the first time ever that a device has been constructed in accordance with the highest-performance LEDs available. The main feature of UpLED 824 is the superb illumination it provides, whilst maintaining extremely compact dimensions. In the interests of multi-functionality, UpLED 824 is the first emergency lighting appliance which allows for two signs of different sizes to be used on the same product, for visibility distances of 20 or 30 metres. This highly-innovative system, which is totally unprecedented in the safety signage sector, is designed both to illuminate the sign in a powerful, uniform manner and to direct a beam of light at the ground, illuminating the emergency exit below the device. Last but not least, we come to the mechanical features of this device: despite its somewhat minimalist appearance and compact size (the smallest in its category), the O-ring mounting systems, the housing of the device and the connection accessories ensure that the UpLED offers IP65-grade protection (with the installation of the IP65 UpLED 824 accessory), and IK07 shock resistance over time.

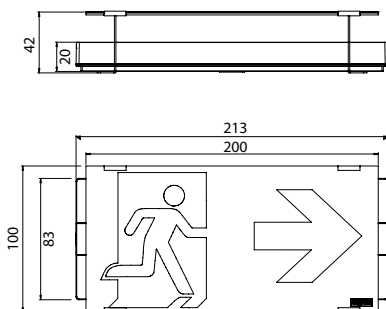


## Accessories

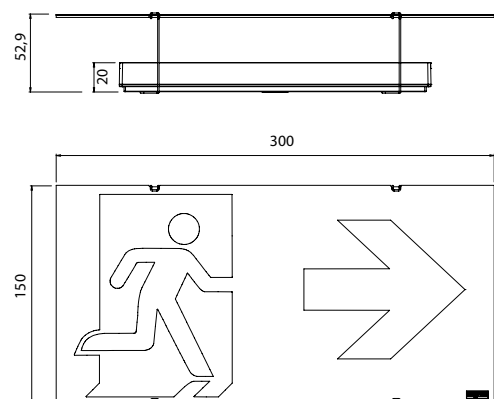
to be ordered separately

| Order code | Description                      |
|------------|----------------------------------|
| 4310       | SCREEN RIGHT-LEFT-DOWN UPLED 20M |
| 4311       | SCREEN RIGHT-LEFT-DOWN UPLED 30M |
| 4318       | IP65 UPLED 824 ACCESSORY         |
| 4319       | THREE-PHASE BINARY KIT           |

| Size | • Dimensions (mm) • |    |    |       |
|------|---------------------|----|----|-------|
|      | L                   | B  | H  | DV    |
| S    | 213                 | 83 | 20 | 20/30 |
| M    | 213                 | 83 | 20 | 20/30 |
| L    | 213                 | 83 | 20 | 20/30 |



**DIFFUSER - visibility distance 20 m**



**DIFFUSER - visibility distance 30 m**



**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED 824 ACCESSORY

*to be ordered separately*

**DIFFUSER 20-30M VISIBILITY DISTANCE**



**4310** BANDIERA DIFFUSER WITH FRAME RIGHT/LEFT/ DOWN 20m *to be ordered separately*

**4311** BANDIERA DIFFUSER WITH FRAME RIGHT/LEFT/ DOWN 30m *to be ordered separately*

**THREE-PHASE BINARY MOUNTING**



**4319** THREE-PHASE BINARY KIT

*to be ordered separately*

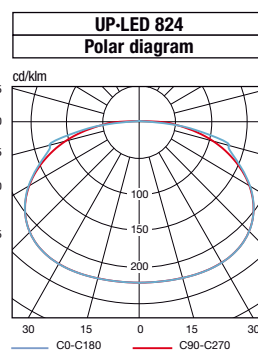


**Red warning LED:**  
**BATTERY**  
**MALFUNCTION**

**Green warning LED:**  
**FIXTURE**  
**FULLY EFFICIENT**

**BATTERY CONTROL SYSTEM**

The warning LED follows new protocols linked to compliance with Standard CEI EN 60598-2-22, which expressly requires the signalling of a battery malfunction which, in the case of UP•LED, is indicated instantaneously with the appearance of the colour red on the multicolour warning led (Battery Control System BCS).



**TR**

Traditional

| Size | Order code    | Description                 | Model | Autonomy | Battery          | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack single |
|------|---------------|-----------------------------|-------|----------|------------------|--------|-------------|-------------|--------------|-----------|-------------|
| S    | <b>824S</b>   | UP LED 824S SE 100L 120°/RM | SE    | 2h       | NiCd 3.6V 0.75Ah | 4      | 100         | -           | 0.8          | 0.25      | 1/12        |
| M    | <b>824M</b>   | UP LED 824M SE 150L 90°/RM  | SE    | 1,5h     | NiCd 3.6V 0.75Ah | 4      | 150         | -           | 0.8          | 0.25      | 1/12        |
| L    | <b>824L</b>   | UP LED 824L SE 250L 90°/RM  | SE    | 1,5h     | NiMH 3.6V 1.2A   | 4      | 250         | -           | 0.8          | 0.25      | 1/12        |
| M    | <b>824MSA</b> | UP LED 824M SA 150L 90°/RM  | SE/SA | 1,5h     | NiCd 3.6V 0.75Ah | 4      | 150         | 100         | 2.0          | 0.25      | 1/12        |
| L    | <b>824LSA</b> | UP LED 824L SA 250L 90°/RM  | SE/SA | 1,5h     | NiMH 3.6V 1.2A   | 4      | 250         | 100         | 2.0          | 0.25      | 1/12        |

\* Minimum flux guaranteed according to EN 60598-2-22

# UP•LED Lite

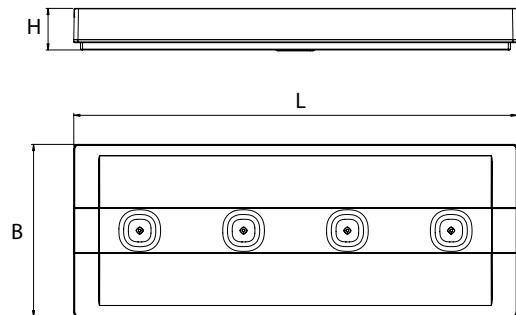


Emergency lighting fixture characterized by great flexibility of use. Less than 20mm high, offering an innovative aesthetic impact. Compactness, high performance, mounting flexibility and high protection degree make the product ideal for any type of installation. Available in non-maintained SE and maintained SA versions, IP42/IP65, 100-200 lm output flux.

Rest mode input available. The entire range is equipped with all the accessories to become a signal exit light with visibility from 20 to 30m. UP•LED LITE is suitable to work with multi-voltage power supply: 120Vac and 230Vac.

## GENERAL CHARACTERISTICS

- Output** 100lm, 200lm
- Power supply** 120Vac +/- 10% 60Hz
- multivoltage** 230Vac +/- 10% 50Hz
- Operation** Maintained (SA with Rest Mode)  
Non-maintained (SE with Rest Mode)
- Standard** EN 60598-1, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection degree** IP65 - IP42
- Protection mechanical impacts** IK07
- Autonomy** 1h
- Working temperature** 0°C ÷ +40°C
- Mounting** wall, ceiling
- Housing** Polycarbonate, white RAL 9003
- Lens** transparent Polycarbonate

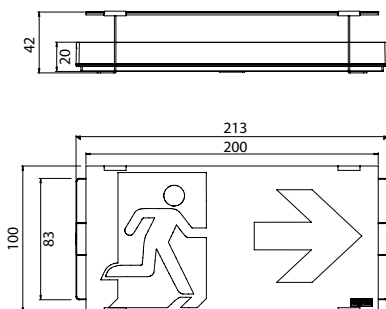


| • Dimensions (mm) • |    |    |       |  |
|---------------------|----|----|-------|--|
| L                   | B  | H  | DV    |  |
| 213                 | 83 | 20 | 20/30 |  |

## Accessories

to be ordered separately

| Order Code | Description               |
|------------|---------------------------|
| 4310       | SCREEN R-L-DOWN UPLED 20M |
| 4311       | SCREEN R-L-DOWN UPLED 30M |

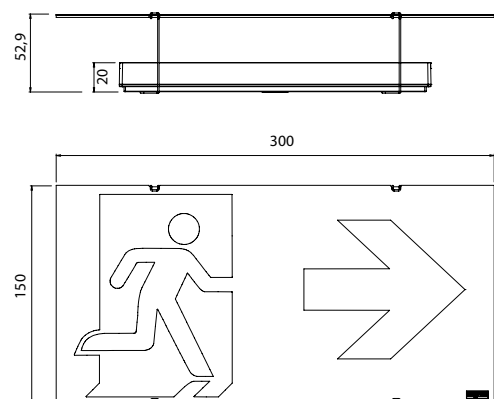


sign diffuser - visibility distance 20 m

## Accessories

supplied

| Order Code | Description   |
|------------|---|
| -          | CONNECTION COUPLING IP65                                  |
| -          | 2 REAR SPACERS FOR MOUNTING WITH CONNECTION COUPLING IP65 |
| -          | 2 CAPS IP65   |
| -          | CABLE GLAND IP65  |



sign diffuser - visibility distance 30 m

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED 824 ACCESSORY

to be ordered separately

**SIGN DIFFUSER VISIBILITY 20M**



**4310** single sided screen with left/right/down arrows 20m to be ordered separately

**SIGN DIFFUSER VISIBILITY 30M**



**4311** single sided screen with left/right/down arrows 30m to be ordered separately



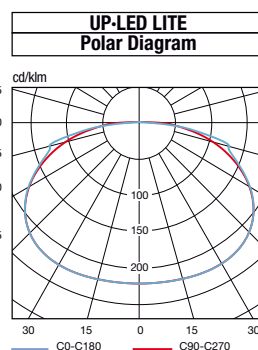
**Red warning LED:  
BATTERY  
MALFUNCTION**



**Green warning LED:  
FIXTURE  
FULLY EFFICIENT**

**BATTERY CONTROL SYSTEM**

The warning LED follows new protocols linked to compliance with Standard CEI EN 60598-2-22, which expressly requires the signalling of a battery malfunction which, in the case of UP•LED, is indicated instantaneously with the appearance of the colour red on the multicolour warning led (Battery Control System BCS).



**BCS**

**Battery Control System**

| Order Code | Description                 | Version | Autonomy | Battery           | n° LEDs | Flux SE lm | Flux SA lm | Absorption max W | Weight kg | Packaging |
|------------|-----------------------------|---------|----------|-------------------|---------|------------|------------|------------------|-----------|-----------|
| 4340       | UP LED LITE 100L IP42 SE RM | SE      | 1h       | NiCd 3.6V 0.5 Ah  | 4       | 100        | -          | 0.8              | 0.25      | 12        |
| 4341       | UP LED LITE 200L IP42 SE RM | SE      | 1h       | NiCd 3.6V 0.75 Ah | 4       | 200        | -          | 1.5              | 0.25      | 12        |
| 4342       | UP LED LITE 100L IP42 SA RM | SA      | 1h       | NiCd 3.6V 0.5 Ah  | 4       | 100        | 100        | 1.5              | 0.25      | 12        |
| 4343       | UP LED LITE 200L IP42 SA RM | SA      | 1h       | NiCd 3.6V 0.75 Ah | 4       | 200        | 100        | 2.0              | 0.25      | 12        |
| 4344       | UP LED LITE 100L IP65 SE RM | SE      | 1h       | NiCd 3.6V 0.5 Ah  | 4       | 100        | -          | 0.8              | 0.25      | 12        |
| 4345       | UP LED LITE 200L IP65 SE RM | SE      | 1h       | NiCd 3.6V 0.75 Ah | 4       | 200        | -          | 1.5              | 0.25      | 12        |
| 4346       | UP LED LITE 100L IP65 SA RM | SA      | 1h       | NiCd 3.6V 0.5 Ah  | 4       | 100        | 100        | 1.5              | 0.25      | 12        |
| 4347       | UP LED LITE 200L IP65 SA RM | SA      | 1h       | NiCd 3.6V 0.75 Ah | 4       | 200        | 100        | 2.0              | 0.25      | 12        |



Architectural application for high design emergency units with installations on the wall or on the ceiling. Available also as an emergency sign with a 20m or 30m viewing pictogram.





# UP•LED Multi

on ceiling with  
Ceiling emergency units suitable  
zero visual impact  
for recessed boxes with 60mm diameter.

A revolutionary fixture in conceptual terms considering its spot-like nature which leaves the optics the task of directing the beam of light as required.

There are countless examples of this concept, especially in terms of the maximum reduction of the number of light sources and the visual dimensions of the fixture: only 9 cm diameter and a thickness of just a few millimetres.

The fixture is also innovative in its multifunctional aspect: the shape and size of the illuminated area can be radically changed by choosing from the various supplied lenses: a single fixture can illuminate 12 m of escape routes or areas of 65 sq.m

# UP•LED AT Multi Opticom

## LED Emergency

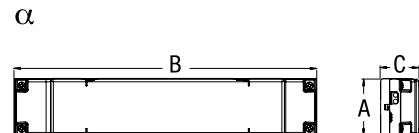
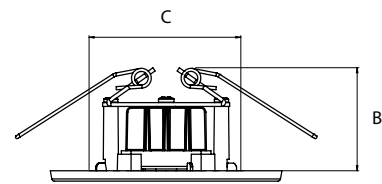
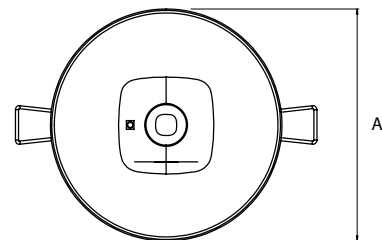
Elegant and compact emergency lighting fixture. Made to be mounted on plasterboard with a hole having a diameter of 60 mm. Available in two versions: autonomy 1h and 3h. Each version is equipped with 3 interchangeable lenses: long, large, high. The standard autonomy of 1h can be extended to 1.5h, 2h, 3h or 8h using the Opticom Technology app to automatically change the outgoing luminous flux.



### GENERAL CHARACTERISTICS

- Power\*** 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE)
- Standard** EN 60598-1, EN 61347-2-7, EN60598-2-22, EN 61347-2-13, UNI 11222, EN 1838, EN 60598-2-2
- Protection grade** IP42
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** recessed
- Alimentatore** Electronic control gear with constant current
- Housing** Polycarbonate
- Optics** lenses in highly transparent PMMA
- Heat sink** Graphite-charged polyamide
- Springs** C72 Stainless steel
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



INVERTER AND BATTERIES

## Accessories

supplied

| Order code | Description          |
|------------|----------------------|
| -          | LONG LENS WITH COVER |
| -          | WIDE LENS WITH COVER |
| -          | HIGH LENS WITH COVER |

## System Modules

to be ordered separately

| Order code   | Description         |      |
|--------------|---------------------|------|
| <b>15036</b> | LG MODULE           | LG   |
| <b>15037</b> | LGFM MODULE         | LGFM |
| <b>15038</b> | DALI OPTICOM MODULE |      |

| Power*<br>W | • Dimensions (mm) • |    |    |     |    |    | Lamp  |
|-------------|---------------------|----|----|-----|----|----|-------|
|             | A                   | B  | C  | L   | G  | H  |       |
| 24          | 90                  | 40 | 60 | 239 | 46 | 30 | 1 LED |

\* Equivalent power for comparison with fluorescent tube devices

## Titanium Battery



- 1 QUICK CHARGING:** the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours
- 2 Withstands extreme operating temperatures:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

### Recharging time Titanium (max)

|      |        |
|------|--------|
| 24 W | 45 min |
|------|--------|



MODULO DALI

MODULO LG

MODULO LGFM

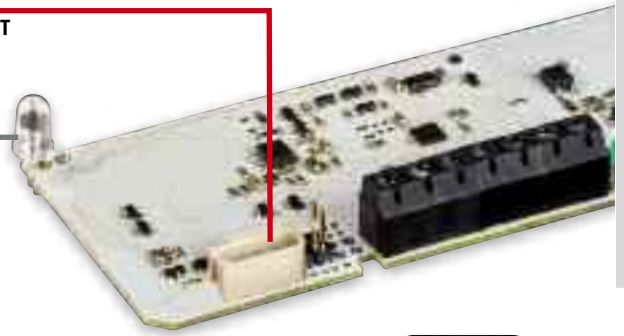
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTORENSOR SUPPLIED

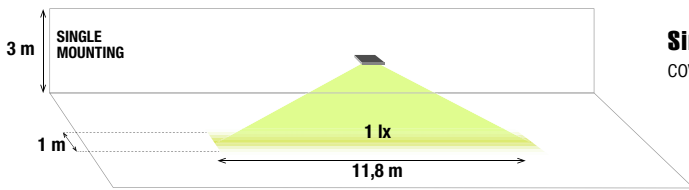


Smartphone interface  
Programming, interrogation and control system



UP LED

### Lungaluce - long lens - mounting 3 m above the ground



#### Single mounting

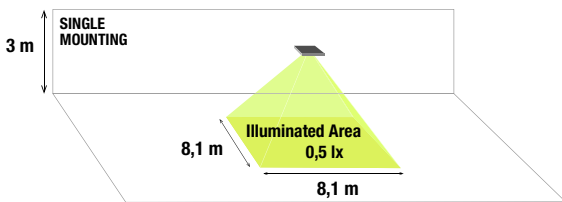
covering an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1m

#### Multiple mounting, fixture centre distance 13 m

covering an escape route of 24.8 m with 1 lux in the middle and > 0.5 within 1m



### Largaluce - wide lens - mounting 3 m above the ground



#### Single mounting

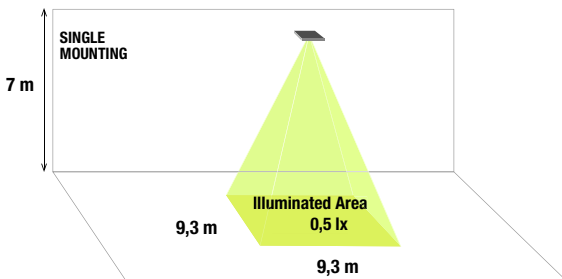
illuminates a surface of 8.1x8.1 m at 0.5 lux

#### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



### Altaluce - high lens - mounting 7 m above the ground



#### Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

#### Multiple mounting, fixture centre distance 11 m

illuminates a surface of 20.5 x 20.5 m at 0.5 lux



AT



opicom  
TECHNOLOGY

| W* | Order code  | Description                 | Model | Autonomy     | Battery        | N° LED | 1h  | Flux LED SE lm |    |    |    |     | Flux LED SA lm | Absorption maxW | Weight kg | Pack single |
|----|-------------|-----------------------------|-------|--------------|----------------|--------|-----|----------------|----|----|----|-----|----------------|-----------------|-----------|-------------|
|    |             |                             |       |              |                |        |     | 1,5h           | 2h | 3h | 8h |     |                |                 |           |             |
| 24 | <b>4390</b> | UP LED MULTI AT OPT SE 8LTO | SE    | 1-1,5-2-3-8h | LTO 7.2V 0.5Ah | 1      | 180 | 120            | 90 | 65 | 25 | -   | 7,5            | 0.4             | 1/6       |             |
| 24 | <b>4391</b> | UP LED MULTI AT OPT SA 8LTO | SA    | 1-1,5-2-3-8h | LTO 7.2V 0.5Ah | 1      | 180 | 120            | 90 | 65 | 25 | 150 | 7,5            | 0.4             | 1/6       |             |

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038



# UP•LED Multi

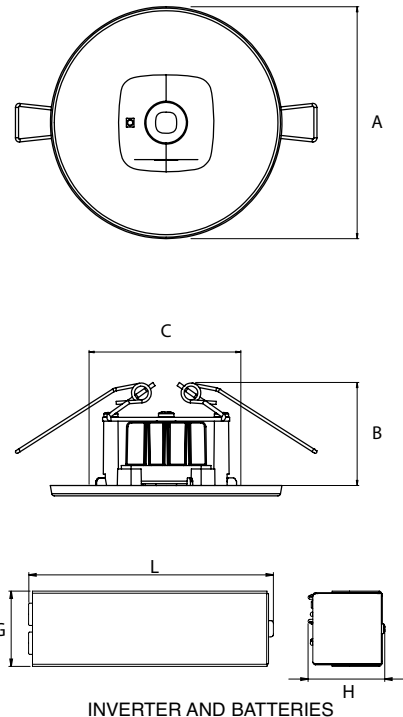
## LED Emergency

Elegant and compact emergency lighting fixture. Made to be mounted on plasterboard with a hole having a diameter of 60 mm. Available in two versions: autonomy 1h and 3h. Each version is equipped with 3 interchangeable lenses: long, large, high.

### GENERAL CHARACTERISTICS

- Power equivalente\*** 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Non Permanent (SE),  
Rest Mode: with optional control device  
(cod. 2730)
- Standard** EN 60598-1, EN 61347-2-7, EN60598-2-22, EN 61347-2-13, UNI 11222, EN 1838, EN 60598-2-2
- Protection grade** IP42
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** recessed
- Alimentatore** Electronic control gear with constant current
- Housing** Polycarbonate
- Lens** High-transparency Makrolon PC
- Heat sink** Graphite-charged polyamide
- Springs** C72 Stainless steel
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



INVERTER AND BATTERIES

## Accessories

supplied

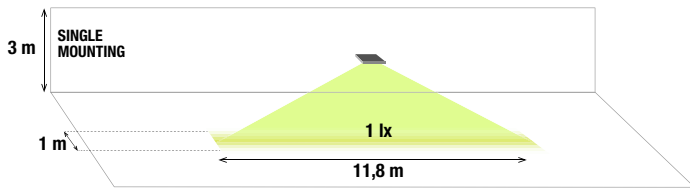
| Order code | Description          |
|------------|----------------------|
| -          | LONG LENS WITH COVER |
| -          | WIDE LENS WITH COVER |
| -          | HIGH LENS WITH COVER |

| Power*<br>W | • Dimensions (mm) • |    |    |     |    |    | Lamp  |
|-------------|---------------------|----|----|-----|----|----|-------|
|             | A                   | B  | C  | L   | G  | H  |       |
| 24          | 90                  | 40 | 60 | 200 | 46 | 43 | 1 LED |

\* Equivalent power for comparison with fluorescent tube devices

# Technical demonstration of light output on the ground

## Lungaluce - long lens - mounting 3 m above the ground

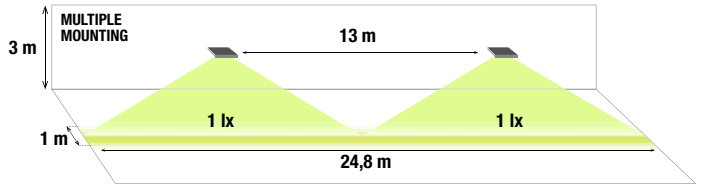


### Single mounting

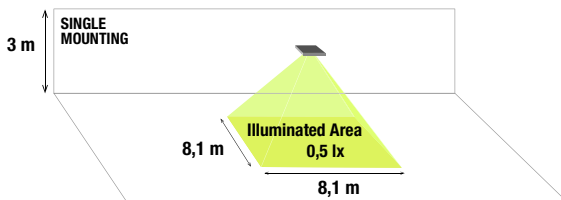
covering an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1m

### Multiple mounting, fixture centre distance 13 m

covering an escape route of 24.8 m with 1 lux in the middle and > 0.5 within 1m



## Largaluce - wide lens - mounting 3 m above the ground

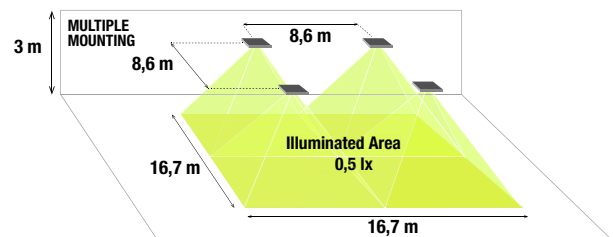


### Single mounting

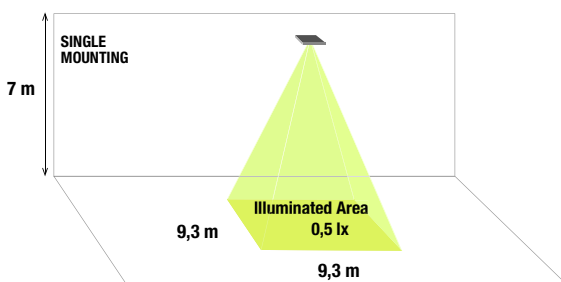
illuminates a surface of 8.1x8.1 m at 0.5 lux

### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



## Altaluce - high lens - mounting 7 m above the ground

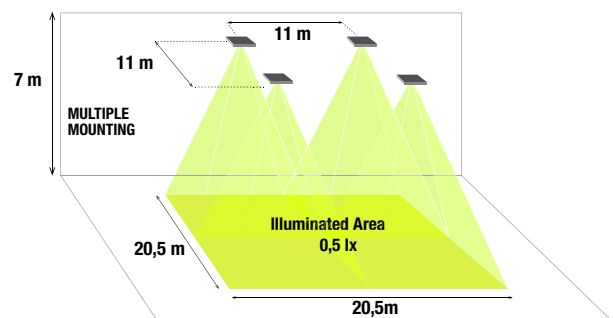


### Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

### Multiple mounting, fixture centre distance 11 m

illuminates a surface of 20.5 x 20.5 m at 0.5 lux



TR

Traditional

| W* | Order code | Description             | Version | Autonomy | Battery          | n° LEDs | Flux* SE lm | Absorption W | Weight kg | Packaging |
|----|------------|-------------------------|---------|----------|------------------|---------|-------------|--------------|-----------|-----------|
| 24 | 4330       | UP LED MULTI 60MM SE 1H | SE      | 1h       | NiCd 3,6V 0,75Ah | 1       | 180         | 1            | 0.4       | 1/6       |
| 24 | 4331       | UP LED MULTI 60MM SE 3H | SE      | 3h       | NiCd 3,6V 1,5Ah  | 1       | 180         | 1,5          | 0.4       | 1/6       |



### UP•LED MULTI

In large premises, the UP•LED Multi allows a considerable reduction of the number of light sources thanks to its innovative performance, on both escape and anti-panic routes, replacing the lens with the most suitable one supplied.





# Completa LED

Methacrylate IP65 Cover,  
The most complete range,  
when safety becomes  
suitable for all requirements  
elegance

The new simple, effective emergency lighting device, suitable for all installation. An emergency product that is guaranteed to meet all requirements is now available, thanks to the new intelligent AT Opticom with LG and LGFM, which can also be used in complex environments in both the industrial and service sector. This highly versatile central-body device can be transformed by dismantling the back shell, enabling recess mounting. The signage is supplied as standard with pictograms, with a methacrylate cover elevating the degree of protection to IP66, adding a technical edge and improved aesthetics. The performance levels offered are also impressive: the dual-reflection optical system maximises luminance and prevents glare, while the battery charging system uses minimal power, allowing for greater energy savings to be obtained with a reduced environmental impact.

# Completa Led AT Opticom

## LED Emergency



### GENERAL CHARACTERISTICS

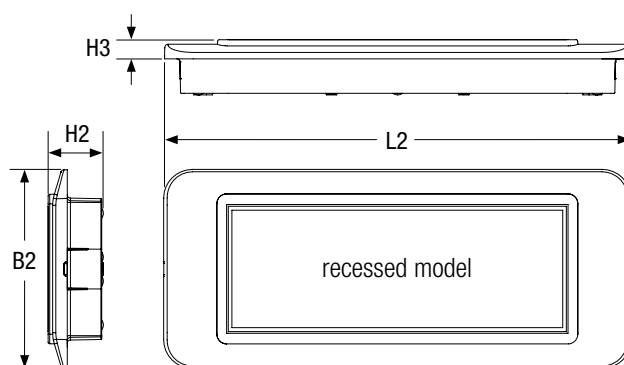
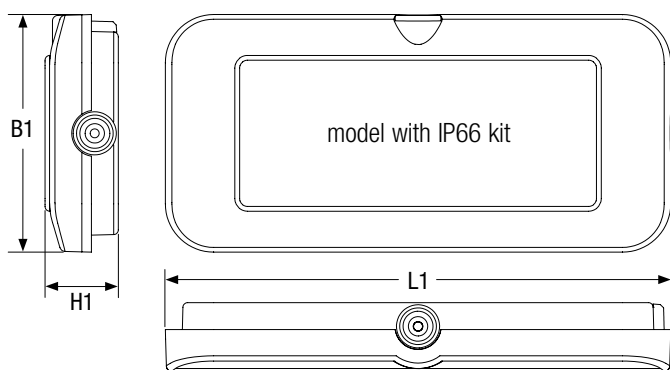
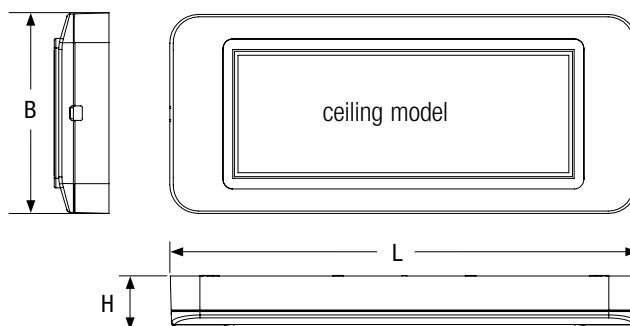
- Power\*** 8, 11, 24, 36 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection grade** IP40, IP66 (with casing)
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Installazione** wall, ceiling, recessed, suspended ceiling, wall suspended
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Louvre** Transparent Polycarbonate
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures

Emergency luminaire offering extreme flexibility of use. Thanks to a symmetrical and extremely uniform illumination, the Completa LED can be wall, ceiling, double-sided and recess mounted, without a specific direction. The Polycarbonate housing contains a dual reflection optic which in turn integrates two series of ultra-efficient LEDs. The screen is made from methacrylate.

The outer housing has numerous pre-drilled inlets for direct assembly on the most widely-available types of connector blocks and recessed boxes. Double-sided screen version available, for wall and ceiling mounting. Furthermore, IP66 and IK07 grade protection can be achieved via the IP66 shell kit, to be ordered separately.

The standard 1 hr lighting autonomy can be extended to 1.5 hours, 2 hours, 3 hours or even 8 hours, using the appropriate Opticom Technology app which automatically adjusts the luminous flux.



| Power *<br>W  | • Dimensions (mm) • |     |    |     |     |    |     |     |    | DV<br>Diffuser | DV<br>Suspended |      |
|---------------|---------------------|-----|----|-----|-----|----|-----|-----|----|----------------|-----------------|------|
|               | L                   | B   | H  | L1  | B1  | H1 | L2  | B2  | H2 |                |                 | H3   |
| 8, 11, 24, 36 | 294                 | 126 | 34 | 317 | 149 | 46 | 292 | 124 | 35 | 12             | 15 m            | 20 m |

\* Indicative power for comparison with fluorescent tube fixtures



MODULO DALI

MODULO LG

MODULO LGFM

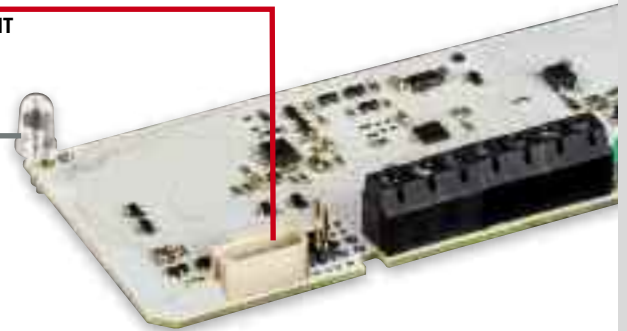
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTSENSOR SUPPLIED

opticom TECHNOLOGY

Smartphone interface  
Programming, interrogation and control system



COMPLETA

## Accessories

supplied

| Order code | Description            |
|------------|------------------------|
| 4278       | ADES 3 LEFT RIGHT DOWN |
| 3733       | RECESSED BOX           |

## System Modules

to be ordered separately

| Order code | Description         |      |
|------------|---------------------|------|
| 15036      | LG MODULE           | LG   |
| 15037      | LGFM MODULE         | LGFM |
| 15038      | DALI OPTICOM MODULE |      |

## Titanium Battery



- 1 QUICK CHARGING:** the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours
- 2 Withstands extreme operating temperatures:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

### Recharging time Titanium (max)

|             |        |
|-------------|--------|
| 8-11, 11-24 | 45 min |
| 24-36       | 90 min |

## Accessories

to be ordered separately

| Order code | Description                      |
|------------|----------------------------------|
| 4112       | KIT IP66 COMPLETA LED            |
| 4265       | WALL BRACKET DESIGN              |
| 4266       | SUSPENDED CEILING BRACKET DESIGN |
| 4267       | DIFFUSER RIGHT/LEFT DESIGN LED   |
| 4268       | DIFFUSER DOWN DESIGN LED         |
| 4269       | ADES LEFT RIGHT DOWN             |

AT



opticom TECHNOLOGY

| W*    | Order code | Description                    | Model | Autonomy     | Battery          | N° LED | 1h  | Average flux SE lm |     |     |    | Average flux SA lm | Power consump. max W | Weight kg | Pack single |
|-------|------------|--------------------------------|-------|--------------|------------------|--------|-----|--------------------|-----|-----|----|--------------------|----------------------|-----------|-------------|
|       |            |                                |       |              |                  |        |     | 1,5h               | 2h  | 3h  | 8h |                    |                      |           |             |
| 8-11  | 4200       | CPLED 811W IP40 AT OPT SE 8LT  | SE    | 1-1,5-2-3-8h | LTO 4.8V 0.5Ah   | 12     | 150 | 100                | 75  | 55  | 25 | -                  | 7,5                  | 0,5       | 1/6         |
| 11-24 | 4201       | CPLED 1124W IP40 AT OPT SE 8LT | SE    | 1-1,5-2-3-8h | LTO 4.8V 0.5Ah   | 12     | 250 | 170                | 130 | 85  | 35 | -                  | 7,5                  | 0,5       | 1/6         |
| 24-36 | 4202       | CPLED 2436W IP40 AT OPT SE 8LT | SE    | 1-1,5-2-3-8h | 2xLTO 4.8V 0.5Ah | 12     | 450 | 305                | 230 | 156 | 65 | -                  | 7,5                  | 0,5       | 1/6         |
| 11-24 | 4203       | CPLED 1124W IP40 AT OPT SA 8LT | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 0.5Ah   | 12     | 250 | 170                | 130 | 85  | 35 | 110                | 7,5                  | 0,5       | 1/6         |
| 24-36 | 4204       | CPLED 2436W IP40 AT OPT SA 8LT | SE/SA | 1-1,5-2-3-8h | 2xLTO 4.8V 0.5Ah | 12     | 450 | 305                | 230 | 156 | 65 | 200                | 7,5                  | 0,5       | 1/6         |

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038

### WALL MOUNTING



- NO ACCESSORY NEEDED

### CEILING MOUNTING



- NO ACCESSORY NEEDED

### RECESSED MOUNTING



**3733** RECESSED BOX

supplied

### RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



recess hole: 279x94 mm

**4266** SUSPENDED CEILING BRACKET

to be ordered separately

**KIT IP66**



**4112** KIT IP66 COMPLETA LED to be ordered separately

**WALL SAFETY SIGN**



**4278** ADES 3 LEFT RIGHT DOWN supplied

**4269** DIFFUSERS RIGHT/LEFT DOWN to be ordered separately

**WALL MOUNTING**



**4265** WALL SUSPENDED BRACKET to be ordered separately

**4267** DIFFUSER RIGHT/LEFT to be ordered separately

**4268** DIFFUSER DOWN to be ordered separately

**RECESSED MOUNTING**



**4266** SUSPENDED CEILING BRACKET to be ordered separately

**4267** DIFFUSER RIGHT/LEFT to be ordered separately

**4268** DIFFUSER DOWN to be ordered separately

# Completa Led

## LED Emergency



Emergency luminaire offering extreme flexibility of use. Thanks to a symmetrical and extremely uniform illumination, the Completa LED can be wall, ceiling, double-sided and recess mounted, without a specific direction. The Polycarbonate housing contains a dual reflection optic which in turn integrates two series of ultra-efficient LEDs. The screen is made from methacrylate.

The outer housing has numerous pre-drilled inlets for direct assembly on the most widely-available types of connector blocks and recessed boxes. Double-sided screen version available, for wall and ceiling mounting. Furthermore, IP66 and IK07 grade protection can be achieved via the IP66 shell kit, to be ordered separately.

### GENERAL CHARACTERISTICS

**Power\*** 6, 8, 11, 18, 24 W

**Power supply** 230Vac ± 10% 50Hz

**Operation** Permanent (SA), Non Permanent (SE)

**Standard** EN 60598-1, EN 60598-2-2,  
EN 60598-2-22, UNI EN 1838,  
UNI 11222

**Protection grade** IP40, IP66 (with Kit)

**Autonomy** 1h, 3h

**Working temp.** 0°C ÷ +40°C

**Installazione** wall, ceiling, recessed, suspended  
ceiling, suspended wall

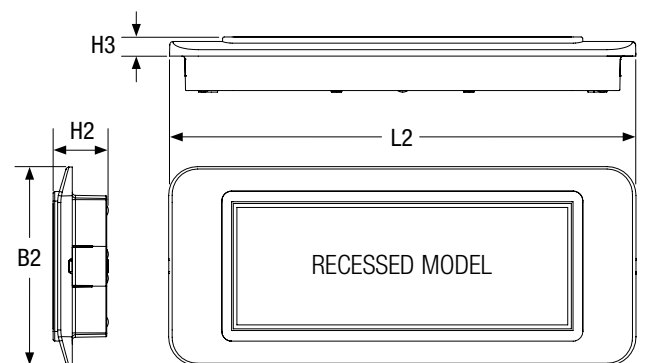
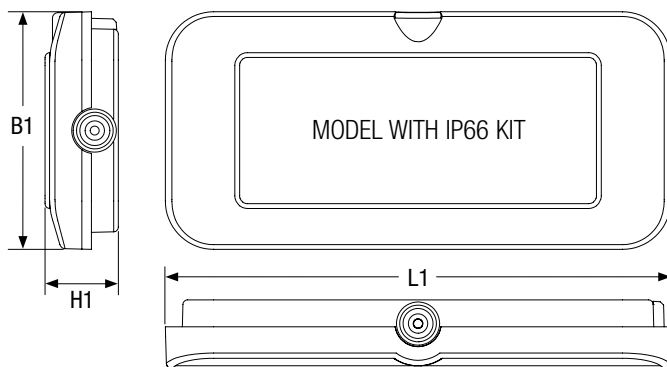
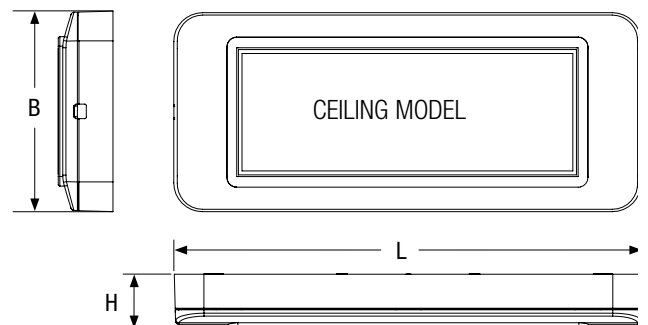
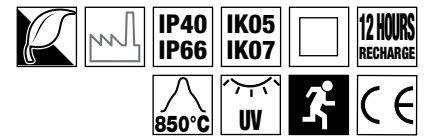
**Housing** White Polycarbonate RAL 9003

**Optics** Symmetrical, white

**Louvre** Transparent Polycarbonate

**Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



| Power *<br>W | • Dimensions (mm) • |     |    |     |     |    |     |     |    |    | DV<br>diffuser | DV<br>suspended |
|--------------|---------------------|-----|----|-----|-----|----|-----|-----|----|----|----------------|-----------------|
|              | L                   | B   | H  | L1  | B1  | H1 | L2  | B2  | H2 | H3 |                |                 |
| 6            | 294                 | 126 | 34 | 317 | 149 | 46 | 292 | 124 | 35 | 12 | 15 m           | 20 m            |
| 8            | 294                 | 126 | 34 | 317 | 149 | 46 | 292 | 124 | 35 | 12 | 15 m           | 20 m            |
| 11           | 294                 | 126 | 34 | 317 | 149 | 46 | 292 | 124 | 35 | 12 | 15 m           | 20 m            |
| 18,24        | 294                 | 126 | 34 | 317 | 149 | 46 | 292 | 124 | 35 | 12 | 15 m           | 20 m            |

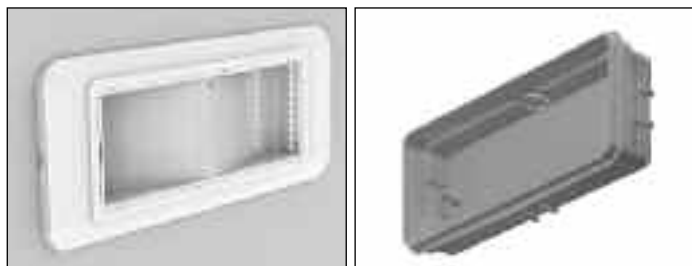
\*Indicative power for comparison with fluorescent tube fixtures

## Accessories

supplied

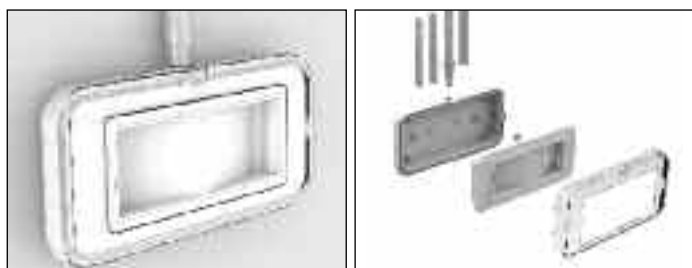
| Order code  | Description                           |
|-------------|---------------------------------------|
| <b>4278</b> | ADES 3 LEFT RIGHT DOWN DESIGN LED TEK |
| <b>3733</b> | RECESSED BOX                          |

### RECESSED MOUNTING



**3733** RECESSED BOX 6, 8, 11, 18, 24 W supplied

### KIT IP66



**4112** KIT IP66 COMPLETA LED to be ordered separately

### WALL MOUNTING



**4265** WALL SUSPENDED BRACKET to be ordered separately

**4267** DIFFUSER RIGHT/LEFT to be ordered separately

**4268** DIFFUSER DOWN to be ordered separately

## Accessories

to be ordered separately

| Order code  | Description                       |
|-------------|-----------------------------------|
| <b>4112</b> | KIT IP66 COMPLETA LED             |
| <b>4265</b> | WALL BRACKET DESIGN               |
| <b>4266</b> | SUSPENDED CEILING BRACKET DESIGN  |
| <b>4267</b> | DIFFUSER RIGHT/LEFT DESIGN LED    |
| <b>4268</b> | DIFFUSER DOWN DESIGN LED          |
| <b>4269</b> | ADES LEFT RIGHT DOWN              |
| <b>4278</b> | ADES 3 LEFT RIGHT DOWN DESIGN LED |

### RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



**4266** SUSPENDED CEILING BRACKET to be ordered separately

### WALL MOUNTING



**4278** ADES 3 LEFT RIGHT DOWN supplied

**4269** DIFFUSERS RIGHT/LEFT DOWN to be ordered separately

### RECESSED MOUNTING



**4266** SUSPENDED CEILING BRACKET to be ordered separately

**4267** DIFFUSER RIGHT/LEFT to be ordered separately

**4268** DIFFUSER DOWN to be ordered separately

## TR

| W  | Order code  | Description                 | Model | N° LED | Autonomy | Battery             | Average Flux SE lm | Average Flux SA lm | Power consump. max. W | Weight kg | Pack |
|----|-------------|-----------------------------|-------|--------|----------|---------------------|--------------------|--------------------|-----------------------|-----------|------|
| 6  | <b>4101</b> | COMPLETA LED 6W SE 1N IP40  | SE    | 10     | 1h       | NC HT 3.6V 0.75A    | 70                 | -                  | 1                     | 0,5       | 6    |
| 8  | <b>4102</b> | COMPLETA LED 8W SE 1N IP40  | SE    | 16     | 1h       | NC HT 3.6V 0.75A    | 120                | -                  | 1                     | 0,5       | 6    |
| 11 | <b>4103</b> | COMPLETA LED 11W SE 1N IP40 | SE    | 20     | 1h       | NC HT 3.6V 0.75A    | 140                | -                  | 1                     | 0,5       | 6    |
| 11 | <b>4104</b> | COMPLETA LED 11W SE 3H IP40 | SE    | 20     | 3h       | NIMH HT 3.6V 1.2A   | 105                | -                  | 1                     | 0,5       | 6    |
| 11 | <b>4105</b> | COMPLETA LED 11W SA 1N IP40 | SA    | 20     | 1h       | NC HT 3.6V 0.75A    | 140                | 90                 | 1/2,5                 | 0,5       | 6    |
| 11 | <b>4106</b> | COMPLETA LED 11W SA 3H IP40 | SA    | 20     | 3h       | NIMH HT 3.6V 1.2A   | 105                | 70                 | 1/2,5                 | 0,5       | 6    |
| 18 | <b>4107</b> | COMPLETA LED 18W SE 1N IP40 | SE    | 32     | 1h       | NC HT 3.6V 0.75A    | 200                | -                  | 1                     | 0,6       | 6    |
| 24 | <b>4108</b> | COMPLETA LED 24W SE 1N IP40 | SE    | 32     | 1h       | 2xNC HT 3.6V 0.75A  | 225                | -                  | 1                     | 0,6       | 6    |
| 24 | <b>4109</b> | COMPLETA LED 24W SE 3H IP40 | SE    | 32     | 3h       | 2xNIMH HT 3.6V 1.2A | 190                | -                  | 1                     | 0,6       | 6    |
| 24 | <b>4110</b> | COMPLETA LED 24W SA 1N IP40 | SA    | 32     | 1h       | 2xNC HT 3.6V 0.75A  | 225                | 135                | 1/3                   | 0,6       | 6    |
| 24 | <b>4111</b> | COMPLETA LED 24W SA 3H IP40 | SA    | 32     | 3h       | 2xNIMH HT 3.6V 1.2A | 190                | 115                | 1/3                   | 0,6       | 6    |





Wall mounting in a large  
business office





# Formula 65 LED

Design and versatility for  
Recessed, wall  
numerous applications



The expression of Beghelli creativity inspired by energy saving offer solutions for every installation context. Protection level IP65, innovative LED technology distinguished by high efficiency combined with a latest generation reflector, Formula 65 LED represents the ultimate frontier of emergency lighting. The range includes the Granluce model with elevated luminous flux, Extreme with special accessories for installation in extreme temperature environments, the Capacitor powered by Supercapacitors rather than batteries to ensure charging in a few minutes even in severe temperatures. All with the elegance and the Design for which Formula65 LED is famous.

# Formula 65 LED AT Opticom

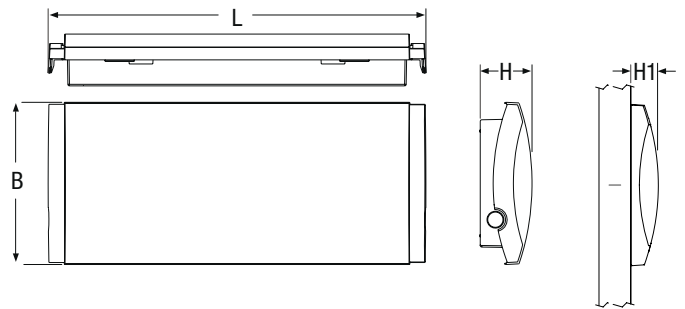
## LED Emergency



### GENERAL CHARACTERISTICS

|                              |   |
|------------------------------|---|
| <b>Power*</b>                | 8, 11, 24 W   |
| <b>Power supply</b>          | 230Vac ± 10% 50Hz   |
| <b>Operation</b>             | Permanent (SA), Non Permanent (SE)  |
| <b>Standard</b>              | EN 60598-1, EN 60598-2-2,<br>EN 60598-2-22, UNI EN 1838, UNI<br>11222, EN 62034 |
| <b>Protection grade</b>      | IP65  |
| <b>Protezione dagli urti</b> | IK07  |
| <b>Autonomy Opticom</b>      | 1h, 1,5h, 2h, 3h, 8h  |
| <b>Working temp.</b>         | -20°C ÷ +50°C (Titanium Battery)  |
| <b>Mounting</b>              | recessed, wall, ceiling, suspended<br>ceiling, suspended wall                   |
| <b>Housing</b>               | White Polycarbonate RAL 9003  |
| <b>Optics</b>                | Symmetrical, white  |
| <b>Louvre</b>                | Transparent Polycarbonate   |
| <b>Light source</b>          | LED   |

\* Indicative power for comparison with fluorescent tube fixtures



## Accessories

supplied

| Order code   | Description                                   |
|--------------|---|
| -            | CABLE GLAND FORMULA 65                        |
| -            | ADAPTER TUBE 16/20 WHITE                      |
| <b>19044</b> | <b>ADES SX DX BS F65 (ONLY FOR SA MODELS)</b> |

| Power*<br>W | • Dimensions (mm) • |     |      |    | Visibility Distance (VD) |           |
|-------------|---------------------|-----|------|----|--------------------------|-----------|
|             | L                   | B   | H    | H1 | wall                     | suspended |
| 8           | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |
| 11          | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |
| 24          | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |

\* Equivalent power for comparison with fluorescent tube devices

## System Modules

to be ordered separately

| Order code   | Description   |
|--------------|---|
| <b>15036</b> | LG MODULE <span style="float: right;">LG</span>     |
| <b>15037</b> | LGFM MODULE <span style="float: right;">LGFM</span> |
| <b>15038</b> | DALI OPTICOM MODULE                                 |

## Accessories

to be ordered separately

| Order code   | Description                                    |
|--------------|--|
| <b>19040</b> | FLUSH-MOUNTED BOX + FRAMES F65                 |
| <b>19041</b> | CEILING BRACKET F65                            |
| <b>19045</b> | WALL BRACKET SUSPENDED F65                     |
| <b>19042</b> | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS F65 |
| <b>19043</b> | DOUBLE SIDED SCREEN WITH DOWN ARROWS F65       |

**MODULO DALI**

**MODULO LG**

**MODULO LGFM**

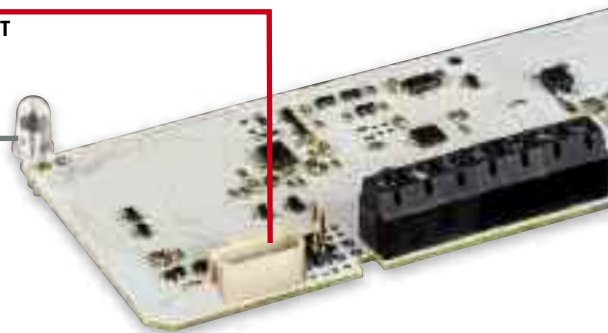
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
Programming, interrogation and control system



FORMULA 65

## Titanium Battery



- 1 QUICK CHARGING:** the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours
- 2 Withstands extreme operating temperatures:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

### Titanium Recharging time (max)

|       |         |
|-------|---------|
| 8, 11 | 105 min |
| 24    | 145 min |
| 24GL  | 210 min |

AT



**opticom**  
TECHNOLOGY

| W*   | Order code   | Description                    | Model | Autonomy     | Battery          | N° LED | 1h  | Average Flux SE lm |     |     |     | Average Flux SA lm | Power consump. max W | Weight kg | Pack single |
|------|--------------|--------------------------------|-------|--------------|------------------|--------|-----|--------------------|-----|-----|-----|--------------------|----------------------|-----------|-------------|
|      |              |                                |       |              |                  |        |     | 1,5h               | 2h  | 3h  | 8h  |                    |                      |           |             |
| 8    | <b>19290</b> | F65LED 8W IP65 AT OPT SE8LTO   | SE    | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 250 | 170                | 130 | 85  | 35  | -                  | 7,5                  | 0,5       | 1/6         |
| 11   | <b>19291</b> | F65LED 11W IP65 AT OPT SE8LTO  | SE    | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 315 | 210                | 160 | 110 | 45  | -                  | 7,5                  | 0,5       | 1/6         |
| 24   | <b>19292</b> | F65LED 24W IP65 AT OPT SE8LTO  | SE    | 1-1,5-2-3-8h | 2xLTO 4.8V 1.2Ah | 12     | 550 | 370                | 280 | 190 | 80  | -                  | 7,5                  | 0,6       | 1/6         |
| 24GL | <b>19293</b> | F65LED 24GL IP65 AT OPT SE8LTO | SE    | 1-1,5-2-3-8h | 2xLTO 4.8V 1.2Ah | 18     | 800 | 540                | 410 | 280 | 115 | -                  | 7,5                  | 0,6       | 1/6         |
| 11   | <b>19294</b> | F65LED 11W IP65 AT OPT SA8LTO  | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 315 | 210                | 160 | 110 | 45  | 130                | 7,5                  | 0,5       | 1/6         |
| 24   | <b>19295</b> | F65LED 24W IP65 AT OPT SA8LTO  | SE/SA | 1-1,5-2-3-8h | 2xLTO 4.8V 1.2Ah | 12     | 550 | 370                | 280 | 190 | 80  | 150                | 7,5                  | 0,6       | 1/6         |
| 24GL | <b>19296</b> | F65LED 24GL IP65 AT OPT SA8LTO | SE/SA | 1-1,5-2-3-8h | 2xLTO 4.8V 1.2Ah | 18     | 800 | 540                | 410 | 280 | 115 | 200                | 7,5                  | 0,6       | 1/6         |

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038

# Accessories

## WALL INSTALLATION WITH SPIRIT LEVEL



- CABLE GLAND Formula 65

## CEILING MOUNTING



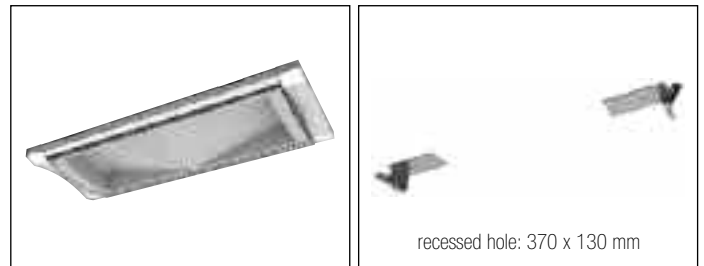
## RECESSED MOUNTING



**19040** FLUSH-MOUNTED BOX + FRAMES F65

*to be ordered separately*

## RECESSED MOUNTING ON SUSPENDED CEILING



recessed hole: 370 x 130 mm

**19041** CEILING BRACKET F65

*to be ordered separately*

## CABLE GLAND



- CABLE GLAND PG16/PG20

supplied

**CABLE GROMMETS**



- 3 IP CABLE GROMMETS

supplied

**RECESSED INTO SUSPENDED CEILING**



**19041** CEILING BRACKET F65 *to be ordered separately*

**19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS *to be ordered separately*

**19043** SHIELD SUSPENDED WITH DOWN ARROWS *to be ordered separately*

**WALL MOUNTING**



**19045** WALL BRACKET *to be ordered separately*

**19042** DOUBLE SIDED SCREEN WITH DOWN ARROWS *to be ordered separately*

**19043** SHIELD SUSPENDED WITH DOWN ARROWS *to be ordered separately*

**SAFETY SIGNALING** (Visibility Distance VD in table)



**19044** ADES RIGHT, LEFT, DOWN

supplied

# Formula 65 Deep Opticom

## LED Emergency



### GENERAL CHARACTERISTICS

- Power\*** 8, 11, 24W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
- Protection grade** IP65
- Protezione dagli urti** IK07
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp. SE** 0 ÷ +50 °C
- Working temp. SA** 0 ÷ +40 °C
- Working temp. con ICE PACK** -40 ÷ +50 °C (+40°C Model SA)
- Mounting** recessed, wall, ceiling, suspended wall, suspended ceiling
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Louvre** Transparent Polycarbonate
- Light source** LED

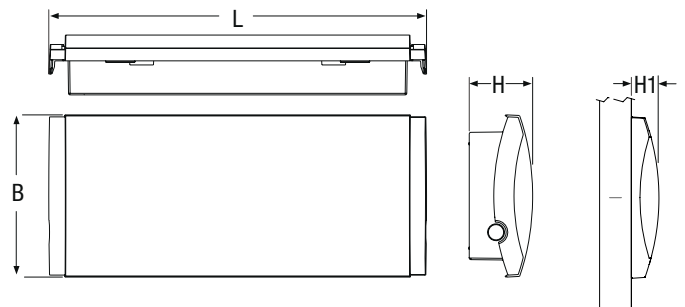
\* Indicative power for comparison with fluorescent tube fixtures

Device for emergency lighting that is highly flexible in use. The symmetry and the great uniformity of its illumination means that Formula 65 LED AR can be installed without a pre-fixed positioning, to the walls, ceiling, suspended or recessed.

The white polycarbonate body houses a double-reflective optic that in turn integrates two highly efficient LED series (greater than 160 lumen/Watt). The high-transparent polycarbonate shield was designed to seal in the optic group so that the device offers a IP65 protection level. The external shell features a number of pre-scored access points for direct fitting on all the most common junction or flush-mounted boxes.

The standard autonomy of 1h can be extended to 1.5h, 2h, 3h or 8h using the Opticom Technology app to automatically change the outgoing luminous flux.

The device is designed to accommodate the feed-through cabling (section 2.5 mm) and is suitable for use with the M20 commercial cable brackets, both for smooth and corrugated tubes of 16 and 20 mm diameter.



| Power**<br>W | • Size (mm) • |     |      |    | Visibility Distance (VD) |           |
|--------------|---------------|-----|------|----|--------------------------|-----------|
|              | L             | B   | H    | H1 | pictogram                | suspended |
| 8, 11, 24    | 354           | 152 | 63.4 | 26 | 25 m                     | 28 m      |

\* Equivalent power for comparison with fluorescent tube devices

# Accessories

## THROUGH-WIRING CABLE



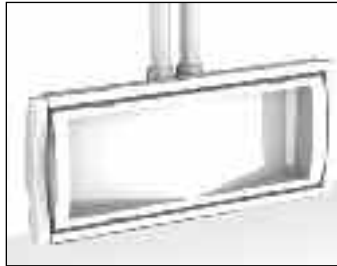
- THROUGH-WIRING CABLE supplied

## CABLE GLAND M20



- 2 M20 CABLE GLAND (smooth and corrugated tubes  $\varnothing 16$  e  $\varnothing 20$ ) supplied

## HOUSING FOR M20 CABLE GLAND



AT



opticom  
TECHNOLOGY

| W* | Order code   | Description                   | Model | Autonomy     | Battery          | N° LED | Average Flux SE lm |      |     |     |    | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|--------------|-------------------------------|-------|--------------|------------------|--------|--------------------|------|-----|-----|----|-----------------------|-------------------------|--------------|----------------|
|    |              |                               |       |              |                  |        | 1h                 | 1,5h | 2h  | 3h  | 8h |                       |                         |              |                |
| 8  | <b>19217</b> | F65LED DEEP 8W AT OPT SE8LTO  | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 250                | 170  | 130 | 85  | 35 | -                     | 7,5                     | 0,7          | 1/5            |
| 11 | <b>19219</b> | F65LED DEEP 11W AT OPT SA8LTO | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 315                | 210  | 160 | 110 | 45 | 130                   | 7,5                     | 0,7          | 1/5            |
| 11 | <b>19252</b> | F65LED DEEP 11W AT OPT SE8LTO | SE/SA | 1-1,5-2-3-8h | LTO 4.8V 1.2Ah   | 12     | 315                | 210  | 160 | 110 | 45 | -                     | 7,5                     | 0,7          | 1/5            |
| 24 | <b>19218</b> | F65LED DEEP 24W AT OPT SE8LTO | SE/SA | 1-1,5-2-3-8h | LTO 2X4.8V 1.2Ah | 12     | 550                | 370  | 280 | 190 | 80 | -                     | 7,5                     | 0,7          | 1/5            |

# Installation accessories

## WALL MOUNTING WITH SPIRIT LEVEL



## CEILING MOUNTING



## RECESSED MOUNTING



## RECESSED INSTALLATION ON SUSPENDED CEILING



**19048** FLUSH-MOUNTED BOX + FRAMES F65 EXTREME *to be ordered separately*

**19049** CEILING BRACKET F65 EXTREME *to be ordered separately*



**RECESSED INTO SUSPENDED CEILING**



- 19049** SUSPENDED CEILING BRACKET F65 *to be ordered separately*
- 19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS *to be ordered separately*
- 19043** DOUBLE SIDED SCREEN WITH DOWN ARROWS *to be ordered separately*

**WALL MOUNTING**



- 19045** WALL BRACKET *to be ordered separately*
- 19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS *to be ordered separately*
- 19043** DOUBLE SIDED SCREEN WITH DOWN ARROWS *to be ordered separately*

**SAFETY SIGNALING** (Visibility distance VD in table)



- 19044** ADES RIGHT, LEFT, DOWN supplied



#### GENERAL CHARACTERISTICS

**Power\*\*** 6, 8, 11, 24 W

**Power supply** 230Vac ± 10% 50Hz

**Operation** Permanent (SA), Non Permanent (SE)  
Rest Mode: with optional control device (cod. 2730)

**Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034

**Protection grade** IP65

**Protezione dagli urti** IK07

**Autonomy** 1h, 2h, 3h

**Working temp.** 0°C ÷ +40°C

**Mounting** recessed, wall, ceiling, suspended ceiling, suspended wall

**Housing** White Polycarbonate RAL 9003

**Optics** Symmetrical, white

**Louvre** Transparent Polycarbonate

**Light source** LED

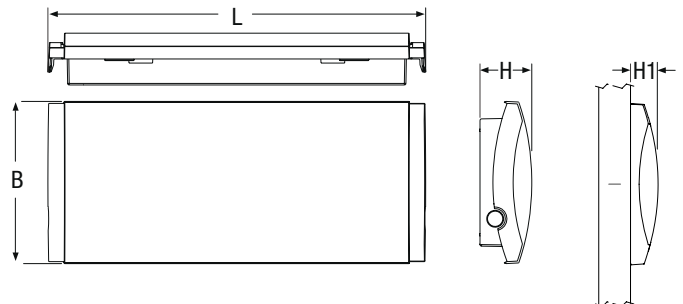
\*\* Indicative power for comparison with fluorescent tube fixtures

## Formula 65 LED

### LED Emergency

Device for emergency lighting that is highly flexible in use. The symmetry and the great uniformity of its illumination means that Formula 65 LED AR can be installed without a pre-fixed positioning, to the walls, ceiling, suspended or recessed.

The white Polycarbonate body houses a double-reflective optic that in turn integrates two highly efficient LED series (greater than 160 lumen/Watt). The high-transparent Polycarbonate shield was designed to seal in the optic group so that the device offers a IP65 protection level. The external shell features a number of pre-scored access points for direct fitting on all the most common junction or flush-mounted boxes.



| Power**<br>W | • Dimensions (mm) • |     |      |    | Visibility Distance (VD) |           |
|--------------|---------------------|-----|------|----|--------------------------|-----------|
|              | L                   | B   | H    | H1 | wall                     | suspended |
| 6            | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |
| 8            | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |
| 11           | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |
| 24           | 354                 | 152 | 48.5 | 26 | 25 m                     | 28 m      |

\*\* Indicative power for comparison with fluorescent tube fixtures

## Autoripara Battery



- SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux
- AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device

## AutoRipara Accessories

supplied

| Order code | Description                                 | Battery |
|------------|---|---------|
| RA01       | AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.2Ah) |         |
| RA03       | AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah) |         |



## Accessories

supplied

| Order code | Description                            |
|------------|--|
| -          | COUPLING FORMULA 65                    |
| -          | ADAPTER TUBE 16/20 WHITE               |
| 19044      | ADES SX DX BS F65 (ONLY FOR SA MODELS) |

## Accessories

to be ordered separately

| Order code | Description                                    |
|------------|--|
| 19040      | FLUSH-MOUNTED BOX + FRAMES F65                 |
| 19041      | CEILING BRACKET F65                            |
| 19045      | WALL BRACKET SUSPENDED F65                     |
| 19042      | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS F65 |
| 19043      | DOUBLE SIDED SCREEN WITH DOWN ARROWS F65       |
| 19044      | ADES SX DX BS F65                              |

# TR

Traditional

| W** | Order code | Description  | Model                  | Autonomy | Battery | N° LED              | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |    |
|-----|------------|--------------|------------------------|----------|---------|---------------------|-----------------------|-----------------------|-------------------------|--------------|----------------|----|
|     | 6          | <b>19200</b> | F65 LED 6W IP65 SE 1N  | SE       | 1h      | NiCd 4,8V 0,75 Ah   | 12                    | 70                    | -                       | 0,8          | 0,4            | 12 |
|     | 6          | <b>19201</b> | F65 LED 6W IP65 SE 3H  | SE       | 3h      | NiMh 4,8V 1,7 Ah    | 12                    | 70                    | -                       | 1,5          | 0,4            | 12 |
|     | 8          | <b>19202</b> | F65 LED 8W IP65 SE 1N  | SE       | 1h      | NiCd 4,8V 0,75 Ah   | 12                    | 112                   | -                       | 0,8          | 0,6            | 12 |
|     | 8          | <b>19203</b> | F65 LED 8W IP65 SE 3H  | SE       | 3h      | NiMh 4,8V 1,7 Ah    | 12                    | 112                   | -                       | 1,5          | 0,6            | 1  |
|     | 8          | <b>19204</b> | F65 LED 8W IP65 SA 1N  | SA       | 1h      | NiCd 4,8V 0,75 Ah   | 12                    | 112                   | 56                      | 1,4          | 0,6            | 12 |
|     | 8          | <b>19205</b> | F65 LED 8W IP65 SA 3H  | SA       | 3h      | NiMh 4,8V 1,7 Ah    | 12                    | 112                   | 56                      | 2,6          | 0,6            | 12 |
|     | 11         | <b>19206</b> | F65 LED 11W IP65 SE 1N | SE       | 1h      | NiCd 4,8V 0,75 Ah   | 12                    | 140                   | -                       | 0,8          | 0,6            | 12 |
|     | 11         | <b>19207</b> | F65 LED 11W IP65 SE 3H | SE       | 3h      | NiMh 4,8V 1,7 Ah    | 12                    | 140                   | -                       | 1,5          | 0,6            | 12 |
|     | 11         | <b>19208</b> | F65 LED 11W IP65 SA 1N | SA       | 1h      | NiCd 4,8V 0,75 Ah   | 12                    | 140                   | 70                      | 1,6          | 0,6            | 12 |
|     | 11         | <b>19209</b> | F65 LED 11W IP65 SA 3H | SA       | 3h      | NiMh 4,8V 1,7 Ah    | 12                    | 140                   | 70                      | 2,8          | 0,6            | 12 |
|     | 24         | <b>19210</b> | F65 LED 24W IP65 SE 1N | SE       | 1h      | 2xNiCd 4,8V 0,75 Ah | 12                    | 224                   | -                       | 1            | 0,8            | 12 |
|     | 24         | <b>19211</b> | F65 LED 24W IP65 SE 3H | SE       | 3h      | 2xNiMh 4,8V 1,7 Ah  | 12                    | 224                   | -                       | 2,1          | 0,8            | 12 |
|     | 24         | <b>19212</b> | F65 LED 24W IP65 SA 1N | SA       | 1h      | 2xNiCd 4,8V 0,75 Ah | 12                    | 224                   | 112                     | 2,1          | 0,8            | 12 |
|     | 24         | <b>19213</b> | F65 LED 24W IP65 SA 3H | SA       | 3h      | 2xNiMh 4,8V 1,7 Ah  | 12                    | 224                   | 112                     | 3,8          | 0,8            | 12 |

# AT

Auto Test Ripara

| W** | Order code | Description    | Model                          | Autonomy | Battery | N° LED             | Average Flux<br>SE lm | Average Flux AR<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |      |
|-----|------------|----------------|--------------------------------|----------|---------|--------------------|-----------------------|--------------------------|-----------------------|-------------------------|--------------|----------------|------|
|     | 8          | <b>R0818</b>   | F65LED 8W IP65 ATRIPARA SE123H | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 135/95/78                | 250/175/125           | -                       | 1.5          | 0.4            | 1/12 |
|     | 11         | <b>R1124</b>   | F65LED11W IP65 ATRIPARA SE123H | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | -                       | 1.5          | 0.4            | 1/12 |
|     | 11         | <b>R1124SA</b> | F65LED11W IP65 ATRIPARA SA123H | SA       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | 250                     | 4.5          | 0.6            | 1/12 |
|     | 24         | <b>R2436</b>   | F65LED24W IP65 ATRIPARA SE123H | SE       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | -                       | 1.5          | 0.6            | 1/12 |
|     | 24         | <b>R2436SA</b> | F65LED24W IP65 ATRIPARA SA123H | SA       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | 280                     | 5.0          | 0.6            | 1/12 |

# LG-AR

Logica Ripara

| W** | Order code | Description  | Model                         | Autonomy | Battery | N° LED             | Average Flux<br>SE lm | Average Flux AR<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |      |
|-----|------------|--------------|-------------------------------|----------|---------|--------------------|-----------------------|--------------------------|-----------------------|-------------------------|--------------|----------------|------|
|     | 8          | <b>19234</b> | F65 LED 8W IP65 LG SE 1/2/3H  | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 135/95/78                | 250/175/125           | -                       | 1.5          | 0.4            | 1/12 |
|     | 8          | <b>19235</b> | F65 LED 8W IP65 LG SA 1/2/3H  | SA       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 135/95/78                | 250/175/125           | 210                     | 4            | 0.4            | 1/12 |
|     | 11         | <b>19236</b> | F65 LED 11W IP65 LG SE 1/2/3H | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | -                       | 1.5          | 0.4            | 1/12 |
|     | 11         | <b>19237</b> | F65 LED 11W IP65 LG SA 1/2/3H | SA       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | 250                     | 4.5          | 0.6            | 1/12 |
|     | 24         | <b>19238</b> | F65 LED 24W IP65 LG SE 1/2/3H | SE       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | -                       | 1.5          | 0.6            | 1/12 |
|     | 24         | <b>19239</b> | F65 LED 24W IP65 LG SA 1/2/3H | SA       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | 280                     | 5.0          | 0.6            | 1/12 |

# LG-AR Granluce

Logica Ripara

| W** | Order code | Description  | Model                              | Autonomy | Battery | N° LED            | Average Flux<br>SE lm | Average Flux AR<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |      |
|-----|------------|--------------|------------------------------------|----------|---------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|--------------|----------------|------|
|     | 24         | <b>19246</b> | F65 LED 24W IP65 LG AR SE 1/2/3H S | SE       | 1-2-3h  | 2xNiMH 3.6V 1.7Ah | 22                    | 400/200/140              | 800/400/270           | -                       | 1.5          | 0.6            | 1/12 |
|     | 24         | <b>19247</b> | F65 LED 24W IP65 LG AR SA 1/2/3H S | SA       | 1-2-3h  | 2xNiMH 3.6V 1.7Ah | 22                    | 400/200/140              | 800/400/270           | 280                     | 4.5          | 0.6            | 1/12 |

# LGFM-AR

Logica FM Ripara

| W** | Order code | Description  | Model                           | Autonomy | Battery | N° LED             | Average Flux<br>SE lm | Average Flux AR<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |      |
|-----|------------|--------------|---------------------------------|----------|---------|--------------------|-----------------------|--------------------------|-----------------------|-------------------------|--------------|----------------|------|
|     | 8          | <b>19240</b> | F65 LED 8W IP65 LGFM SE 1/2/3H  | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 135/95/78                | 250/175/125           | -                       | 1.5          | 0.4            | 1/12 |
|     | 8          | <b>19241</b> | F65 LED 8W IP65 LGFM SA 1/2/3H  | SA       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 135/95/78                | 250/175/125           | 210                     | 4            | 0.4            | 1/12 |
|     | 11         | <b>19242</b> | F65 LED 11W IP65 LGFM SE 1/2/3H | SE       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | -                       | 1.5          | 0.4            | 1/12 |
|     | 11         | <b>19243</b> | F65 LED 11W IP65 LGFM SA 1/2/3H | SA       | 1-2-3h  | NiCd 3.6V 0.75Ah * | 12                    | 180/125/90               | 315/220/160           | 250                     | 4.5          | 0.6            | 1/12 |
|     | 24         | <b>19244</b> | F65 LED 24W IP65 LGFM SE 1/2/3H | SE       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | -                       | 1.5          | 0.6            | 1/12 |
|     | 24         | <b>19245</b> | F65 LED 24W IP65 LGFM SA 1/2/3H | SA       | 1-2-3h  | NiMH 3.6V 1.2Ah *  | 12                    | 315/220/160              | 550/385/275           | 280                     | 5.0          | 0.6            | 1/12 |

# LGFM-AR Granluce

Logica FM Ripara

| W** | Order code | Description  | Model                                | Autonomy | Battery | N° LED            | Average Flux<br>SE lm | Average Flux AR<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |      |
|-----|------------|--------------|--------------------------------------|----------|---------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|--------------|----------------|------|
|     | 24         | <b>19248</b> | F65 LED 24W IP65 LGFM AR SE 1/2/3H S | SE       | 1-2-3h  | 2xNiMH 3.6V 1.7Ah | 22                    | 400/200/140              | 800/400/270           | -                       | 1.5          | 0.6            | 1/12 |
|     | 24         | <b>19249</b> | F65 LED 24W IP65 LGFM AR SA 1/2/3H S | SA       | 1-2-3h  | 2xNiMH 3.6V 1.7Ah | 22                    | 400/200/140              | 800/400/270           | 280                     | 5.0          | 0.6            | 1/12 |

\* these products are equipped with an autoripara battery NiMh 3.6V 1.2Ah

## SLG

| W** | Order code      | Description          | N° LED | Average Flux SA lm | AC/DC W | Weight kg | Pack single |
|-----|-----------------|----------------------|--------|--------------------|---------|-----------|-------------|
|     | 8 <b>17364</b>  | F65 LED 8W IP65 SLG  | 12     | 270                | 5       | 0.8       | 1/12        |
|     | 11 <b>17365</b> | F65 LED 11W IP65 SLG | 12     | 390                | 6       | 0.8       | 1/12        |
|     | 24 <b>17366</b> | F65 LED 24W IP65 SLG | 12     | 550                | 8       | 0.8       | 1/12        |

## SICURO 24V

| W** | Order code      | Description                     | N° LED | Average Flux SA lm | AC/DC W | Weight kg | Pack single |
|-----|-----------------|---------------------------------|--------|--------------------|---------|-----------|-------------|
|     | 24 <b>17367</b> | F65 LED 24W IP65 SLGS 24V       | 12     | 340                |         | 0.8       | 1/12        |
|     | 24 <b>17875</b> | F65 LED 24W IP65 SLGS 24V LS-UV | 12     | 340                |         | 0.8       | 1/12        |

## HT

Mains voltage power supply

| W** | Order code      | Description         | N° LED | Average Flux SA lm | AC/DC W | Weight kg | Pack single |
|-----|-----------------|---------------------|--------|--------------------|---------|-----------|-------------|
|     | 8 <b>17435</b>  | F65 LED 8W IP65 HT  | 12     | 270                |         | 0.8       | 1/12        |
|     | 11 <b>17436</b> | F65 LED 11W IP65 HT | 12     | 390                |         | 0.8       | 1/12        |
|     | 24 <b>17437</b> | F65 LED 24W IP65 HT | 12     | 550                |         | 0.8       | 1/12        |

### WALL INSTALLATION WITH SPIRIT LEVEL

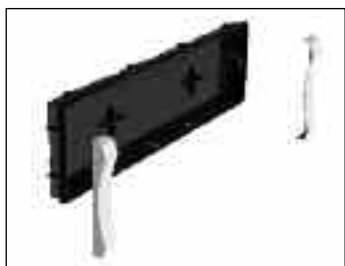


- CABLE GLAND FORMULA 65

### CEILING MOUNTING



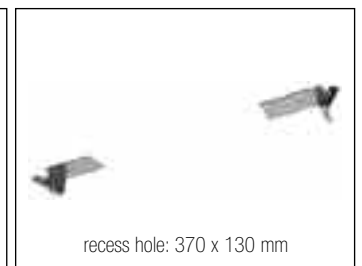
### RECESSED MOUNTING



**19040** FLUSH-MOUNTED BOX + F65 FRAMES

supplied

### RECESSED MOUNTING ON SUSPENDED CEILING



recess hole: 370 x 130 mm

**19041** SUSPENDED CEILING BRACKET F65

to be ordered separately

**CABLE GLAND**



- CABLE GLAND PG16/PG20 supplied

**CABLE GROMMETS**



- 3 IP CABLE GROMMETS supplied

**RECESSED INTO SUSPENDED CEILING**



**19041** CEILING BRACKET F65 to be ordered separately  
**19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS to be ordered separately  
**19043** SHIELD SUSPENDED WITH DOWN ARROWS to be ordered separately

**WALL MOUNTING**



**19045** WALL BRACKET to be ordered separately  
**19042** DOUBLE SIDED SCREEN WITH DOWN ARROWS to be ordered separately  
**19043** SHIELD SUSPENDED WITH DOWN ARROWS to be ordered separately

**EXIT SIGN LUMINAIRE (Visibility distance VD in table)**



**19044** ADES RIGHT, LEFT, BS supplied

**AUTORIPARA BATTERY**



**AUTORIPARA SYSTEM:**  
 Inserting the Autoripara Battery, the device doubles the power or autonomy, and intervenes in the case of malfunctioning of the main battery

**RA01** AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.2Ah) supplied  
**RA03** AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah) supplied

# Formula 65 LED Extreme

## LED Emergency

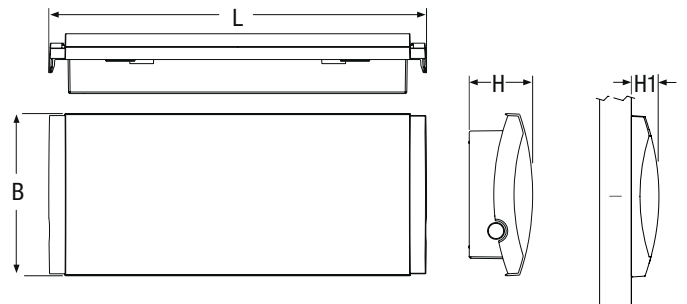
Designed to withstand extreme temperatures as low as -40 °C such as those in cold storage units at high altitudes. The emergency Ice Pack power supply that confers these features is separately supplied and includes an automatic battery heating system that does not degrade with extremely low temperatures. The device is designed to accommodate the feed-through cabling (section 2.5 mm) and is suitable for use with the M20 commercial cable brackets, both for smooth and corrugated tubes of 16 and 20 mm diameter.



### GENERAL CHARACTERISTICS

|                                   |  |
|-----------------------------------|--|
| <b>Power*</b>                     | 24W  |
| <b>Power supply</b>               | 230Vac ± 10% 50Hz  |
| <b>Operation</b>                  | Permanent (SA), Non Permanent (SE)<br>Rest Mode:with optional control device<br>(cod. 12101) |
| <b>Standard</b>                   | EN 60598-1, EN 60598-2-2,<br>EN 60598-2-22, UNI EN 1838, UNI<br>11222, EN 62034              |
| <b>Protection grade</b>           | IP65   |
| <b>Protezione dagli urti</b>      | IK07   |
| <b>Autonomy</b>                   | 1h, 2h, 3h   |
| <b>Working temp. SE</b>           | 0 ÷ +50 °C   |
| <b>Working temp. SA</b>           | 0 ÷ +40 °C   |
| <b>Working temp. con ICE PACK</b> | -40 ÷ +50 °C (+40°C Model SA)  |
| <b>Mounting</b>                   | recessed, wall, ceiling, suspended<br>ceiling, suspended wall                                |
| <b>Housing</b>                    | White Polycarbonate RAL 9003   |
| <b>Optics</b>                     | Symmetrical, white   |
| <b>Louvre</b>                     | Transparent Polycarbonate  |
| <b>Light source</b>               | LED  |

\* Indicative power for comparison with fluorescent tube fixtures



| Power**<br>W | • Size (mm) • |     |      |    | Visibility Distance (VD) |           |
|--------------|---------------|-----|------|----|--------------------------|-----------|
|              | L             | B   | H    | H1 | pictogram                | suspended |
| 24           | 354           | 152 | 63,4 | 26 | 25 m                     | 28 m      |

\* Equivalent power for comparison with fluorescent tube devices


## Accessories

supplied

| Order code   | Description                                  |
|--------------|--|
| -            | N°2 CABLE BRACKETS M20                       |
| <b>19044</b> | ADES RIGHT LEFT LOW F65 (only for SA models) |

## AutoRipara Accessories

to be ordered separately

| Order code  | Description                                 | Battery   |
|-------------|---|---|
| <b>RA03</b> | AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah) |  |

## Autoripara Battery



- 1 SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux
- 2**
- AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device
- 3**

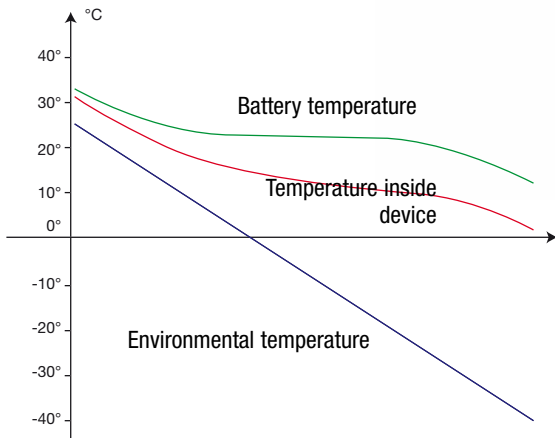
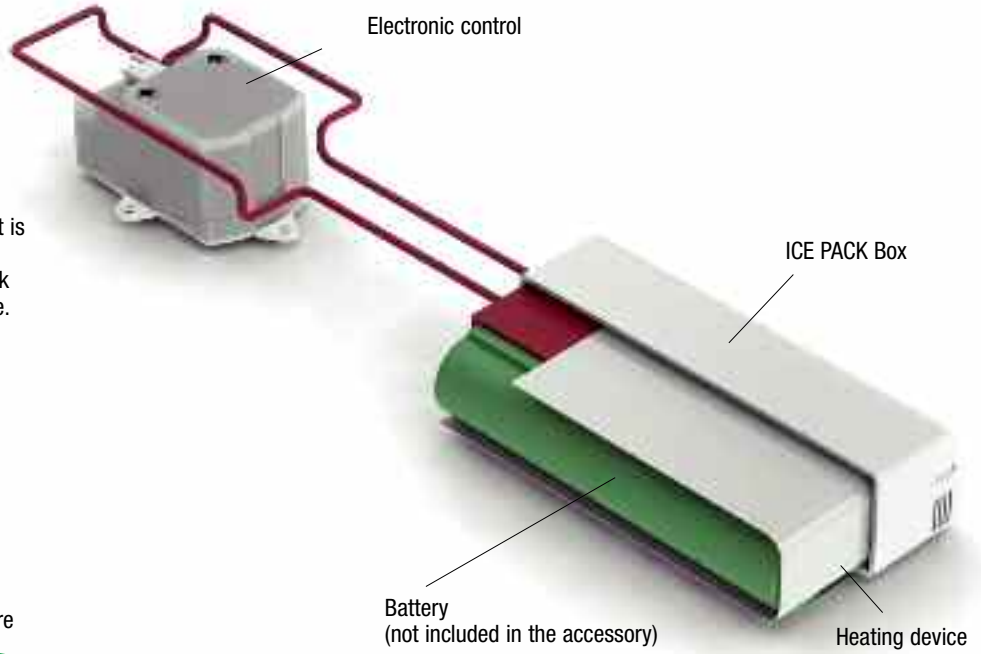
## Accessories

to be ordered separately

| Order code   | Description                                    |
|--------------|--|
| <b>19046</b> | ICE PACK BATTERY                               |
| <b>19048</b> | FLUSH-MOUNTED BOX + FRAMES F65 Extreme         |
| <b>19049</b> | FLUSH-MOUNTED BOX + FRAMES F65 Extreme         |
| <b>19045</b> | WALL BRACKET SUSPENDED F65                     |
| <b>19042</b> | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS F65 |
| <b>19043</b> | DOUBLE SIDED SCREEN WITH DOWN ARROWS F65       |
| <b>19044</b> | ADES LEFT RIGHT DOWN F65                       |
| <b>12101</b> | REMOTE CONTROL (RM INHIBIT FUNCTION)           |

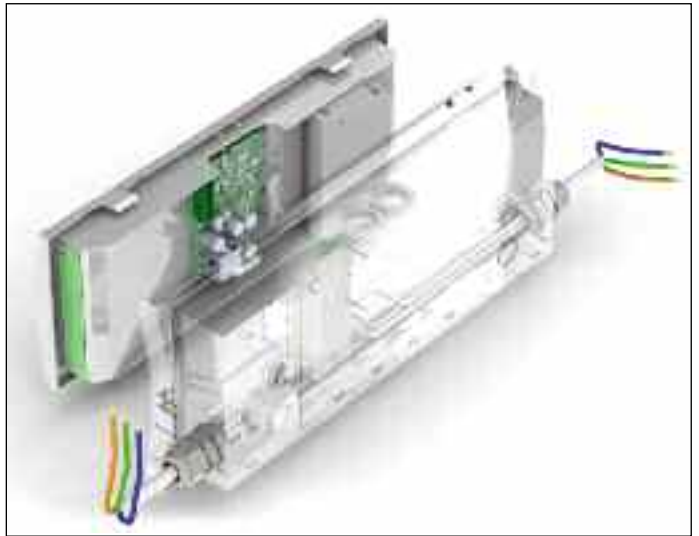


Accessory to maintain warm battery temperature even in working contexts with very low temperatures (-40°C). Ice Pack is controlled through an electronic circuit that is able to maintain a constant battery temperature. The absorption of the Ice Pack depends on the environmental temperature.



Battery temperature alignment based on environmental temperature with Ice Pack Accessory

THROUGH-WIRING CABLE



The device is designed to accommodate the feed-through cabling (section 2.5 mm) and is suitable for use with the M20 commercial cable glands, both for smooth and corrugated tubes of 16 and 20 mm diameter.

LG-AR

| W* | Order code | Description                     | Model | Autonomy | Battery         | N° LED | Average Flux SE lm | Average Flux AR SE lm | Average Flux SA lm | Power consump. max W | Weight kg | Pack single |
|----|------------|---------------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|----------------------|-----------|-------------|
| 24 | 19269      | F65LED EX 24 IP65 LGAR SE123H S | SE    | 1-2-3h   | NiMH 3.6V 1.7Ah | 22     | 400/200/140        | 800/400/270           |                    | 1.5                  | 0.6       | 1/12        |
| 24 | 19270      | F65LED EX 24 IP65 LGAR SA123H S | SA    | 1-2-3h   | NiMH 3.6V 1.7Ah | 22     | 400/200/140        | 800/400/270           | 280                | 4.5                  | 0.6       | 1/12        |

Logica Ripara

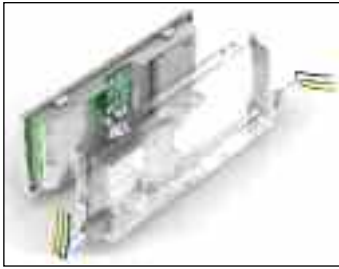
LGFM-AR

| W* | Order code | Description                   | Model | Autonomy | Battery         | N° LED | Average Flux SE lm | Average Flux AR SE lm | Average Flux SA lm | Power consump. max W | Weight kg | Pack single |
|----|------------|-------------------------------|-------|----------|-----------------|--------|--------------------|-----------------------|--------------------|----------------------|-----------|-------------|
| 24 | 19275      | F65LED EX 24 LGFMAR SE 123H S | SE    | 1-2-3h   | NiMH 3.6V 1.7Ah | 22     | 400/200/140        | 800/400/270           |                    | 1.5                  | 0.6       | 1/12        |
| 24 | 19276      | F65LED EX 24 LGFMAR SA 123H S | SA    | 1-2-3h   | NiMH 3.6V 1.7Ah | 22     | 400/200/140        | 800/400/270           | 280                | 5                    | 0.6       | 1/12        |

Logica FM Ripara

# Accessories

## THROUGH-WIRING CABLE



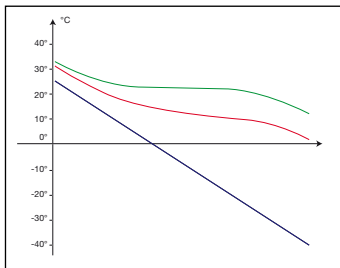
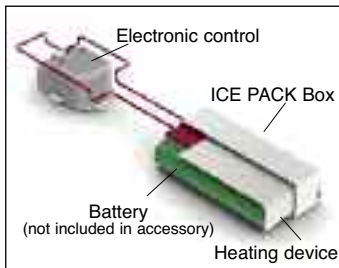
- THROUGH-WIRING CABLE supplied

## CABLE GLAND M20



- 2 M20 CABLE GLAND (smooth and corrugated tubes  $\varnothing 16$  e  $\varnothing 20$ ) supplied

## ICE PACK BATTERY



Accessory to maintain warm battery temperature even in working contexts with very low temperatures ( $-40^{\circ}\text{C}$ ). Ice Pack is controlled through an electronic circuit that maintains a constant battery temperature.

Battery temperature alignment based on environmental temperature with Ice Pack Accessory

The Ice Pack Battery can only be used on the battery supplied. It is not intended for use on additional Autoripara batteries.

**19046** ICE PACK BATTERY to be ordered separately

## AUTORIPARA BATTERY

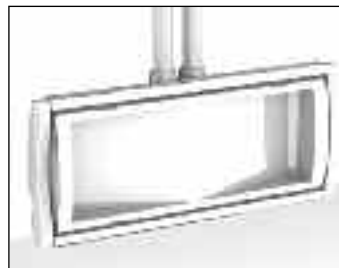


AUTORIPARA SYSTEM:

Inserting the Autoripara Battery, the device doubles the power or autonomy, and intervenes in the case of malfunctioning of the main battery

**RA03** AUTORIPARA BATTERY SYSTEM NiMH HT 3.6V 1.7Ah to be ordered separately

## HOUSING FOR M20 CABLE GLAND





# Installation accessories

## WALL MOUNTING WITH SPIRIT LEVEL



## CEILING MOUNTING

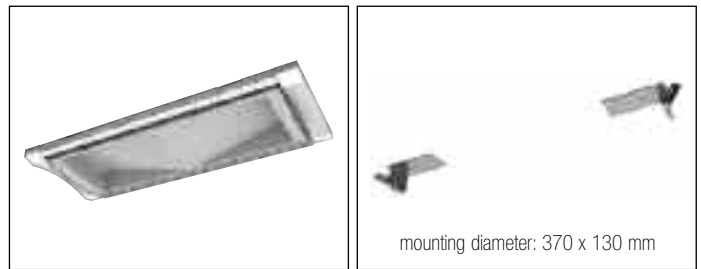


## RECESSED MOUNTING



**19048** FLUSH-MOUNTED BOX + FRAMES F65 EXTREME *to be ordered separately*

## RECESSED INSTALLATION ON SUSPENDED CEILING



**19049** CEILING BRACKET F65 EXTREME *to be ordered separately*

## RECESSED INTO SUSPENDED CEILING



**19049** SUSPENDED CEILING BRACKET F65 *to be ordered separately*

**19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS *to be ordered separately*

**19043** DOUBLE SIDED SCREEN WITH DOWN ARROWS *to be ordered separately*

## WALL MOUNTING



**19045** WALL BRACKET *to be ordered separately*

**19042** DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS *to be ordered separately*

**19043** DOUBLE SIDED SCREEN WITH DOWN ARROWS *to be ordered separately*

## SAFETY SIGNALING (Visibility distance VD in table)



**19044** ADES RIGHT, LEFT, DOWN *supplied*



# Formula 65 Deep

## LED Emergency

Device for emergency lighting that is highly flexible in use. The symmetry and the great uniformity of its illumination means that Formula 65 LED Deep can be installed without a pre-fixed positioning, to the walls, ceiling, suspended or recessed.

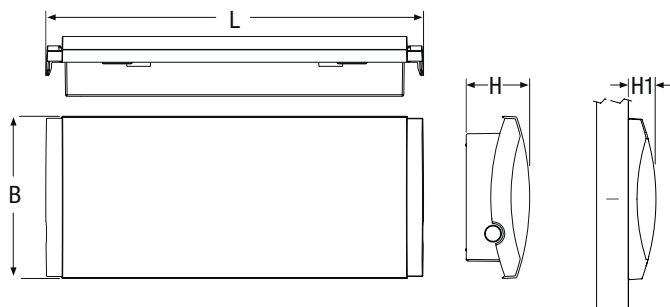
The white polycarbonate body houses a double-reflective optic that in turn integrates two highly efficient LED series (greater than 160 lumen/Watt). The high-transparent polycarbonate shield was designed to seal in the optic group so that the device offers a IP65 protection level. The external shell features a number of pre-scored access points for direct fitting on all the most common junction or flush-mounted boxes.

The device is designed to accommodate the cabling because the dimension of the housing is bigger than standard (section 2.5 mm) and is suitable for use with the M20 commercial cable brackets, both for smooth and corrugated tubes of 16 and 20 mm diameter.

### GENERAL CHARACTERISTICS

|                              |  |
|------------------------------|--|
| <b>Power*</b>                | 8, 11, 24W   |
| <b>Power supply</b>          | 230Vac ± 10% 50Hz  |
| <b>Operation</b>             | Permanent (SA), Non Permanent (SE)<br>Rest Mode:with optional control device<br>(cod. 12101) |
| <b>Standard</b>              | EN 60598-1, EN 60598-2-2,<br>EN 60598-2-22, UNI EN 1838, UNI<br>11222, EN 62034              |
| <b>Protection grade</b>      | IP65   |
| <b>Protezione dagli urti</b> | IK07   |
| <b>Autonomy</b>              | 1h, 2h, 3h   |
| <b>Working temp. SE</b>      | 0 ÷ +40 °C   |
| <b>Mounting</b>              | recessed, wall, ceiling, suspended wall,<br>suspended ceiling                                |
| <b>Housing</b>               | White Polycarbonate RAL 9003   |
| <b>Optics</b>                | Symmetrical, white   |
| <b>Louvre</b>                | Transparent Polycarbonate  |
| <b>Light source</b>          | LED  |

\* Indicative power for comparison with fluorescent tube fixtures



| Power**<br>W | • Size (mm) • |     |      |    |           | Visibility Distance (VD) |  |
|--------------|---------------|-----|------|----|-----------|--------------------------|--|
|              | L             | B   | H    | H1 | pictogram | suspended                |  |
| 8, 11, 24    | 354           | 152 | 63.4 | 26 | 25 m      | 28 m                     |  |

\* Equivalent power for comparison with fluorescent tube devices


## Accessories

supplied

| Order code   | Description                                  |
|--------------|--|
| -            | N°2 CABLE BRACKETS M20                       |
| <b>19044</b> | ADES RIGHT LEFT LOW F65 (only for SA models) |

## AutoRipara Accessories

to be ordered separately

| Order code  | Description                                 | Battery   |
|-------------|---|---|
| <b>RA03</b> | AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah) |  |

## Autoripara Battery



- 1 SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux
- 2**
- AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device
- 3**

## Accessories

to be ordered separately

| Order code   | Description                                    |
|--------------|--|
| <b>19048</b> | FLUSH-MOUNTED BOX + FRAMES F65 EXTREME         |
| <b>19049</b> | FLUSH-MOUNTED BOX + FRAMES F65 EXTREME         |
| <b>19045</b> | WALL BRACKET SUSPENDED F65                     |
| <b>19042</b> | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS F65 |
| <b>19043</b> | DOUBLE SIDED SCREEN WITH DOWN ARROWS F65       |
| <b>19044</b> | ADES LEFT RIGHT DOWN F65                       |
| <b>12101</b> | REMOTE CONTROL (RM INHIBIT FUNCTION)           |

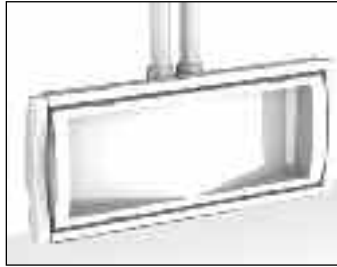
# Accessories

## CABLE GLAND M20



- 2 M20 CABLE GLAND (smooth and corrugated tubes  $\varnothing 16$  e  $\varnothing 20$ ) supplied

## HOUSING FOR M20 CABLE GLAND



## AT opticom TECHNOLOGY

| W* | Order code   | Description                   | Model | Autonomy | Battery           | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|--------------|-------------------------------|-------|----------|-------------------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 8  | <b>19277</b> | F65 LED DEEP 8 IP65 ATSE 3HRM | SE    | 3h       | NIMH 3.6V 1.2Ah   | 12     | 100                   | -                     | 1,3                     | 0,7          | 1/5            |
| 8  | <b>19278</b> | F65 LED DEEP 8 IP65 ATSA 3HRM | SA    | 3h       | NIMH 3.6V 1.2Ah   | 12     | 95                    | 215                   | 1,3                     | 0,7          | 1/5            |
| 24 | <b>19279</b> | F65 LED DEEP 24 IP65 ATSA3HRM | SA    | 3h       | 2xNIMH 3.6V 1.2Ah | 12     | 275                   | 280                   | 1,3                     | 0,7          | 1/5            |

## LGFM Logica FM

| W* | Order code   | Description                    | Model | Autonomy | Battery           | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|--------------|--------------------------------|-------|----------|-------------------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 8  | <b>19214</b> | F65 LED DEEP 8 IP65 LGFMSE 3H  | SE    | 3h       | NIMH 3.6V 1.2Ah   | 12     | 100                   | -                     | 1,3                     | 0,7          | 1/5            |
| 8  | <b>19215</b> | F65 LED DEEP 8 IP65 LGFMSA 3H  | SA    | 3h       | NIMH 3.6V 1.2Ah   | 12     | 95                    | 215                   | 1,3                     | 0,7          | 1/5            |
| 24 | <b>19216</b> | F65 LED DEEP 24 IP65 LGFMSE 3H | SA    | 3h       | 2xNIMH 3.6V 1.2Ah | 12     | 275                   | 280                   | 1,3                     | 0,7          | 1/5            |

# Installation accessories

## WALL MOUNTING WITH SPIRIT LEVEL



## CEILING MOUNTING



## RECESSED MOUNTING



## RECESSED INSTALLATION ON SUSPENDED CEILING



**19048** FLUSH-MOUNTED BOX + FRAMES F65 EXTREME *to be ordered separately*

**19049** CEILING BRACKET F65 EXTREME *to be ordered separately*

### RECESSED INTO SUSPENDED CEILING



- |              |  |                                 |
|--------------|--|---------------------------------|
| <b>19049</b> | SUSPENDED CEILING BRACKET F65              | <i>to be ordered separately</i> |
| <b>19042</b> | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS | <i>to be ordered separately</i> |
| <b>19043</b> | DOUBLE SIDED SCREEN WITH DOWN ARROWS       | <i>to be ordered separately</i> |

### WALL MOUNTING



- |              |  |                                 |
|--------------|--|---------------------------------|
| <b>19045</b> | WALL BRACKET                               | <i>to be ordered separately</i> |
| <b>19042</b> | DOUBLE SIDED SCREEN WITH LEFT/RIGHT ARROWS | <i>to be ordered separately</i> |
| <b>19043</b> | DOUBLE SIDED SCREEN WITH DOWN ARROWS       | <i>to be ordered separately</i> |

### SAFETY SIGNALING (Visibility distance VD in table)

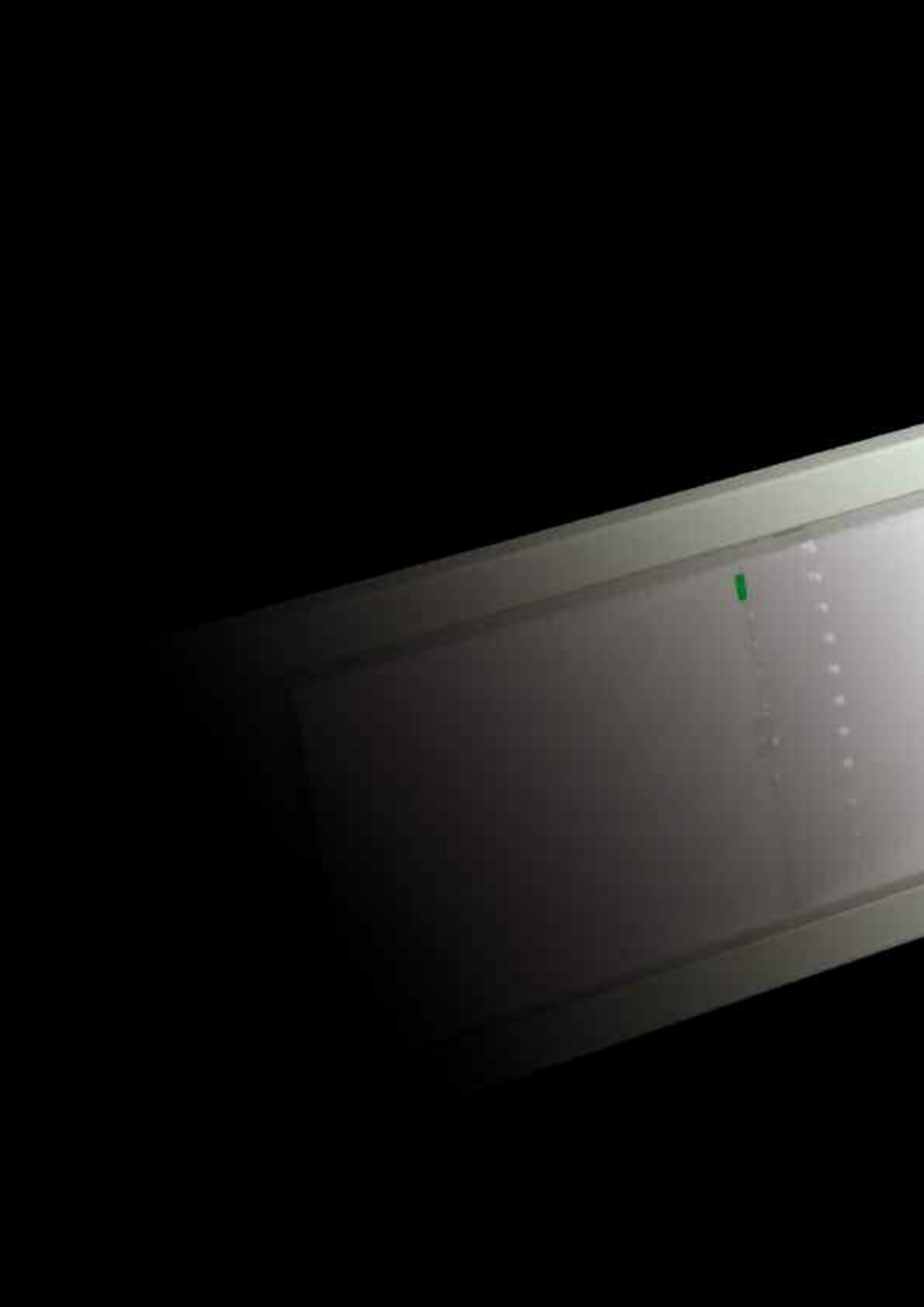


- |              |                        |          |
|--------------|------------------------|----------|
| <b>19044</b> | ADES RIGHT, LEFT, DOWN | supplied |
|--------------|------------------------|----------|





Extreme installation both in terms of climatic conditions and difficulty of maintenance. Formula65 Capacitor is the solution that offers maximum safety in these cases. Recharging time in just a few minutes, so lighting is always available in emergency situations with repeated blackouts, in addition the supercapacitor power system has no limits at low temperatures and does not exhaust like normal batteries.





# Aestetica LED

Apparatus bellis verecunde  
Recessed, wall  
deciperet catelli, ut



The Aestetica LED simple shape is an immediately distinctive feature which remark the innovative spirit of the fitting.

The simplicity of the lines is perfectly combined with the high technology of the LED indirect light source, visible only when the fitting is switched on.

Aestetica Led fulfills any installation ambience in elegant furniture style as well as in modern one.

An indispensable product for safety which can be used as a complementary furniture, can disappear on the wall or can be emphasized, depending on the type of installation site.



# Aestetica LED

## LED Emergency

The Aestetica LED is composed by a double reflection optics in order to optimize the diffusion of the two light beams emitted by the high efficiency LEDs (more than 100 lumen/Watt). This system ensures a perfect light beam uniformity guaranteeing an excellent environment illuminance level.

One of the biggest problems regarding the LED illumination is due to the high level of dazzle. For this reason, the optic system reduces the light beam direct component reflecting it to the optics, in order to balance the emergency illumination requirements with the high efficiency and power LEDs.

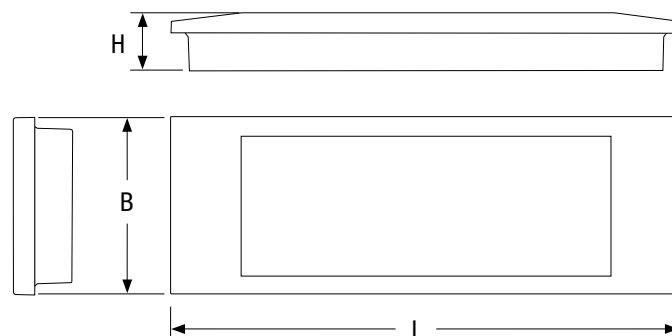
The photometric diagrams aside are showing the luminous flux optimization in wall as well as in ceiling installation.



### GENERAL CHARACTERISTICS

|                         |   |
|-------------------------|---|
| <b>Power*</b>           | 6, 8, 11, 24 W  |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz   |
| <b>Operation</b>        | Permanent (SA), Non Permanent (SE)                                    |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-2,<br>EN 60598-2-22, UNI EN 1838,<br>UNI 11222 |
| <b>Protection grade</b> | IP40  |
| <b>Autonomy</b>         | 1h, 3h  |
| <b>Working temp.</b>    | 0°C ÷ +40°C   |
| <b>Installazione</b>    | wall, ceiling, recessed, suspended<br>ceiling, wall suspended         |
| <b>Housing</b>          | White Polycarbonate RAL 9003  |
| <b>Optics</b>           | Symmetrical, white  |
| <b>Louvre</b>           | Transparent Polycarbonate   |
| <b>Light source</b>     | LED   |

\* Indicative power for comparison with fluorescent tube fixtures



| Power * (W) | • Dimensions (mm) • |     |      | Number of LED | Visibility distance | Nominal flux |
|-------------|---------------------|-----|------|---------------|---------------------|--------------|
|             | L                   | B   | H    |               |                     |              |
| 6           | 292                 | 102 | 34,6 | 10            | 16m                 | 82 lm        |
| 8           | 292                 | 102 | 34,6 | 16            | 16m                 | 131 lm       |
| 11          | 292                 | 102 | 34,6 | 20            | 16m                 | 164 lm       |
| 24          | 292                 | 102 | 34,6 | 32            | 16m                 | 262 lm       |

\*Indicative power for comparison with fluorescent tube lighting

## Accessories

To be ordered separately

| Order code  | Description                        |
|-------------|------------------------------------|
| <b>3733</b> | RECESSED BOX                       |
| <b>4269</b> | SIGN SCREENS                       |
| <b>4266</b> | FALSE CEILING BRACKET              |
| <b>4265</b> | WALL BRACKET FOR FLAG INSTALLATION |
| <b>4267</b> | FLAG SCREEN R/L                    |
| <b>4268</b> | FLAG SCREEN DOWN                   |

For product availability information please contact the Beghelli sales team

**FLAG MOUNTING ON FALSE CEILING OR PLASTERBOARD (VD 20M)**



|             |                       |                          |
|-------------|-----------------------|--------------------------|
| <b>4266</b> | FALSE CEILING BRACKET | to be ordered separately |
| <b>4267</b> | FLAG SCREEN R/L       | to be ordered separately |
| <b>4268</b> | FLAG SCREEN DOWN      | to be ordered separately |

**WALL FLAG MOUNTING (VD 20M)**



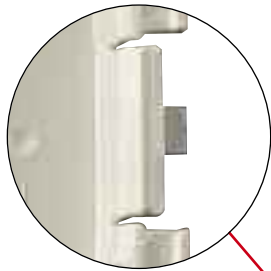
|             |                                |                          |
|-------------|--------------------------------|--------------------------|
| <b>4265</b> | WALL BRACKET FOR FLAG MOUNTING | to be ordered separately |
| <b>4267</b> | FLAG SCREEN R/L                | to be ordered separately |
| <b>4268</b> | FLAG SCREEN DOWN               | to be ordered separately |

**SAFETY SIGNALING (Visibility distance VD in table)**



|             |              |                          |
|-------------|--------------|--------------------------|
| <b>4269</b> | SIGN SCREENS | to be ordered separately |
|-------------|--------------|--------------------------|

Fast click closing system to open the fitting in few seconds



Arrangement to install the product on 503-506 boxes and on the most used European and American standards



Aestetica LED housing cover

**TR**

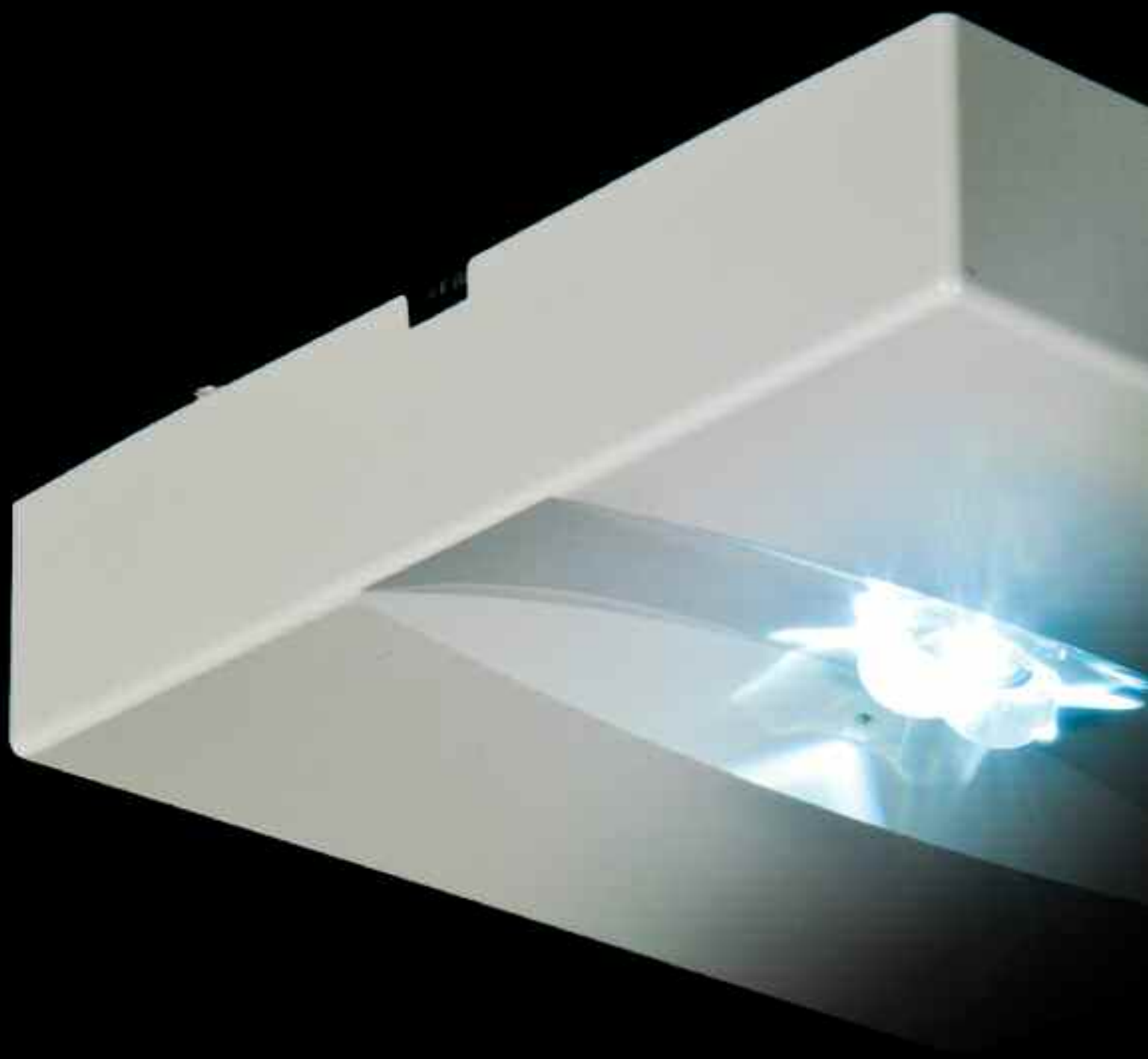
| W* | Order code   | Description                    | Model | Autonomy | Battery           | N° LED | Average Flux SE lm | Average Flux SA lm | Power consump. max W | Weight kg | Pack single |
|----|--------------|--------------------------------|-------|----------|-------------------|--------|--------------------|--------------------|----------------------|-----------|-------------|
| 6  | <b>16220</b> | AESTETICA LED 6W SE 1H IP40    | SE    | 1h       | NIMH 3.6V 1.2Ah   | 10     | 70                 | -                  | 0,8                  | 0,6       | 1/12        |
| 8  | <b>16221</b> | AESTETICA LED 8W SE 1H IP40    | SE    | 1h       | NIMH 3.6V 1.2Ah   | 16     | 120                | -                  | 0,8                  | 0,6       | 1/12        |
| 11 | <b>16222</b> | AESTETICA LED 11W SE 1H IP40   | SE    | 1h       | NIMH 3.6V 1.2Ah   | 20     | 140                | -                  | 0,8                  | 0,6       | 1/12        |
| 11 | <b>16223</b> | AESTETICA LED 11W SA 1H IP40   | SE/SA | 1h       | NIMH 3.6V 1.2Ah   | 20     | 140                | 90                 | 0,8                  | 0,6       | 1/12        |
| 24 | <b>16224</b> | AESTETICA LED 24W SE 1H IP40   | SE    | 1h       | 2xNIMH 3.6V 1.2Ah | 32     | 225                | -                  | 0,8                  | 0,6       | 1/12        |
| 8  | <b>16225</b> | AESTETICA LED 8W SE/SA 3H IP40 | SE/SA | 3h       | NIMH 3.6V 1.2Ah   | 16     | 105                | 70                 | 1                    | 0,6       | 1/12        |
| 24 | <b>16226</b> | AESTETICA LED 24WSE/SA 3H IP40 | SE/SA | 3h       | 2xNIMH 3.6V 1.2Ah | 32     | 190                | 115                | 1                    | 0,6       | 1/12        |

Aestetica LED, has very reduced size and can be installed using a 503/506 box or with the most common European and American standards. Moreover, using its specific recessed box, it can be installed even in extra-thin walls or false-ceiling. Thanks to the fast connector placed on the bottom of the housing, it is possible to open the fitting in few seconds in order to access to the electronic parts and make a quick wiring of the product.





AESTETICA  
LED



# Lungalargaluce LED

The most beautiful lamp  
integrated Inverter e battery  
is the one that is not seen

A revolutionary fixture in conceptual terms which seems to express a historic thought of minimalist architecture: "The most beautiful lamp is the one that is not seen."

There are countless examples of the perfect incarnation of this concept, especially in terms of the maximum reduction of the number of light sources and the visual dimensions of the fixture: only 14 cm side length and 3 thick.

The fixture is also innovative in its multifunctional aspect: the shape and size of the illuminated area can be radically changed by choosing from the various lenses supplied.

# Lungalargaluce LED

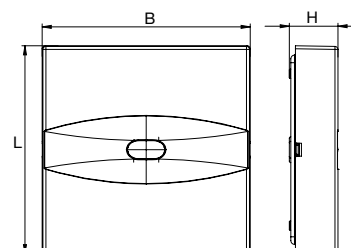
## LED Emergency

High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, supplied for the Lungaluce, Largaluce and Diffusaluce versions, to obtain different dimensions of the illuminated surface. Each lens is supplied with a suitable white Polycarbonate housing. High-efficiency Led, housing with recessed heat sink in graphite-charged polyamide.

### GENERAL CHARACTERISTICS

|                         |   |
|-------------------------|---|
| <b>Power**</b>          | 24 W  |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz   |
| <b>Operation</b>        | HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI 11222, CEI EN 62471                              |
| <b>Protection grade</b> | IP42  |
| <b>Autonomy</b>         | 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions                             |
| <b>Working temp.</b>    | 0°C ÷ +40°C   |
| <b>Mounting</b>         | ceiling, wall   |
| <b>Housing</b>          | Polycarbonate white RAL 9010  |
| <b>Optics</b>           | lenses in highly transparent PMMA   |
| <b>Light source</b>     | LED   |

\*\* Indicative power for comparison with fluorescent tube fixtures



## Accessories

supplied

| Order code | Description                            |
|------------|--|
| -          | LUNGALUCE - long lens with cover       |
| -          | LARGALUCE - wide lens with cover       |
| -          | DIFFUSALUCE - diffused lens with cover |

| Power**<br>W | • Dimensions (mm) • |     |    |
|--------------|---------------------|-----|----|
|              | L                   | B   | H  |
| 24           | 137                 | 137 | 32 |

\*\* Indicative power for comparison with fluorescent tube fixtures

## AT

Autotest

|  | W** | Order Code | Description               | Version | Autonomy | Battery          | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|--|-----|------------|---------------------------|---------|----------|------------------|---------|--------------|------------|--------------|-----------|------|
|  | 24  | 19321      | L.LARG DW CL AT 24W SE 1N | SE      | 1h       | NiCd 7.2V 0.75Ah | 1       | 250          | -          | 1            | 0,6       | 6    |

## LG

Logica

|  | W** | Order Code | Description                         | Version  | Autonomy | Battery         | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|--|-----|------------|-------------------------------------|----------|----------|-----------------|---------|--------------|------------|--------------|-----------|------|
|  | 24  | 19322      | L.LARG DW CL LG 24W SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1       | 250/190/165  | 165        | 1/6,5        | 0,6       | 6    |


## LGFM

Logica FM

|  | W** | Order Code | Description                          | Version  | Autonomy | Battery         | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|--|-----|------------|--------------------------------------|----------|----------|-----------------|---------|--------------|------------|--------------|-----------|------|
|  | 24  | 19323      | L.LARG DW CL LGFM24W SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1       | 250/190/165  | 165        | 2/7,5        | 0,6       | 6    |



## SLG


| W**   | Order Code | Description          | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|---|------------|----------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
|  | 24 17464   | L.LARG DW CL SLG 24W | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |

## SICURO 24V

| W** | Order Code | Description                     | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|---------------------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
| 24  | 17490      | L.LARGA DWCL SY SLGS 24V        | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |
| 24  | 17491      | L.LARGA DWCL ASY SLGS 24V       | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |
| 24  | 17870      | L.LARGA DWCL SY SLGS 24V LS-UV  | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |
| 24  | 17871      | L.LARGA DWCL ASY SLGS 24V LS-UV | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |

## HT

Mains voltage power supply (ca 230V 50 Hz - cc 216V)

| W**   | Order Code | Description         | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|---|------------|---------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
|  | 24 19320   | L.LARG DW CL HT 24W | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,5       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22

**Thermofluidodynamic analysis: calculated heat dissipation**

To ensure long duration and high performance of the LED source, a new technology has been used which simulates heat diffusion in the fixture: the thermofluidodynamic analysis allows to foresee the working temperature of the various components so as to optimize the heat dissipation system.

In the case of the Lungalargaluce LED Ceiling, the dissipating element is the housing of the fixture which, to optimize its efficiency, is made completely of die-cast aluminium.

**Compactness and easy to install**

Lungalargaluce LED is concentrated technology enclosed in a housing with very small dimensions. The outer casing, in Polycarbonate, can be easily removed by means of two quick-release locks that do not require a special tool to open. The electronics are housed inside, consisting of the LED module, Inverter and battery pack.

A quick-connecting terminal block is used for the wiring.

| LENS             | Lamps | Cover   |
|------------------|-------|---|
| LUNGALUCE 3m     | 1     | It covers an escape route of 17.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle                                      |
|                  | 2     | Centre distance 18m between the lamps covering an escape route of 35.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle |
| LARGALUCE 3m     | 1     | Covers a surface of 11.3m x 11.3m with at least 0.5lux with the exception of a 0.5 m perimeter  |
|                  | 4     | Centre distance 13.2m covering a surface of 24.5m x 24.5m with at least 0.5lux with the exception of a 0.5 m perimeter                  |
| DIFFUSALUCE 2.5m | 1     | Covers a surface of 7x3 m with at least 0.5lux with the exception of a 0.5 m perimeter  |
|                  | 2     | Centre distance 6.5m covering a surface of 2x3m with at least 0.5lux with the exception of a 0.5 m perimeter                            |

# One fixture for several applications



### **Lungaluce - long lens**

mounted at a height of 3m it covers an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1m



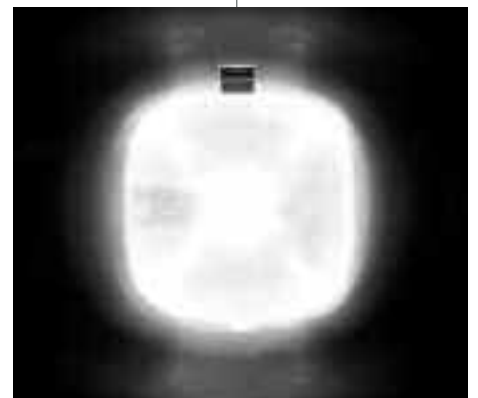
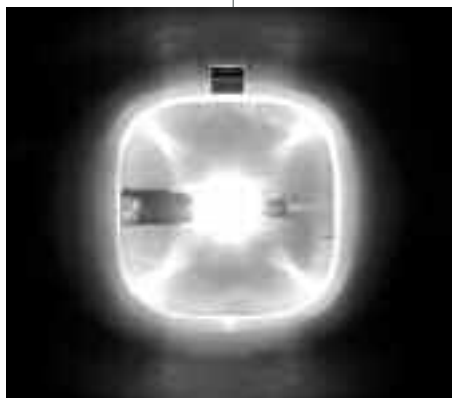
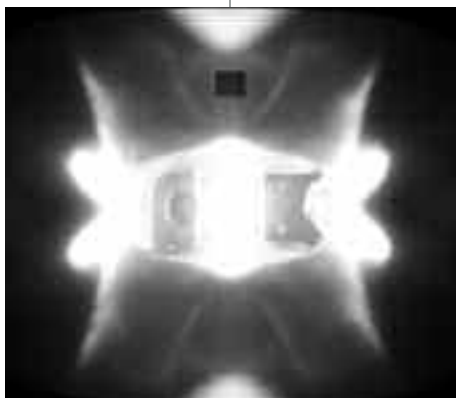
### **Largaluce - wide lens**

mounted at a height of 3m it illuminates a surface of 11.3x11.3m at 0.5 lux (128 sq.m)



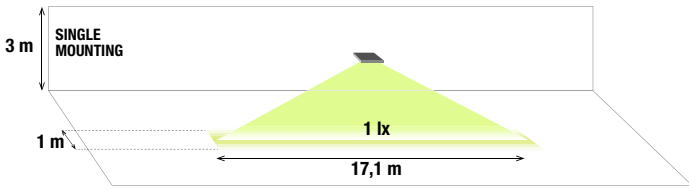
### **Diffusaluce - diffused lens**

mounted on the wall at a height of 2.5m it illuminates a surface of 7x3 m at 0.5 lux (21 sq.m)



# Technical demonstration of light output on the ground

## Lungaluce - long lens - mounting 3 m above the ground

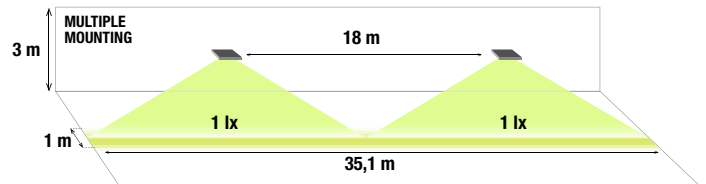


### Single mounting

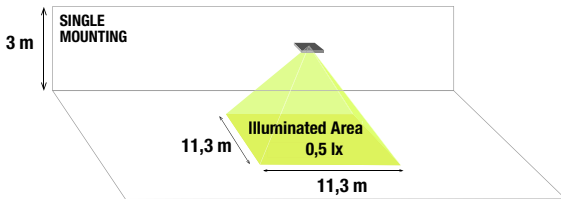
covering an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1m

### Multiple mounting, fixture centre distance 18m

covering an escape route of 35.1m with 1 lux in the middle and > 0.5 within 1m



## Largaluce - wide lens - mounting 3 m above the ground

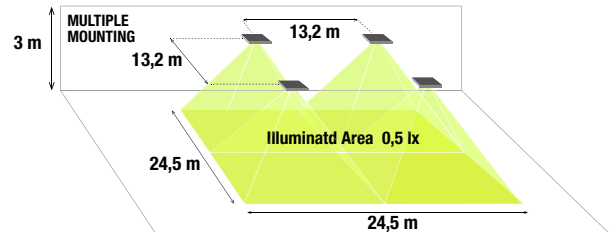


### Single mounting

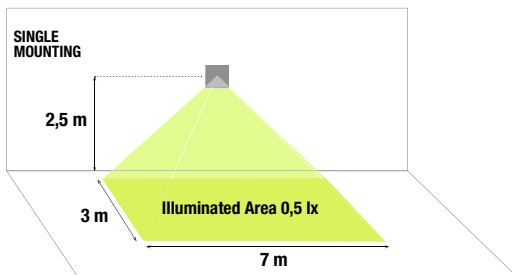
illuminates a surface of 11.3x11.3m at 0.5 lux (128 sq.m)

### Multiple mounting, fixture centre distance 13,2m

illuminates a surface of 24.5x24.5m at 0.5 lux (600 sq.m)



## Diffusaluce - diffused lens - mounting 2.5 m above the ground

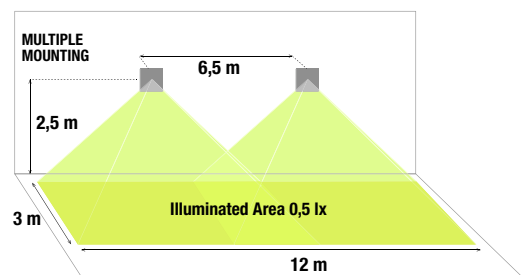


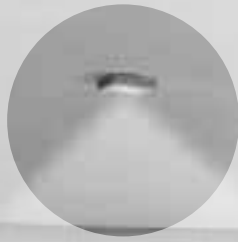
### Single mounting

illuminates a surface of 7x3m at 0.5 lux (21 sq.m)

### Multiple mounting, fixture centre distance 6,5m

illuminates a surface of 12x3m at 0.5 lux (36 sq.m)





Ceiling installation in a situation of total darkness with a reduced number of light sources: anti-panic coverage of an area of almost 130 sq.m (installation H 3m) with just one fixture.





LUNGA AREA  
LUCE LED



# Lungalargaluce LED

The most beautiful lamp  
recessed  
is the one that is not seen

A revolutionary fixture in conceptual terms which seems to express a historic thought of minimalist architecture: "The most beautiful lamp is the one that is not seen." There are countless examples of the perfect incarnation of this concept, especially in terms of the maximum reduction of the number of light sources and the visual dimensions of the fixture: only 12 cm diameter and a thickness of just a few millimetres. The fixture is also innovative in its multifunctional aspect: the shape and size of the illuminated area can be radically changed by choosing from the various lenses supplied.



# Lungalargaluze LED

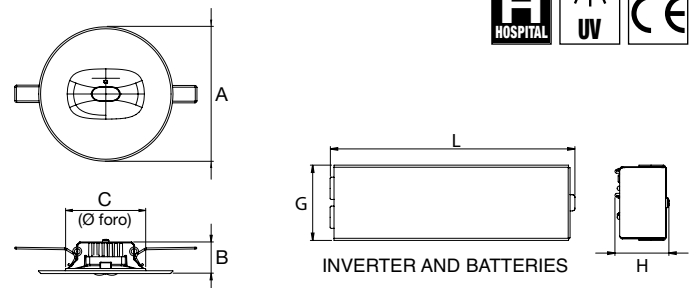
## Recessed LED Emergency

High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, supplied for both the Lungaluce and the Largaluze version, to obtain different dimensions of the illuminated surface. Each lens is supplied with an aesthetic mask in white Polycarbonate, with a blocking system for various types of suspended ceiling. High-efficiency Led, housing with recessed heat sink in graphite-charged polyamide.

### GENERAL CHARACTERISTICS

|                         |  |
|-------------------------|--|
| <b>Power**</b>          | 24 W   |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz  |
| <b>Operation</b>        | HT, Permanent (SA)/Non Permanent (SE)/Public performance (PS) selectable with DIP switch in the LG and LGFM versions |
| <b>Standard</b>         | UNI 11222, EN 60598-1, EN 60598-2-2, EN 60598-2-22, CEI EN 62471   |
| <b>Protection grade</b> | IP42   |
| <b>Autonomy</b>         | 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions  |
| <b>Working temp.</b>    | 0°C ÷ +40°C  |
| <b>Mounting</b>         | suspended ceiling, recessed  |
| <b>Housing</b>          | Polycarbonate white RAL 9010   |
| <b>Optics</b>           | lenses in highly transparent PMMA  |
| <b>Light source</b>     | LED  |

\*\* Indicative power for comparison with fluorescent tube fixtures



| Power**<br>W | • Dimensions (mm) • |    |         |     |    |    |
|--------------|---------------------|----|---------|-----|----|----|
|              | A                   | B  | C       | L   | G  | H  |
| 24           | 120                 | 28 | 80 ±100 | 204 | 63 | 46 |

\*\* Indicative power for comparison with fluorescent tube fixtures

### Accessories

supplied

| Order code | Description                      |
|------------|----------------------------------|
| -          | LUNGALUCE - long lens with cover |
| -          | LARGALUCE - wide lens with cover |

## AT Autotest

| W** | Order Code | Description               | Version | Autonomy | Battery          | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|---------------------------|---------|----------|------------------|---------|--------------|------------|--------------|-----------|------|
| 24  | 19331      | L.LARG DW RC AT 24W SE 1N | SE      | 1h       | NiCd 7.2V 0.75Ah | 1       | 250          | -          | 1            | 0,8       | 6    |

## LG Logica

| W** | Order Code | Description                         | Version  | Autonomy | Battery         | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|-------------------------------------|----------|----------|-----------------|---------|--------------|------------|--------------|-----------|------|
| 24  | 19332      | L.LARG DW RC LG 24W SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1       | 250/190/165  | 165        | 1/6,5        | 0,8       | 6    |

## LGFM Logica FM

| W** | Order Code | Description                           | Version  | Autonomy | Battery         | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|---------------------------------------|----------|----------|-----------------|---------|--------------|------------|--------------|-----------|------|
| 24  | 19333      | L.LARG DW RC LGFM 24W SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1       | 250/190/165  | 165        | 2/7,5        | 0,8       | 6    |

## SLG

| W** | Order Code | Description          | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|----------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
| 24  | 17466      | L.LARG DW RC SLG 24W | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |

## SICURO 24V

| W** | Order Code | Description                     | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|---------------------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
| 24  | 17492      | L.LARGA DWRC SY SLGS 24V        | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |
| 24  | 17493      | L.LARGA DWRC ASY SLGS 24V       | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |
| 24  | 17872      | L.LARGA DWRC SY SLGS 24V LS-UV  | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |
| 24  | 17873      | L.LARGA DWRC ASY SLGS 24V LS-UV | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |

## HT Mains voltage power supply (ca 230V 50 Hz - cc 216V)

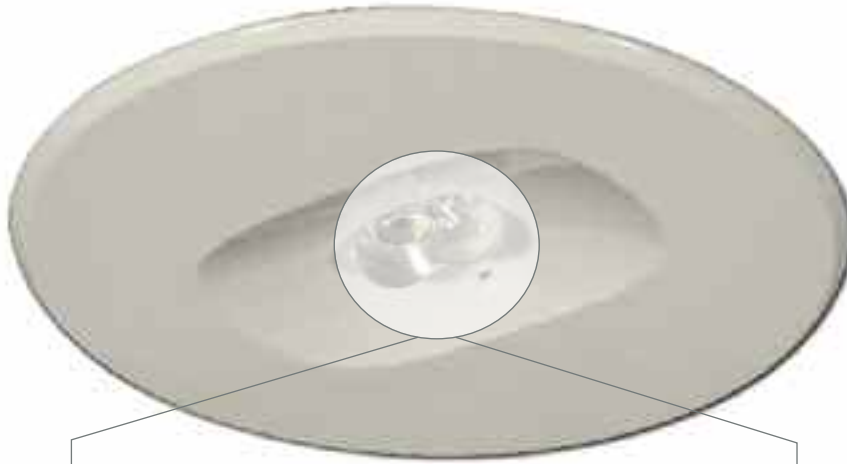
| W** | Order Code | Description         | Version | Autonomy | Battery | n° LEDs | Flux** SE lm | Flux SA lm | Absorption W | Weight kg | Pack |
|-----|------------|---------------------|---------|----------|---------|---------|--------------|------------|--------------|-----------|------|
| 24  | 19330      | L.LARG DW RC HT 24W | -       | -        | -       | 1       | -            | 250        | 5,5          | 0,7       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22



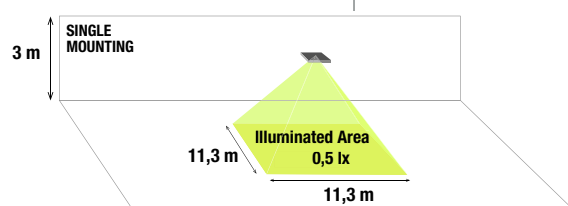
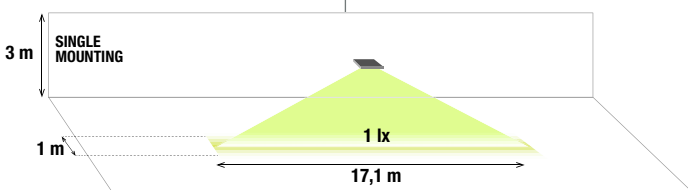
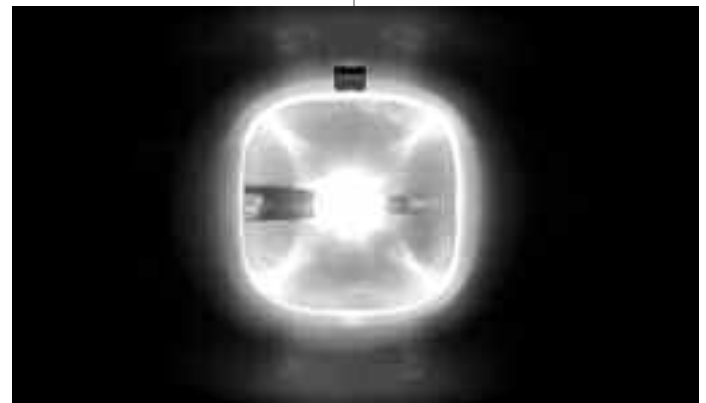
| LENS         | Lamps | Cover   |
|--------------|-------|---|
| LUNGALUCE 3m | 1     | Covers an escape route of 17.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle   |
|              | 2     | Centre distance 18m between the lamps covering an escape route of 35.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle |
| LARGALUCE 3m | 1     | Covers a surface of 11.3m x 11.3m with at least 0.5lux with the exception of a 0.5 m perimeter  |
|              | 4     | Centre distance 13.2m covering a surface of 24.5m x 24.5m with at least 0.5lux with the exception of a 0.5 m perimeter                  |

## One fixture for several applications



**LUNGALUCE - LONG LENS**

**LARGALUCE - WIDE LENS**

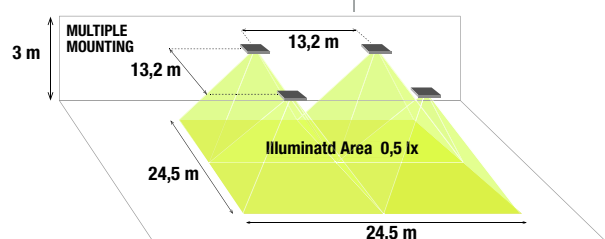
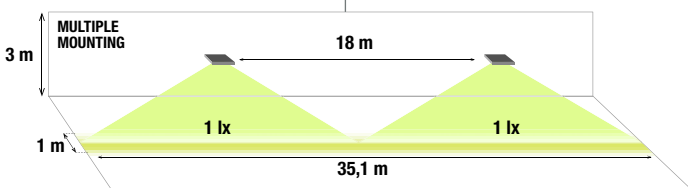


**Single mounting**

covering an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1 m

**Single mounting**

illuminates a surface of 11.3x11.3m at 0.5 lux (128 sq.m)



**Multiple mounting, fixture centre distance 18m**

covering an escape route of 35.1m with 1 lux in the middle and > 0.5 within 1 m

**Multiple mounting, fixture centre distance 13.2 m**

illuminates a surface of 24.5x24.5m at 0.5 lux (600 sq.m)



Andreas Christ  
ENDS III  
2014, 100 x 150 cm





Positioning on an escape route with design requirements and in the presence of the public: a single recessed fixture illuminates a path of up to 18 metres.



# Ticinque LED

Lighting  
The design of safety  
for large spaces

When luminous flux makes a difference Ticinque LED Granluce comes into play. Thanks to the extensive surface of the double reflection optics that integrates two highly-effective LED: the emission of “useful light” is at the top of its class offering the right level of illumination for large-scale commercial environments. The body structure is also designed for installation in industrial environments. It can be connected both with smooth and corrugated tubes on the four sides of the device and offers IP65 protection.

# Ticinque LED

## LED Emergency

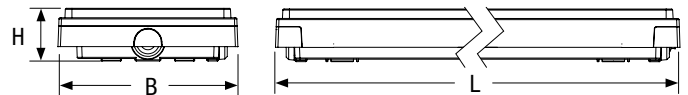
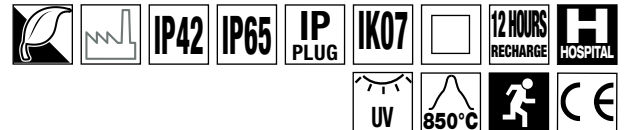


**1250  
lumen**

### GENERAL CHARACTERISTICS

- Power \*** 18, 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non permanent (SE)
- Standard** EN 60598-1, EN 60598-2-22, UNI EN 1838
- Protection grade** IP65, IP42
- Autonomy** 1, 2, 3h - 8h (model 18W)
- Working temp.** 0 ÷ +40 °C
- Working temp.** 0°C ÷ +40°C
- Installazione** wall, ceiling
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Louvre** Transparent Polycarbonate
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



| Power * | • Dimensions (mm) • |     |    | DV diffuser |
|---------|---------------------|-----|----|-------------|
|         | L                   | B   | H  |             |
| 18      | 549                 | 147 | 43 | 25 m        |

\* Indicative power for comparison with fluorescent tube fixtures

## Accessories

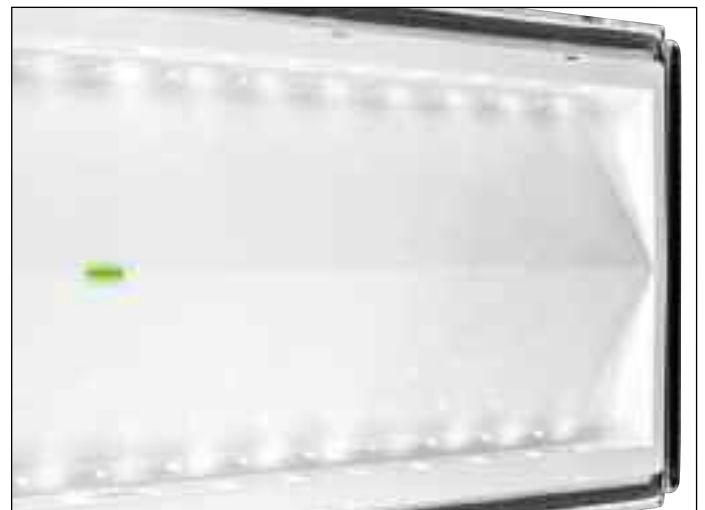
supplied

| Order code | Description  |
|------------|--|
| -          | no. 3 IP PLUG MEMBRANES PRE-MOUNTED ON THREE EXITS (HIGH, RIGHT, LEFT) |
| -          | no. 1 INVISIBLE CONNECTOR COMPLETE WITH IP PLUG MEMBRANE               |

## Accessories

to be ordered separately

| Order code   | Description             |
|--------------|-------------------------|
| <b>11582</b> | ADES EXIT TICINQUE LED  |
| <b>11583</b> | ADES LEFT TICINQUE LED  |
| <b>11584</b> | ADES RIGHT TICINQUE LED |
| <b>11585</b> | ADES DOWN TICINQUE LED  |



**CUNEIFORM DOUBLE REFLECTOR WITH LED SIGNAL**

**CEILING MOUNTING**



**WALL MOUNTING**

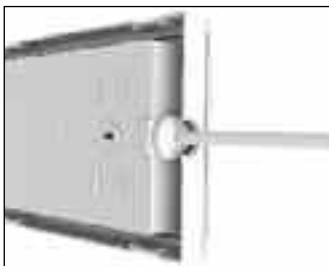


**CABLE GLAND**



- CABLE GLAND PG16/PG20 supplied

**CABLE GROMMETS**



- 3 IP CABLE GROMMETS supplied

**SAFETY SIGNALING** (Visibility Distance VD in table)



- LABELS IN ACCESSORIES TABLE *to be ordered separately*

**TR Granluce** Traditional

| W  | Order code  | Description              | Model | Autonomy | Battery   | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|-------------|--------------------------|-------|----------|-----------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 24 | <b>8590</b> | GRANLUCE T5LED IP65 SE2H | SE    | 2h       | PB 6V 4Ah | 32     | 800                   |                       | 5                       | 2            | 1/6            |
| 24 | <b>8591</b> | GRANLUCE T5LED IP65 SA2H | SA    | 2h       | PB 6V 4Ah | 32     | 800                   | 180                   | 5/8                     | 2            | 1/6            |

**TR** Traditional **IP42**

| W  | Order code  | Description               | Model | Autonomy | Battery   | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|-------------|---------------------------|-------|----------|-----------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 18 | <b>8584</b> | TICINQUE IP42 LED 18WSE8P | SE    | 8h       | PB 6V 4Ah | 32     | 260                   |                       | 2                       | 1.8          | 1/6            |
| 18 | <b>8585</b> | TICINQUE IP42 LED 18WSA8P | SA    | 8h       | PB 6V 4Ah | 32     | 260                   | 180                   | 2/4                     | 1.8          | 1/6            |

**TR** Traditional **IP65**

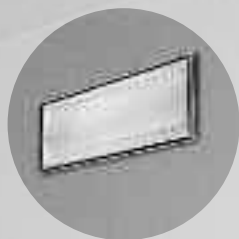
| W  | Order code  | Description               | Model | Autonomy | Battery   | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|-------------|---------------------------|-------|----------|-----------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 18 | <b>8586</b> | TICINQUE IP65 LED 18WSE8P | SE    | 8h       | PB 6V 4Ah | 32     | 260                   |                       | 2                       | 1.8          | 1/6            |
| 18 | <b>8587</b> | TICINQUE IP65 LED 18WSA8P | SA    | 8h       | PB 6V 4Ah | 32     | 260                   | 180                   | 2/4                     | 1.8          | 1/6            |

**AT Granluce** Autotest

| W  | Order code  | Description                   | Model | Autonomy | Battery   | N° LED | Average Flux<br>SE lm | Average Flux<br>SA lm | Power consump.<br>max W | Weight<br>kg | Pack<br>single |
|----|-------------|-------------------------------|-------|----------|-----------|--------|-----------------------|-----------------------|-------------------------|--------------|----------------|
| 24 | <b>8592</b> | GRANLUCE T5LED AT IP65 SE123H | SE    | 1-2-3h   | PB 6V 4Ah | 32     | 1250/800/550          |                       | 5                       | 2            | 1/6            |
| 24 | <b>8593</b> | GRANLUCE T5LED AT IP65 SA123H | SA    | 1-2-3h   | PB 6V 4Ah | 32     | 1250/800/550          | 400                   | 5/15                    | 2            | 1/6            |







Installation in a shopping center in which the device must illuminate a particularly extensive area. In addition, the technological design is particularly suitable in the presence of various technical structures for the display of merchandise.



# Granluce led

Design and versatility  
IP65 Protection degree  
for multiple applications



An IP65 fixture that is able to combine clean lines with a particularly captivating louvre, “it does not go unnoticed” and is ideal for particularly technical or modern environments; the possibility of mounting it recessed in the wall also satisfies the most refined aesthetic demands. GranluceLED also has an ecological heart that pays attention to energy saving: the battery charging system constantly reads the level of residual energy so as to reduce absorption once the cycle has been completed.

# Granluce LED 6-11 W

LED Emergency

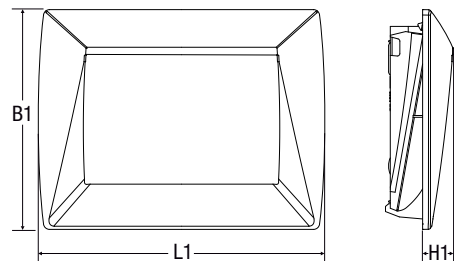
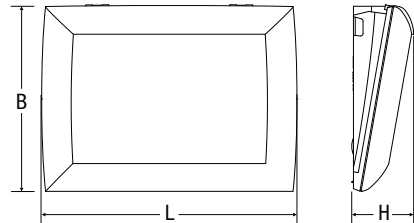
Fixture with high technical lighting output. LED light source with controlled beam lens. Dust-resistant monolithic optics. Polycarbonate housing, high-transparency diffuser. Large-radius reflector in metallized Polycarbonate with a geometry of complex facets and sequential reflecting planes. Waterproofing gasket in anti-ageing expanded EPDM, resistant to atmospheric agents. High-efficiency electronic circuit in versions SE, SA, with autonomy of 1 or 3 hours.



## GENERAL CHARACTERISTICS

- Power\*\*** 6, 11, 8, 18, 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection grade** IP65
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling, recessed
- Housing** Polycarbonate, white RAL 9010
- Optics** Asymmetrical with complex facets, metallized
- Louvre** Transparent Polycarbonate
- Light source** LED

\*\* Indicative power for comparison with fluorescent tube fixtures



recessed model

| Power**<br>W | • Dimensions (mm) • |     |    |     |     |    |
|--------------|---------------------|-----|----|-----|-----|----|
|              | L                   | B   | H  | L1  | B1  | H1 |
| 6            | 213                 | 155 | 52 | 240 | 184 | 25 |
| 11           | 213                 | 155 | 52 | 240 | 184 | 25 |

## Accessories

supplied

| Order code | Description                   |
|------------|-------------------------------|
| 3727       | CABLE GLAND PG16/PG20 4003/RG |

## Accessories

to be ordered separately

| Order code | Description         |
|------------|---------------------|
| 12942      | KIT RECESSED 6,11 W |

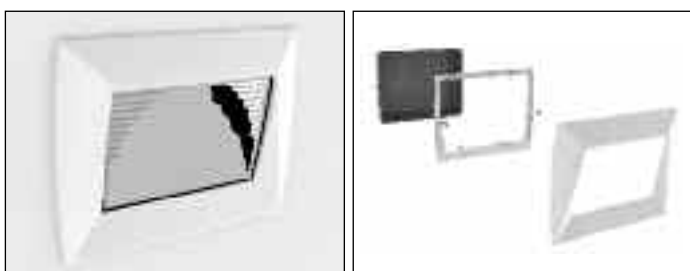
### CEILING MOUNTING



### WALL MOUNTING

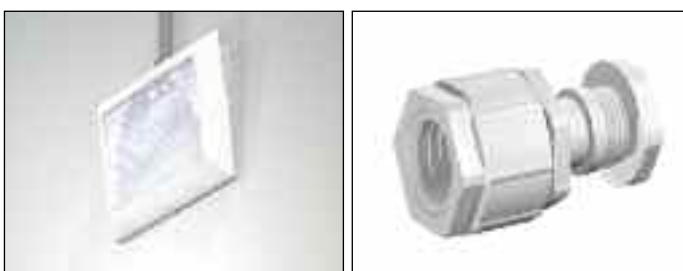


### RECESSED MOUNTING



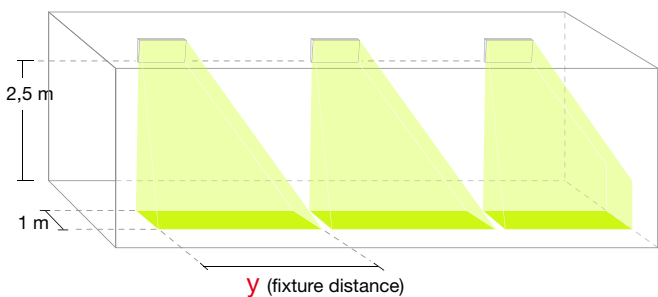
**12942** RECESS KIT 6, 11W to be ordered separately

### WALL MOUNTING IP65



**3727** CABLE GLAND PG16/PG20 4003/RG supplied

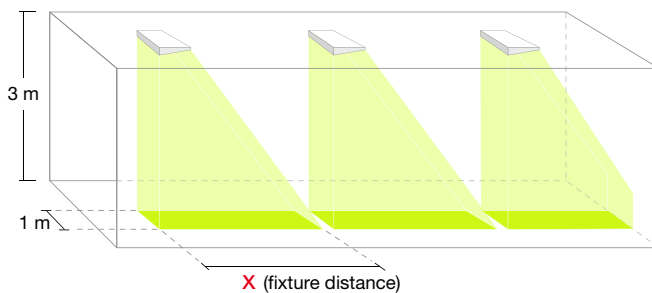
## MOUNTING FOR ESCAPE ROUTES ON WALL



### LIGHT BEAM 6-11 W

|   | 6 W | 11 W  |
|---|-----|-------|
| y | 5 m | 5.5 m |

## MOUNTING FOR ESCAPE ROUTES ON CEILING



### LIGHT BEAM 6-11 W

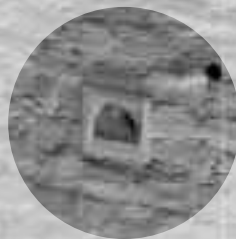
|   | 6 W | 11 W |
|---|-----|------|
| x | 4 m | 4 m  |

## AT Autotest

|  | W** | Order code | Description                                 | Model | Autonomy | Battery          | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|--|-----|------------|---|-------|----------|------------------|--------|-------------|-------------|--------------|-----------|------|
|  | 03  | 6          | <b>12950</b> GRANLUCE LED IP65 AT 6W SE1NRM | SE    | 1h       | NiCd 4.8V 0.75Ah | 1      | 58          | -           | 0,2          | 0,6       | 12   |
|  | 03  | 6          | <b>12951</b> GRANLUCE LED IP65 AT 6W SE3NRM | SE    | 3h       | NiCd 4.8V 1.7Ah  | 1      | 58          | -           | 0,2          | 0,7       | 12   |
|  | 03  | 11         | <b>12956</b> GRANLUCE LED IP65 AT 11WSE1NRM | SE    | 1h       | NiCd 4.8V 0.75Ah | 1      | 82          | -           | 0,2          | 0,6       | 12   |
|  | 03  | 11         | <b>12957</b> GRANLUCE LED IP65 AT 11WSE3NRM | SE    | 3h       | NiCd 4.8V 1.7Ah  | 1      | 82          | -           | 0,2          | 0,7       | 12   |

\* Minimum flux guaranteed according to EN 60598-2-22

Recessed wall mounting, close to the ceiling (H 4 m) thanks to the diffusing beam directed downwards.

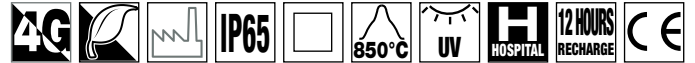




# Granluce LED 8-18-24 W

LED Emergency

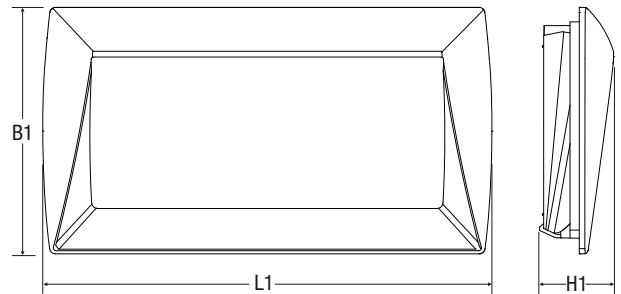
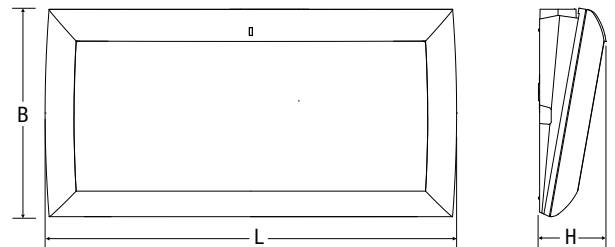
Fixture with high technical lighting output. LED light source with controlled beam lens. Dust-resistant monolithic optics. Polycarbonate housing, high-transparency diffuser. Large-radius parabola in metallized Polycarbonate with a geometry of complex facets and sequential reflecting planes. Waterproofing gasket in anti-ageing expanded EPDM, resistant to atmospheric agents. High-efficiency electronic circuit in versions SE, SA, with autonomy of 1 or 3 hours.



## GENERAL CHARACTERISTICS

- Power\*\*** 8, 18, 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non Permanent (SE), HT
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection grade** IP65
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling, recessed
- Housing** Polycarbonate, white RAL 9010
- Optics** Asymmetrical with complex facets, metallized
- Louvre** Transparent Polycarbonate
- Light source** LED

\*\* Indicative power for comparison with fluorescent tube fixtures



recessed model

| Power**<br>W | • Dimensions (mm) • |     |    |     |     |    | Visibility distance (DV)<br>pictogram |
|--------------|---------------------|-----|----|-----|-----|----|---------------------------------------|
|              | L                   | B   | H  | L1  | B1  | H1 |                                       |
| 8            | 355                 | 180 | 58 | 388 | 213 | 30 | 26 m                                  |
| 18           | 355                 | 180 | 58 | 388 | 213 | 30 | 26 m                                  |
| 24           | 355                 | 180 | 58 | 388 | 213 | 30 | 26 m                                  |

## Accessories

supplied

| Order code | Description                             |
|------------|---|
| 3727       | CABLE GLAND PG16/PG20 4003/RG           |
| 12941      | SIGN LABELS 8,18,24 W (only version SA) |

### CEILING MOUNTING



## Accessories

to be ordered separately

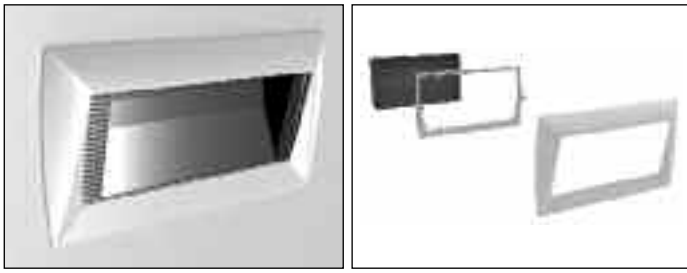
| Order code | Description            |
|------------|------------------------|
| 12943      | RECESSED KIT 8,18,24 W |
| 12941      | SIGN LABELS 8,18,24 W  |

### WALL MOUNTING





## RECESSED MOUNTING



**12942** RECESS KIT 6, 11W to be ordered separately

## WALL MOUNTING IP65



**3727** CABLE GLAND PG16/PG20 supplied

## ANTI-PANIC MOUNTING ON WALL

### LIGHT BEAM 2 LED

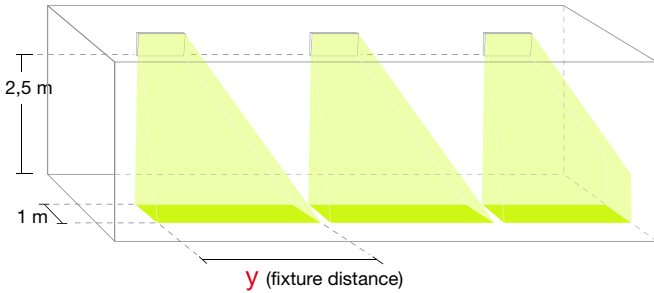
**Surface** 20 sq.m  
**Illumination** 0.5 lux (on floor)

## ANTI-PANIC MOUNTING ON CEILING

### LIGHT BEAM 2 LED

**Surface** 12 sq.m  
**Illumination** 0.5 lux (on floor)

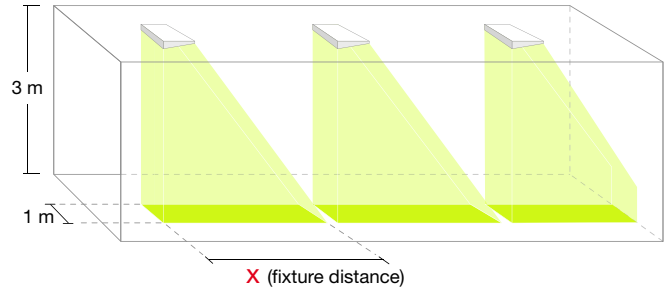
## MOUNTING FOR ESCAPE ROUTES ON WALL



### LIGHT BEAM 8-18-24 W

|   | 8 W   | 18 W  | 24W   |
|---|-------|-------|-------|
| y | 5.5 m | 6.5 m | 7.5 m |

## MOUNTING FOR ESCAPE ROUTES ON CEILING



### LIGHT BEAM 8-18-24 W

|   | 8 W   | 18 W  | 24W |
|---|-------|-------|-----|
| x | 4.5 m | 5.5 m | 7 m |

## AT

Autotest

|   | W** | Order code   | Description                    | Version | Autonomy | Battery         | n° LEDs | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|---|-----|--------------|--------------------------------|---------|----------|-----------------|---------|-------------|-------------|--------------|-----------|------|
|   | 8   | <b>12952</b> | GRANLUCE LED IP65 AT 8W SE1NRM | SE      | 1h       | NiCd 6V 0.75Ah  | 2       | 60          | -           | 0,2          | 0,8       | 6    |
| H | 8   | <b>12953</b> | GRANLUCE LED IP65 AT 8W SE3NRM | SE      | 3h       | NiCd 7.2V 1.7Ah | 2       | 60          | -           | 0,2          | 0,9       | 6    |
|   | 8   | <b>12954</b> | GRANLUCE LED IP65 AT 8W SA1NRM | SA      | 1h       | NiCd 6V 0.75Ah  | 2       | 60          | 45          | 0,3          | 0,8       | 6    |
| H | 8   | <b>12955</b> | GRANLUCE LED IP65 AT 8W SA3NRM | SA      | 3h       | NiCd 7.2V 1.7Ah | 2       | 60          | 45          | 0,3          | 0,9       | 6    |
|   | 18  | <b>12960</b> | GRANLUCE LED IP65 AT 18WSE1NRM | SE      | 1h       | NiCd 6V 0.75Ah  | 2       | 116         | -           | 0,2          | 0,8       | 6    |
| H | 18  | <b>12961</b> | GRANLUCE LED IP65 AT 18WSE3NRM | SE      | 3h       | NiCd 7.2V 1.7Ah | 2       | 116         | -           | 0,2          | 0,9       | 6    |
|   | 18  | <b>12962</b> | GRANLUCE LED IP65 AT 18WSA1NRM | SA      | 1h       | NiCd 6V 0.75Ah  | 2       | 116         | 75          | 0,3          | 0,8       | 6    |
| H | 18  | <b>12963</b> | GRANLUCE LED IP65 AT 18WSA3NRM | SA      | 3h       | NiCd 7.2V 1.7Ah | 2       | 116         | 75          | 0,3          | 0,9       | 6    |
|   | 24  | <b>12964</b> | GRANLUCE LED IP65 AT 24WSE1NRM | SE      | 1h       | NiCd 4.8V 1.7Ah | 2       | 142         | -           | 0,2          | 0,8       | 6    |
| H | 24  | <b>12965</b> | GRANLUCE LED IP65 AT 24WSE3NRM | SE      | 3h       | NiCd 7.2V 1.7Ah | 2       | 142         | -           | 0,2          | 0,9       | 6    |
|   | 24  | <b>12966</b> | GRANLUCE LED IP65 AT 24WSA1NRM | SA      | 1h       | NiCd 4.8V 1.7Ah | 2       | 142         | 75          | 0,3          | 0,8       | 6    |
|   | 24  | <b>12967</b> | GRANLUCE LED IP65 AT 24WSA3NRM | SA      | 3h       | NiCd 7.2V 1.7Ah | 2       | 142         | 75          | 0,3          | 0,9       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22

## SLG

| W   | Order code   | Description            | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|-----|--------------|------------------------|-------|----------|---------|--------|-------------|-------------|--------------|-----------|------|
| 3,6 | <b>17332</b> | GRANLUCE 2LED SLG IP65 | SE/SA | 1/3h     | -       | 2      | -           | -           | -            | 0,8       | 6    |

## HT

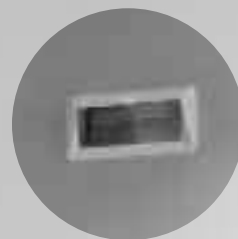
Mains voltage power supply (ca 230V 50 Hz - cc 216V)

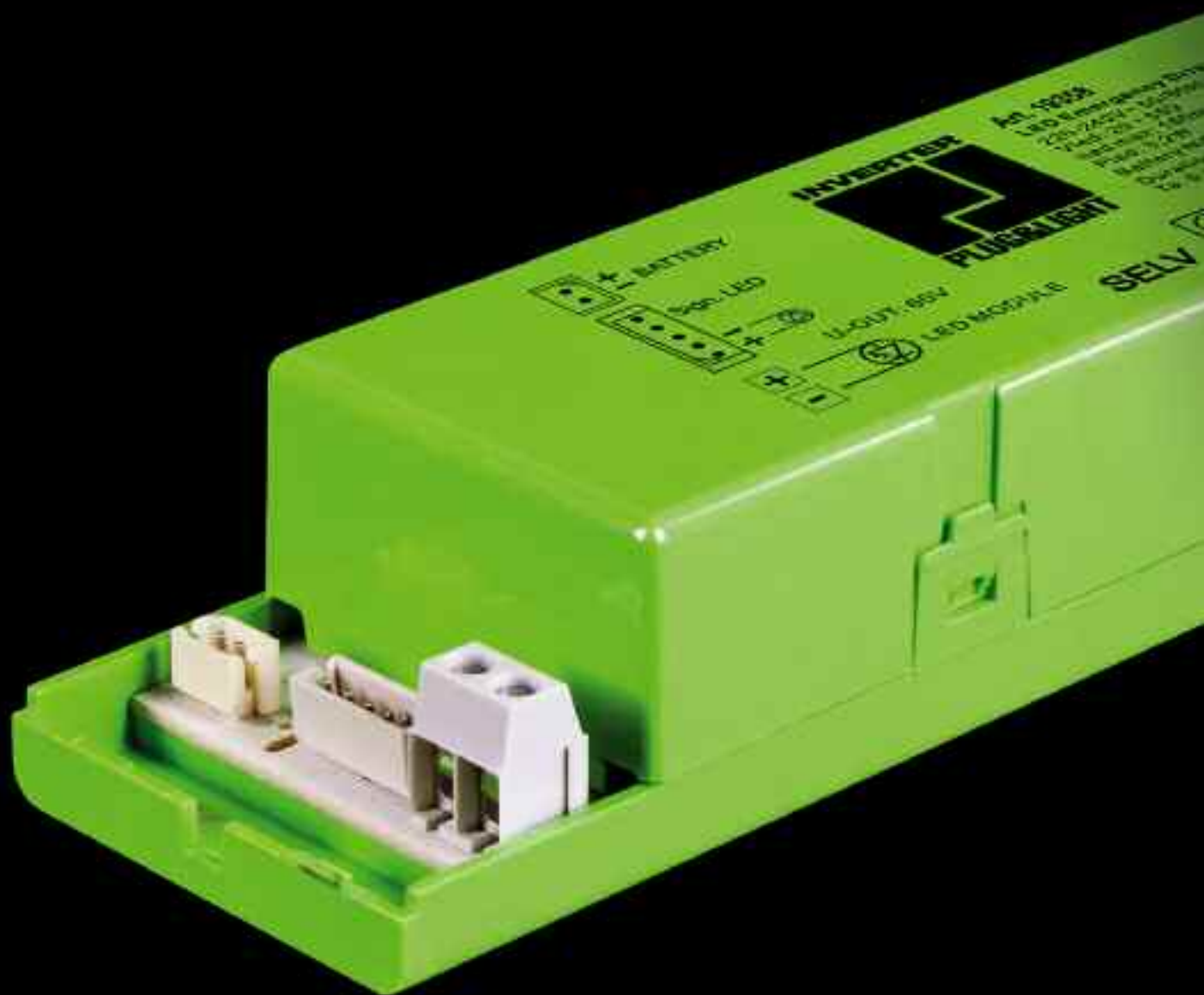
| W   | Order code   | Description           | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|-----|--------------|-----------------------|-------|----------|---------|--------|-------------|-------------|--------------|-----------|------|
| 3,6 | <b>17422</b> | GRANLUCE 2LED HT IP65 | SE/SA | 1-3h     | -       | 2      | -           | -           | -            | 0,8       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22



Recessed mounting on wall. Thanks to the recessed system with a design plate, the emergency fixture acquires an elegant and technological appearance.





# Plug&Light LED Inverter

Immediate connection  
Emergency Lighting of the highest level,  
no re-wiring  
integrated

The Plug & Light system marks the new frontier for inverters with integration of the emergency unit into lighting fixtures.

The system is the evolution of the new Beghelli philosophy that was first presented with the Smart Driver, innovative power suppliers that can be customized according to specific needs by connecting the various intelligent modules (domotic radio module, autodimmer, Dali, Grande Esco Energy Counter), and in the same spirit, includes the Plug & Light Inverter.

This inverter is immediately connected thanks to the rapid insertion connector that can be directly inserted in the Driver SD present in all Stella Polare LED devices.

The system was developed to make installation of the inverter faster without compromising the features and the regularity conformity of the LED device in which it is installed as no wiring is required.

Connection takes only a few seconds. In addition, the compact cabinet also includes the battery pack eliminating the problem of the siting and attachment of the power source during emergency functioning.



# Inverter LED Plug&Light

Immediate connection inverter

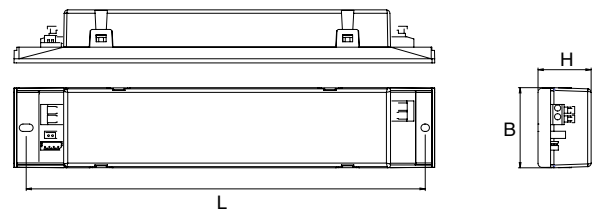
Inverter based on Plug&Light patented technology, equipped with a rapid connector that is compatible with SD (Smart Driver) that comes as standard in all the devices in the Stella Polare LED range. The inverter cabinet incorporates the battery pack and features a cable cover for use removed from the device, such as in the case of Led Panel or Down light LED, where it is housed in the suspended ceiling. The system includes the Battery Control System (BCS) with multi-color LED signaling system to show battery status, and is compatible with all LED devices equipped with SELV certified drivers to which it can be quickly connected using the fast universal terminal board. The Plug&Light system guarantees the highest level of performance (for example when installed on BS 100 LED it provides emergency power of 407 lm), constant output power and complete maintenance of the conformity features of the Smart Driver device that it is connected to.



## GENERAL CHARACTERISTICS

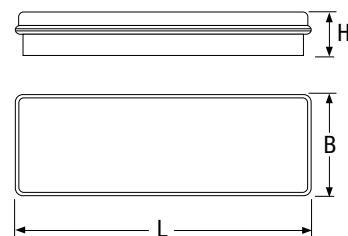
|                               |   |
|-------------------------------|---|
| <b>Output power</b>           | 3.2W constant   |
| <b>Power supply</b>           | 230Vac 50Hz   |
| <b>Operation</b>              | Permanent/Non Permanent (SAVSE)<br>RM with optional control device<br>(cod. 2730) |
| <b>Standard</b>               | EN 61347-2-7, EN 61347-1,<br>EN 60598-1   |
| <b>Protection grade</b>       | IP40, IP65  |
| <b>Autonomy</b>               | 1h, 3h  |
| <b>Tensione di uscita</b>     | 20 - 60 Vdc (19358, 19359)<br>60 - 180Vdc (19367)                                 |
| <b>Working temp.</b>          | 0°C ÷ +40°C   |
| <b>Batteria</b>               | NiCd 7.2V 0.75Ah (1h)<br>NiMH 7.2V 1.5Ah (3h)                                     |
| <b>LED di stato</b>           | Bi-color with PC pilot light (BCS)  |
| <b>Housing</b>                | Polycarbonate   |
| <b>Corrente max di uscita</b> | 160 mA  |
| <b>Tempo di ricarica</b>      | 24h   |

model IP40



| IP | • Dimensions (mm) • |    |    | Weight<br>max kg |
|----|---------------------|----|----|------------------|
|    | L                   | B  | H  |                  |
| 40 | 239                 | 46 | 30 | 0.3              |

model IP65

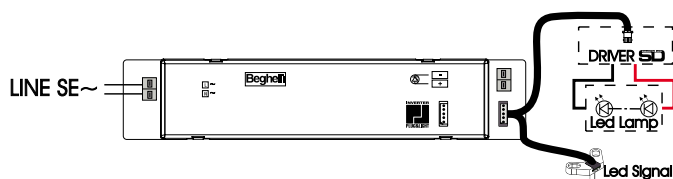


| IP | • Dimensions (mm) • |     |    | Weight<br>max kg |
|----|---------------------|-----|----|------------------|
|    | L                   | B   | H  |                  |
| 65 | 301                 | 139 | 55 | 0.8              |

## Accessories

supplied

| Order code | Description  |
|------------|--------------|
| -          | CABLE COVERS |



shield with SD Driver

**EXAMPLE OF CALCULATION OF THE DOWN FLUX FOR 100 LED (SMART DRIVER) WITH PLUG&LIGHT INVERTER WITH 1 HOUR OF AUTONOMY (code 19358)**

The Plug&Light inverter enables optimum lighting performance to be obtained from the device on which it is installed. Below is the method of calculation used to calculate the nominal flux that can be obtained in an emergency (example provided)

$$\text{Flux} = P_{\text{inverter}} \times \frac{F_n}{P_n} \text{ where:}$$

P = Inverter nominal power (in the 1h version = 3.2W)  
 F<sub>n</sub> = Device nominal flux (for BS100 LED = 7500lm)  
 P<sub>n</sub> = LED nominal power (for BS100 LED = 59W)

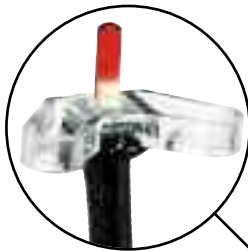
$$\text{Flux} = 3,2 \times \frac{7500}{59} = 407\text{lm}$$



**BATTERY CONTROL SYSTEM**

The warning LED follows new protocols linked to compliance with Standard CEI EN 60598-2-22, which expressly requires the signalling of a battery malfunction which, in the case of UP•LED, is indicated instantaneously with the appearance of the colour red on the multicolour warning led (Battery Control System BCS).

**Red warning LED:**  
**BATTERY MALFUNCTION**



**Green warning LED:**  
**FIXTURE FULLY EFFICIENT**



immediate connection with SmartDriver

**TR**

**BATTERY CONTROL SYSTEM** IP65

| W   | Order code   | Description                         | Model | Autonomy | Battery          | Absorption max W | Pack single |
|-----|--------------|-------------------------------------|-------|----------|------------------|------------------|-------------|
| 3,2 | <b>19358</b> | INV PLUG&LIGHT LED SE/SA 1H 20-60V  | SE/SA | 1h       | NiCd 7.2V 0.75Ah | 1                | 1/12        |
| 3   | <b>19359</b> | INV PLUG&LIGHT LED SE/SA 3H 20-60V  | SE/SA | 3h       | NiMH 7.2V 1.5Ah  | 1                | 1/12        |
| 3,2 | <b>19367</b> | INV PLUG&LIGHT LED SE/SA 1H 60-180V | SE/SA | 1h       | NiCd 7.2V 0.75Ah | 1                | 1/12        |

**TR**

**BATTERY CONTROL SYSTEM** IP65

| W | Order code   | Description                             | Model | Autonomy | Battery         | Absorption max W | Pack single |
|---|--------------|---|-------|----------|-----------------|------------------|-------------|
| 3 | <b>19368</b> | INV PLUG&LIGHT LED SE/SA 3H 20-60V IP65 | SE/SA | 3h       | NiMH 7.2V 1,5Ah | 1                | 1/12        |





# Inverter LED

the emergency  
IP40-IP65  
in lighting

The new range of inverters for LED devices is characterised by superb performance and flexibility. Available in IP40 and IP65 versions, the inverter is ideal for use with the latest-generation lighting technologies, for an unprecedented technical alliance.

For both complex and high installations. The ability to transform high-efficiency LED fixtures into emergency lighting may become the only possible solution which guarantees adequate results. In addition, the availability of radio versions (LGFM) serves as further confirmation of the technological excellence of this range of devices, each designed to successfully resolve all safety lighting issues.



## Inverter LED

Electronic control gear for emergency lighting to light the LED modules. Autonomy independent of the lamp and selectable, 1 hour, 2 hours and 3 hours.

The control of the output current with PWM modulation at a constant peak current allows the best control of the LED module, avoiding effects of distortion of the light flux and of the LED colour temperature. Maximum versatility for a LED conversion kit. Self-adapting output voltage with automatic load recognition. Output power independent of the connected LED module, and from today, thanks to the new Autoripara Battery, the safety and power are doubled.

The LED conversion kit is able to recognize the presence of the second battery and to double the power output from 6w to 12w.

The recharging system guarantees 1h of autonomy after 12h of recharging in the 2h and 3h configurations.

The disconnection by relay of the power supply arriving from the driver and of the LED circuit make the Beghelli LED conversion kit a universal product, compatible with all drivers.

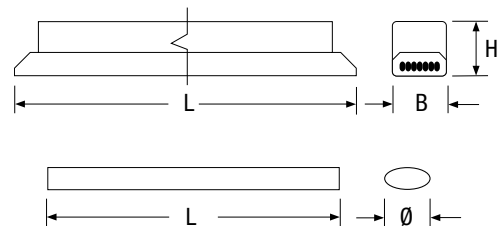
If not reached by the BUS, the LG version automatically performs self-diagnosis (AutoTest).

### GENERAL CHARACTERISTICS

|                                |  |
|--------------------------------|--|
| <b>Max output power</b>        | 6W - 12W (with Autoripara battery)                                     |
| <b>Power supply</b>            | 230Vac 50Hz  |
| <b>Operation</b>               | SA (Permanente), RM (con dispositivo di controllo opzionale cod. 2730) |
| <b>Standard</b>                | EN 61347-2-7, EN 61347-2-13, EN 61347-1, EN 62034                      |
| <b>Protection grade</b>        | IP40, IP65   |
| <b>Autonomy</b>                | 1h, 3h   |
| <b>Output voltage</b>          | 6V - 55V   |
| <b>Peak output current</b>     | 500mA  |
| <b>Tempo di ricarica</b>       | 24h  |
| <b>Temp. Ambiente</b>          | 0 + 50°C (Battery)<br>-20 + 50°C (Inverter)                            |
| <b>Max temperatura sul Box</b> | 70°C   |
| <b>Recharging current</b>      | 85mA   |
| <b>Battery</b>                 | NiMh 7.2V 1.7Ah (high temperature)                                     |
| <b>Rest Mode</b>               | with optional control device (Cod. 12101)                              |
| <b>Status Led</b>              | Bi-color   |
| <b>Auto testart</b>            | Compatible with test button in the AT configuration                    |
| <b>Housing</b>                 | Polycarbonate  |



model IP40



| IP | Inverter dimensions (mm) |    |    | battery dimensions (mm) |      |    | Weight max kg |
|----|--------------------------|----|----|-------------------------|------|----|---------------|
|    | L                        | B  | H  | L                       | Ø    | H  |               |
| 40 | 232                      | 30 | 26 | 132                     | 17,5 | 35 | 0.3           |

model IP65



| IP | dimensions Inverter (mm) |     |    | dimensions battery (mm) |   |   | Weight max kg |
|----|--------------------------|-----|----|-------------------------|---|---|---------------|
|    | L                        | B   | H  | L                       | Ø | H |               |
| 65 | 301                      | 139 | 55 |                         |   |   | 0.8           |

## Autoripara Battery



- 1 SAFETY:** the AUTORIPARA system intervenes if the main battery fails.
- 2 LUMINOUS FLUX:** operators can choose to set both batteries to operate simultaneously, doubling the luminous flux
- 3 AUTONOMY:** operators can choose to set both batteries to operate simultaneously, doubling the autonomy of the device

## AutoRipara Accessories

to be ordered separately

Order code    Description    Battery

**RA02**    BATT SYST AUTORIPARA conversion kit    NiMh 7.2V 1.7Ah



**EXAMPLE OF CALCULATION OF THE DOWN FLUX FOR 100 LED (SMART DRIVER) WITH LED INVERTER WITH 1 HOUR OF AUTONOMY (code 19355)**

The LED inverter enables optimum lighting performance to be obtained from the device on which it is installed. Below is the method of calculation used to calculate the nominal flux that can be obtained in an emergency (example provided)

$$\text{Flux} = P \text{ inverter} \times \frac{F_n}{P_n} \quad \text{where:}$$

P = Inverter nominal power (in the 1h model = 6W)  
 F<sub>n</sub> = Device nominal flux (for BS100 LED = 7500lm)  
 P<sub>n</sub> = LED nominal power (for BS100 LED = 59W)

$$\text{Flux} = 6 \times \frac{7500}{59} = 763\text{lm}$$

With Autoripara accessory:

$$\text{Flux} = 12 \times \frac{7500}{59} = 1525\text{lm}$$



**AT-LG** Logica

| W   | Order code   | Description                         | Control | Model | Autonomy | Battery         | Power LED with Autoripara Battery W | Absorption W | Pack |
|-----|--------------|-------------------------------------|---------|-------|----------|-----------------|-------------------------------------|--------------|------|
| 2÷6 | <b>19355</b> | INVERTER FULL LED AT/LG 6w 55V 123h | AT/LG   | SA    | 1-2-3H   | NiMh 7.2V 1.7Ah | 4÷12                                | 2            | 1    |

**AT-LG** Logica **IP65**

| W   | Order code   | Description                              | Control | Model | Autonomy | Battery         | Power LED with Autoripara Battery W | Absorption W | Pack |
|-----|--------------|--|---------|-------|----------|-----------------|-------------------------------------|--------------|------|
| 2÷6 | <b>19364</b> | INVERTER FULL LED AT/LG 6w 55V 123h IP65 | AT/LG   | SA    | 1-2-3H   | NiMh 7.2V 1.7Ah | 4÷12                                | 2            | 1    |

**AT-LGFM** Logica FM

| W   | Order code   | Description                        | Control | Model | Autonomy | Battery         | Power LED with Autoripara Battery W | Absorption W | Pack |
|-----|--------------|------------------------------------|---------|-------|----------|-----------------|-------------------------------------|--------------|------|
| 2÷6 | <b>19356</b> | INVERTER FULL LED LGFM 6w 55V 123h | LGFM    | SA    | 1-2-3H   | NiMh 7.2V 1.7Ah | 4÷12                                | 2            | 1    |

**AT-LGFM** Logica FM **IP65**

| W   | Order code   | Description                             | Control | Model | Autonomy | Battery         | Power LED with Autoripara Battery W | Absorption W | Pack |
|-----|--------------|---|---------|-------|----------|-----------------|-------------------------------------|--------------|------|
| 2÷6 | <b>19365</b> | INVERTER FULL LED LGFM 6w 55V 123h IP65 | LGFM    | SA    | 1-2-3H   | NiMh 7.2V 1.7Ah | 4÷12                                | 2            | 1    |



# Eletrtrinvertter

Can also be used  
Emergency turns lighting on  
with centralised systems



The Eletrtrinvertter range, which integrates emergency functionalities into standard lighting devices, is characterised by high performance and flexibility. Available in several versions, it is ideal for use with fluorescent lighting technologies, creating a highly efficient mix of technologies. For both complex installations and high installation heights, the ability to transform high-efficiency LED fixtures into emergency lighting may become the only possible solution which guarantees adequate results.



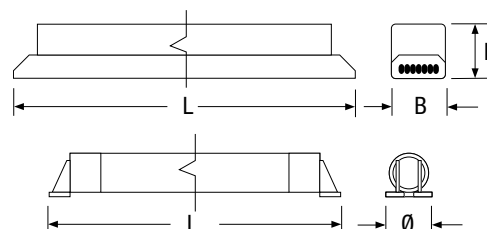
## Elettrinverter Logica

Electronic power supply unit for emergency lighting to illuminate fluorescent lamps (T8, T5 and TCL type). The autonomy of the device can be selected independently from the bulb - either 1 hour or 3 hours. The luminous flux is optimised in accordance with the range selected.

Operation at constant power. Tube switch-on with preheating of cathode and cathode heating control, for long tube life. **Rapid charging system, 12 hour charge time. Suitable for hospitals in 3 h configurations.**

### GENERAL CHARACTERISTICS

|                                |  |
|--------------------------------|--|
| <b>Potenza</b>                 | 13÷80 W  |
| <b>Power supply</b>            | 230Vac ± 10% 50Hz  |
| <b>Operation</b>               | Permanent (SA)   |
| <b>Standard</b>                | EN 61347-1, EN 61347-2-7   |
| <b>Protection grade</b>        | according to the fixture in which it is mounted  |
| <b>Autonomy</b>                | 1h - 3h, 1-2.20h   |
| <b>Temp. Ambiente</b>          | 0 + 50°C (Battery)<br>-20 + 50°C (Inverter)  |
| <b>Max temperatura sul Box</b> | 70°C   |
| <b>Specifiche</b>              | Nominal output frequency:<br>with 30kHz lamp<br>LED charging circuit activation light -<br>Charging time: 12 hours |
| <b>Housing</b>                 | polycarbonate  |



| Order code<br>Inverter | Dimensions Inverter (mm) |    |    | Dimensions battery (mm) |    |
|------------------------|--------------------------|----|----|-------------------------|----|
|                        | L                        | B  | H  | L                       | Ø  |
| 12126                  | 330                      | 30 | 30 | 335                     | 30 |

| Battery NiCd<br>7.2V 2.2Ah |          | Autonomy 1h | Autonomy 2h | Autonomy 3h |
|----------------------------|----------|-------------|-------------|-------------|
| <b>Battery current</b>     |          | 1.7A        |             | 0.6A        |
| Lamp                       | Socket   | Lamp Power  | Flux        | Flux        |
| T8                         | G13      | 18          | 48%         | 15%         |
|                            |          | 36          | 24%         | 6%          |
|                            |          | 58          | 14%         | 3%          |
| T5                         | G5<br>FH | 14          | 65%         | 22%         |
|                            |          | 21          | 42%         | 15%         |
|                            |          | 28          | 28%         | -           |
| T5                         | G5<br>FQ | 35          | 21%         | -           |
|                            |          | 24          | 41%         | 10%         |
|                            |          | 39          | 25%         | -           |
|                            |          | 49          | 15%         | -           |
|                            |          | 54          | 13%         | -           |
| TC-L                       | 2G11     | 80          | 8%          | -           |
|                            |          | 24          | 41%         | 10%         |
|                            |          | 36          | 24%         | 6%          |
|                            |          | 40          | 19%         | 5%          |
|                            |          | 55          | 9%          | -           |
| TCD*, TCE                  |          | 13          |             |             |
| TCTE                       |          | 18          |             |             |
| *only 4 couplings          |          | 26          |             |             |
| PIN with starter           |          | 32          |             |             |
| separate                   |          | 42          |             |             |

## LG Logica

|          | W     | Order code   | Description            | Model | Autonomy | Battery         | Absorption max. W | Weight kg | Pack |
|----------|-------|--------------|------------------------|-------|----------|-----------------|-------------------|-----------|------|
| <b>H</b> | 18÷58 | <b>12126</b> | ELETT 935 2 LG 14-80SA | SA    | 1-3h     | NiCd 7.2V 2.2Ah | -                 | 0.7       | 12   |

## LGFM Logica FM

|          | W     | Order code     | Description               | Model | Autonomy | Battery         | Absorption max. W | Weight kg | Pack |
|----------|-------|----------------|---------------------------|-------|----------|-----------------|-------------------|-----------|------|
| <b>H</b> | 18÷58 | <b>12126FM</b> | ELETT 935 2 LG FM 14-80SA | SA    | 1-2.20h  | NiCd 7.2V 2.2Ah | -                 | 0.8       | 12   |

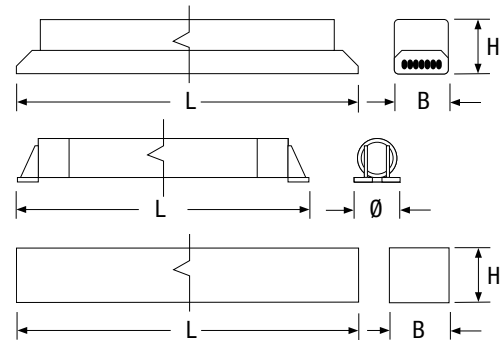
# Compact Elettrinverter

Electronic power supply unit for emergency lighting to illuminate fluorescent lamps (T8, T5 and TCL type). Can be easily installed inside ceiling lights. Complete with sealed rechargeable batteries with patented mounting system. The autonomy and luminous flux in an emergency situation is automatically adjusted in accordance with the bulb connected. Quick-fit connections. EN 61347-1, EN 61347-2-7.



## GENERAL CHARACTERISTICS

|                                |   |
|--------------------------------|---|
| <b>Potenza T5</b>              | 14÷80 W T5  |
| <b>T8</b>                      | 18÷58 W   |
| <b>Power supply</b>            | 230Vac ± 10% 50Hz   |
| <b>Operation</b>               | Permanent (SA), RM  |
| <b>Standard</b>                | EN 61347-1, EN 61347-2-7  |
| <b>Protection grade</b>        | according to the fixture in which it is mounted   |
| <b>Autonomy T5</b>             | 1h - 1h30 - 3h  |
| <b>T8</b>                      | 1h - 1h30 - 2h - 3h - 4h - 7h   |
| <b>Temp. Ambiente</b>          | 0 + 50°C (Battery)<br>-20 + 50°C (Inverter)   |
| <b>Max temperatura sul Box</b> | 70°C  |
| <b>Specifiche</b>              | Nominal output frequency:<br>with 20kHz lamp<br>LED charging circuit activation light -<br>Charging time: max 24 hours Option to<br>connect cables with a cross-section<br>of 0.75 to 1.5 mm <sup>2</sup> |
| <b>Housing</b>                 | Polycarbonate   |



| Order code<br>Inverter | Inverter Dimensions (mm) |    |    | Battery Dimensions (mm) |    | model |
|------------------------|--------------------------|----|----|-------------------------|----|-------|
|                        | L                        | B  | H  | L                       | Ø  |       |
| <b>T5</b>              |                          |    |    |                         |    |       |
| <b>8488, 8489</b>      | 230                      | 30 | 26 | 208                     | 29 | NiCd  |
| <b>8490, 8491</b>      | 230                      | 30 | 26 | 340                     | 37 | NiCd  |
| <b>8492, 8493</b>      | 230                      | 30 | 26 | 340                     | 37 | NiCd  |
| <b>T8</b>              |                          |    |    |                         |    |       |
| <b>8480, 8481</b>      | 230                      | 30 | 26 | 340                     | 37 | NiCd  |
| <b>8482, 8483</b>      | 230                      | 30 | 26 | 340                     | 37 | NiCd  |

| FLUX - AUTONOMY - model T5 |            |            |            |            |          |            |          |          |          |
|----------------------------|------------|------------|------------|------------|----------|------------|----------|----------|----------|
| Cod. ord.                  | 14 W       | 21 W       | 24 W       | 28 W       | 35 W     | 39 W       | 49 W     | 54 W     | 80 W     |
| <b>8488</b>                | 30% - 1h30 | 29% - 1h   | 30% - 1h30 | -          | -        | -          | -        | -        | -        |
| <b>8489</b>                | 30% - 1h30 | 29% - 1h   | 30% - 1h30 | -          | -        | -          | -        | -        | -        |
| <b>8490</b>                | 30% - 3h   | 30% - 1h30 | 30% - 1h30 | -          | -        | -          | -        | -        | -        |
| <b>8491</b>                | 30% - 3h   | 30% - 1h30 | 30% - 1h30 | -          | -        | -          | -        | -        | -        |
| <b>8492</b>                | -          | -          | -          | 30% - 1h30 | 30% - 1h | 30% - 1h30 | 25% - 1h | 15% - 1h | 12% - 1h |
| <b>8493</b>                | -          | -          | -          | 30% - 1h30 | 30% - 1h | 30% - 1h30 | 25% - 1h | 15% - 1h | 12% - 1h |

| FLUX - AUTONOMY - model T8 |          |            |           |
|----------------------------|----------|------------|-----------|
| Cod. ord.                  | 18 W     | 36 W       | 58 W      |
| <b>8480</b>                | 32% - 2h | 24% - 1h30 | 18% - 1h  |
| <b>8481</b>                | 32% - 2h | 24% - 1h30 | 18% - 1h  |
| <b>8482</b>                | 13% - 7h | 9% - 4h    | 8% - 3h   |
| <b>8483</b>                | 13% - 7h | 9% - 4h    | 8% - 3h   |
| <b>8478</b>                | 16% - 2h | 12% - 1h   | 0,8% - 1h |



## TR Traditional T5

| W     | Order code  | Description                  | Model | Battery         | Absorption max. W | Weight kg | Pack |
|-------|-------------|------------------------------|-------|-----------------|-------------------|-----------|------|
| 14÷24 | <b>8488</b> | EL 843/14-24 4.8V SA1N T5    | SA    | NiCd 4.8V 1.7Ah | 1,35              | 0.5       | 12   |
| 14÷24 | <b>8489</b> | EL 843/14-24 4.8V SA1N T5 RM | SA RM | NiCd 4.8V 1.7Ah | 1,35              | 0.5       | 12   |
| 14÷28 | <b>8490</b> | EL 843/14-24 6V SA3N T5      | SA    | NiCd 6V 4Ah     | 1,15              | 1.0       | 12   |
| 14÷28 | <b>8491</b> | EL 843/14-24 6V SA3N T5 RM   | SA RM | NiCd 6V 4Ah     | 1,15              | 1.0       | 12   |
| 28÷80 | <b>8492</b> | EL 843/28-80 6V SA1N T5      | SA    | NiCd 6V 4Ah     | 2,2               | 1.0       | 12   |
| 28÷80 | <b>8493</b> | EL 843/28-80 6V SA1N T5 RM   | SA RM | NiCd 6V 4Ah     | 2,2               | 1.0       | 12   |

## TR Traditional T8

| W     | Order code  | Description             | Model | Battery         | Absorption max. W | Weight kg | Pack |
|-------|-------------|-------------------------|-------|-----------------|-------------------|-----------|------|
| 18÷58 | <b>8480</b> | EL 843/18-58 6V SA1N    | SA    | NiCd 6V 4Ah     | 2,2               | 1.0       | 12   |
| 18÷58 | <b>8481</b> | EL 843/18-58 6V SA1N RM | SA RM | NiCd 6V 4Ah     | 2,2               | 1.0       | 12   |
| 18÷58 | <b>8482</b> | EL 843/18-58 6V SA3N    | SA    | NiCd 6V 4Ah     | 1,15              | 1.0       | 12   |
| 18÷58 | <b>8483</b> | EL 843/18-58 6V SA3N RM | SA RM | NiCd 6V 4Ah     | 1,15              | 1.0       | 12   |
| 18÷58 | <b>8478</b> | EL 843/18-58 4.8V SA1N  | SA    | NiCd 4.8V 1,7Ah | 5                 | 0.5       | 12   |

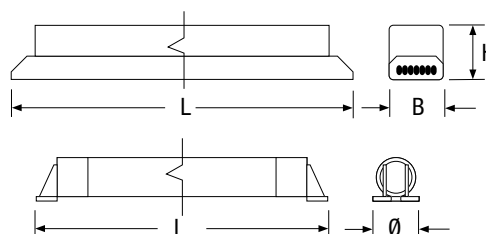
# Elettrinverter

Electronic power supply unit for emergency lighting to illuminate fluorescent lamps (T5, T8 and compact-type fluorescent tubes). Can be easily installed inside ceiling lights. Complete with sealed rechargeable batteries with patented mounting system. The autonomy and luminous flux in an emergency situation is automatically adjusted in accordance with the bulb connected. Quick-fit connections.



## GENERAL CHARACTERISTICS

|                                |  |
|--------------------------------|--|
| <b>Potenze T5</b>              | 15÷8 W   |
| <b>T8</b>                      | 18, 36, 58 W   |
| <b>Power supply</b>            | 230Vac ± 10% 50Hz  |
| <b>Operation</b>               | Permanent (SA), Non permanent (SE), RM   |
| <b>Standard</b>                | EN 61347-1, EN 61347-2-7   |
| <b>Protection grade</b>        | according to the fixture in which it is mounted  |
| <b>Autonomy T5</b>             | 1h - 1h15 - 1h30 - 2h - 2h30 - 3h - 4h   |
| <b>T8</b>                      | 1h - 1h15 - 1h30 - 2h - 2h30 - 3h - 4h   |
| <b>Temp. Ambiente</b>          | 0 + 50°C (BAttery)<br>-20 + 50°C (Inverter)  |
| <b>Max temperatura sul Box</b> | 70°C   |
| <b>Specifiche TR</b>           | Power supply: 230V~50Hz<br>Certificate for operation with linear fluorescent tubes of: 18, 36, 58W G13 (8348) 18, 36W G13 (8376)<br>Nominal output frequency:<br>with 20kHz lamp, without 50kHz lamp, LED charging circuit activation light -<br>Charging time: max 24 hours Option to connect cables with a cross-section of 0.75 to 1.5mm <sup>2</sup><br>Control temperature: TC 50°C |
| <b>AT, CT, CTOC</b>            | Supply voltage: 230V ~ 50Hz Designed for use with fluorescent lamps of 18 and 58W in power<br>Accumulators: NiCd 6V 4Ah control temperature: TC 50°C ambient temperature: 0 ÷ 40 ° C Nominal output frequency: with 20kHz lamp, without 90kHz lamp, LED charging circuit activation light - Charging time: 12 hours  |
| <b>Housing</b>                 | Polycarbonate  |



| AT                  |                          | T5    |       |                         |     |  |
|---------------------|--------------------------|-------|-------|-------------------------|-----|--|
| Order code Inverter | Dimensions Inverter (mm) |       |       | Dimensions battery (mm) |     |  |
|                     | L                        | B     | H     | L                       | Ø   |  |
| 9056                | 270                      | 40    | 36    | 370                     | 37  |  |
| 9057                | 270                      | 40    | 36    | 230                     | 30  |  |
| Lamp                | 14W                      | 28W   | 35W   | 54W                     | 80W |  |
| Flux%               | 33                       | 30    | 27    | 18                      | 15  |  |
| Autonomy            | 2h30'                    | 1h45' | 1h15' | 1h45'                   | 1h  |  |

| AT                  |                          | T8    |       |                         |    |
|---------------------|--------------------------|-------|-------|-------------------------|----|
| Order code Inverter | Dimensions Inverter (mm) |       |       | Dimensions battery (mm) |    |
|                     | L                        | B     | H     | L                       | Ø  |
| 2571                | 270                      | 40    | 36    | 370                     | 37 |
| 2572                | 270                      | 40    | 36    | 370                     | 37 |
| Lamp                | 18W                      | 36W   | 58W   |                         |    |
| Flux%               |                          | 30    | 19    | 17                      |    |
| Autonomy            |                          | 2h30' | 1h30' | 1h                      |    |

| TR                  |                          | T5  |       |                         |     |     |
|---------------------|--------------------------|-----|-------|-------------------------|-----|-----|
| Order code Inverter | Dimensions Inverter (mm) |     |       | Dimensions battery (mm) |     |     |
|                     | L                        | B   | H     | L                       | Ø   |     |
| 8333                | 232                      | 40  | 36    | 345                     | 37  |     |
| 8334                | 232                      | 40  | 36    | 345                     | 33  |     |
| Lamp                | 28W                      | 35W | 39W   | 49W                     | 54W | 80W |
| Flux%               | 30                       | 30  | 20    | 25                      | 15  | 12  |
| Autonomy            | 1h30'                    | 1h  | 1h30' | 1h                      | 1h  | 1h  |

| TR                  |                          | T8  |    |                         |    |
|---------------------|--------------------------|-----|----|-------------------------|----|
| Order code Inverter | Dimensions Inverter (mm) |     |    | Dimensions battery (mm) |    |
|                     | L                        | B   | H  | L                       | Ø  |
| 8376                | 232                      | 40  | 36 | 235                     | 30 |
| 8377                | 232                      | 40  | 36 | 235                     | 30 |
| Lamp                | 36W                      | 58W |    |                         |    |
| Flux%               |                          | 16  | 12 |                         |    |
| Autonomy            |                          | 2h  | 1h |                         |    |

| TR                     |                          | T5  |       |                         |    |  |
|------------------------|--------------------------|-----|-------|-------------------------|----|--|
| Order code<br>Inverter | Dimensions Inverter (mm) |     |       | Dimensions battery (mm) |    |  |
|                        | L                        | B   | H     | L                       | Ø  |  |
| <b>8206</b>            | 232                      | 40  | 36    | 208                     | 37 |  |
| <b>8207</b>            | 232                      | 40  | 36    | 208                     | 33 |  |
| Lamp                   | 14W                      | 21W | 24W   |                         |    |  |
| Flux%                  | 30                       | 29  | 20    |                         |    |  |
| Autonomy               | 1h30'                    | 1h  | 1h30' |                         |    |  |

| TR                     |                          | T8  |     |                         |    |  |
|------------------------|--------------------------|-----|-----|-------------------------|----|--|
| Order code<br>Inverter | Dimensions Inverter (mm) |     |     | Dimensions battery (mm) |    |  |
|                        | L                        | B   | H   | L                       | Ø  |  |
| <b>8348</b>            | 232                      | 40  | 36  | 210                     | 30 |  |
| <b>8349</b>            | 232                      | 40  | 36  | 210                     | 30 |  |
| Lamp                   | 18W                      | 36W | 58W |                         |    |  |
| Flux%                  | 16                       | 12  | 08  |                         |    |  |
| Autonomy               | 2h                       | 1h  | 1h  |                         |    |  |

| TR                     |                          | T8    |     |                         |    |  |
|------------------------|--------------------------|-------|-----|-------------------------|----|--|
| Order code<br>Inverter | Dimensions Inverter (mm) |       |     | Dimensions battery (mm) |    |  |
|                        | L                        | B     | H   | L                       | Ø  |  |
| <b>2551</b>            | 270                      | 40    | 36  | 400                     | 37 |  |
| <b>2542</b>            | 270                      | 40    | 36  | 400                     | 37 |  |
| Lamp                   | 18W                      | 36W   | 58W |                         |    |  |
| Flux%                  | 30                       | 19    | 17  |                         |    |  |
| Autonomy               | 2h30'                    | 1h30' | 1h  |                         |    |  |

| TR                     |                          | T8    |     |                         |    |  |
|------------------------|--------------------------|-------|-----|-------------------------|----|--|
| Order code<br>Inverter | Dimensions Inverter (mm) |       |     | Dimensions battery (mm) |    |  |
|                        | L                        | B     | H   | L                       | Ø  |  |
| <b>2553</b>            | 232                      | 40    | 36  | 220                     | 37 |  |
| <b>2544</b>            | 232                      | 40    | 36  | 220                     | 37 |  |
| Lamp                   | 18W                      | 36W   | 58W |                         |    |  |
| Flux%                  | 16                       | 12    | 08  |                         |    |  |
| Autonomy               | 2h                       | 1h15' | 1h  |                         |    |  |

| TR    |             |                            |       |               |                   |           |      | Traditional - T5 |
|-------|-------------|----------------------------|-------|---------------|-------------------|-----------|------|------------------|
| W     | Order code  | Description                | Model | Battery       | Absorption max. W | Weight kg | Pack |                  |
| 14÷24 | <b>8206</b> | ELETTRIN 933/14-24WSAT5    | SA    | NiCd 3.6V 4Ah | 6                 | 0.8       | 12   |                  |
| 28÷80 | <b>8333</b> | ELETTRINV 933/28-80WSAT5   | SA    | NiCd 6V 4Ah   | 6                 | 1.1       | 12   |                  |
| 14÷24 | <b>8207</b> | ELETTRIN933/14-24WSA/RMT5  | SA RM | NiCd 3.6V 4Ah | 6                 | 0.8       | 12   |                  |
| 28÷80 | <b>8334</b> | ELETTRINV933/28-80WSA/RMT5 | SA RM | NiCd 6V 4Ah   | 6                 | 1.1       | 12   |                  |

| AT    |             |                             |       |             |                   |           |      | Autotest -T5 |
|-------|-------------|-----------------------------|-------|-------------|-------------------|-----------|------|--------------|
| W     | Order code  | Description                 | Model | Battery     | Absorption max. W | Weight kg | Pack |              |
| 14÷80 | <b>9056</b> | ELETT 935 AT 14-80 SA T5    | SA    | NiCd 6V 4Ah | 7                 | 1.2       | 12   |              |
| 14÷80 | <b>9057</b> | ELETT 935 AT 14-80 SA/RM T5 | SA RM | NiCd 6V 4Ah | 7                 | 1.4       | 12   |              |

| TR    |             |                     |       |                 |                   |           |      | Traditional T8 |
|-------|-------------|---------------------|-------|-----------------|-------------------|-----------|------|----------------|
| W     | Order code  | Description         | Model | Battery         | Absorption max. W | Weight kg | Pack |                |
| 18÷36 | <b>2565</b> | 933/18-36SE1        | SE    | NiCd 3.6V 1.8Ah | 7                 | 0.6       | 12   |                |
| 18÷40 | <b>2549</b> | 933.2/SE            | SE    | NiCd 6V 2Ah     | 7                 | 0.7       | 12   |                |
| 18÷58 | <b>2553</b> | 933/18-58SE1        | SE    | NiCd 3.6V 4Ah   | 7                 | 0.8       | 12   |                |
| 18÷65 | <b>2551</b> | 933.4/SE            | SE    | NiCd 6V 4Ah     | 7                 | 1.0       | 12   |                |
| 18÷36 | <b>8376</b> | 834/18-36 4.8 SA    | SA    | NiCd 4.8V 1.7Ah | 5                 | 0.5       | 12   |                |
| 18÷36 | <b>2567</b> | 933/18-36SA1        | SA    | NiCd 3.6V 1.8Ah | 7                 | 0.6       | 12   |                |
| 18÷36 | <b>3526</b> | 833/18-36/SA1       | SA    | NiCd 3.6V 1.8Ah | 7                 | 0.6       | 12   |                |
| 18÷40 | <b>2540</b> | 933.2/SA            | SA    | NiCd 6V 2Ah     | 7                 | 0.7       | 12   |                |
| 18÷58 | <b>8348</b> | 834/18-58 4.8 SA    | SA    | NiCd 4.8V 2.0Ah | 5                 | 0.5       | 12   |                |
| 18÷58 | <b>2544</b> | 933/18-58SA1        | SA    | NiCd 3.6V 4Ah   | 7                 | 0.8       | 12   |                |
| 18÷58 | <b>3527</b> | 833/18-58/SA1       | SA    | NiCd 3.6V 4Ah   | 7                 | 0.8       | 12   |                |
| 18÷65 | <b>2542</b> | 933.4/SA            | SA    | NiCd 6V 4Ah     | 7                 | 1.0       | 12   |                |
| 36÷58 | <b>2561</b> | 933.7/SA            | SA    | NiCd 6V 7Ah     | 11                | 1.5       | 6    |                |
| 18÷36 | <b>2566</b> | 933/18-36SE1 RM     | SE RM | NiCd 3.6V 1.8Ah | 7                 | 0.6       | 12   |                |
| 18÷40 | <b>2550</b> | 933.2/SE RM         | SE RM | NiCd 6V 2Ah     | 7                 | 0.8       | 12   |                |
| 18÷58 | <b>2554</b> | 933/18-58SE1 RM     | SE RM | NiCd 3.6V 4Ah   | 7                 | 0.8       | 12   |                |
| 18÷65 | <b>2552</b> | 933.4/SE RM         | SE RM | NiCd 6V 4Ah     | 7                 | 1.1       | 12   |                |
| 18÷36 | <b>2568</b> | 933/18-36SA1RM      | SA RM | NiCd 3.6V 1.8Ah | 7                 | 0.6       | 12   |                |
| 18÷40 | <b>2541</b> | 933.2/SA RM         | SA RM | NiCd 6V 2Ah     | 7                 | 0.8       | 12   |                |
| 18÷58 | <b>8349</b> | 834/18-58 4.8 SA RM | SA RM | NiCd 4.8V 2.0Ah | 5                 | 0.5       | 12   |                |
| 18÷58 | <b>2545</b> | 933/18-58SA1RM      | SA RM | NiCd 3.6V 4Ah   | 7                 | 0.8       | 12   |                |
| 18÷65 | <b>2543</b> | 933.4/SA RM         | SA RM | NiCd 6V 4Ah     | 7                 | 1.0       | 12   |                |
| 36÷58 | <b>2562</b> | 933.7/SA RM         | SA RM | NiCd 6V 7Ah     | 17                | 1.5       | 6    |                |

| AT    |             |                    |       |             |                   |           |      | Autotest -T8 |
|-------|-------------|--------------------|-------|-------------|-------------------|-----------|------|--------------|
| W     | Order code  | Description        | Model | Battery     | Absorption max. W | Weight kg | Pack |              |
| 18÷58 | <b>2571</b> | 935.4AT 18-58SA    | SA    | NiCd 6V 4Ah | 7                 | 1.2       | 12   |              |
| 18÷58 | <b>2572</b> | 935.4AT 18-58SA/RM | SA RM | NiCd 6V 4Ah | 7                 | 1.2       | 12   |              |







# LED module

Reinventing  
with recessed Inverter  
emergency lighting

The advantages of high-efficiency LED technology combined with precision studies on lens refraction offered the cue for a new concept in emergency lighting. Following these principles, the Inverter with LED Module was born, a miniaturized emergency fixture equipped with a series of accessories that allow it to be fitted on normal fixtures for traditional lighting. The great power of the light beam is intercepted by a series of lenses with controlled refraction that are able to shape the same number of multifunctional light beams.



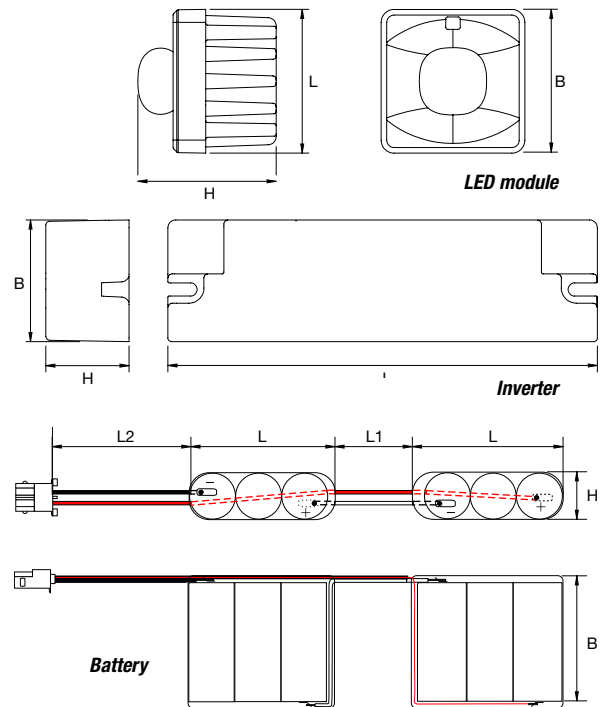
# LED emergency module

with recessed Inverter

A high-performance auxiliary fixture for emergency lighting. Operation is subject to the installation of a traditional lighting fixture where the LED module and relative inverter with battery set are installed. The kit has 3 special high-transparency PMMA lenses, for the Lungaluce Altaluce and Largaluce versions, to obtain different dimensions of illuminated surface areas, and allow for an installation height from 3 to 7 metres. Each lens has a RAL 9010 white Polycarbonate cover. The LED module has an elastic clip fastening system for T8 and T5 tubes. The high-efficiency LED has a die-cast aluminium heat sink.

## GENERAL CHARACTERISTICS

- Power** 2 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** HT, Permanent (SA)/Non Permanent (SE)/Public performance (PS) selectable with DIP switch in the versions LG and LGFM
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222
- Protection grade** according to the fixture in which it is mounted
- Autonomy** 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions
- Working temp.** 0°C ÷ +40°C
- Mounting** on fixtures with T5 and T8 pipes
- Housing** Aluminium and white Polycarbonate RAL 9010
- Optics** lenses in highly transparent PMMA
- Light source** LED



## Accessories

supplied

| Order code | Description   |
|------------|---|
| -          | <b>3 lenses:</b> LUNGA, LARGA, ALTA with 3 different covers |
| -          | 2 SPRINGS FOR FIXING ON T8 AND T5 PIPES                     |

|                      | Power<br>W | • Dimensions (mm) • |    |    |    |     |
|----------------------|------------|---------------------|----|----|----|-----|
|                      |            | L                   | L1 | L2 | B  | H   |
| LED module with lens | 18÷58      | 35                  |    |    | 35 | 33  |
| Inverter             | -          | 114                 |    |    | 32 | 22  |
| Battery              | -          | 40                  | 70 | 80 | 50 | 4,5 |

\*\* Indicative power for comparison with fluorescent tube fixtures

## AT

Autotest

|  | W | Order code   | Description            | Model | Autonomy | Battery          | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|--|---|--------------|------------------------|-------|----------|------------------|--------|-------------|-------------|--------------|-----------|------|
|  | 2 | <b>19341</b> | MODULE EM LED AT SE 1N | SE    | 1h       | NiCd 7.2V 0.75Ah | 1      | 250         | -           | 1            | 0,2       | 6    |

## LG

Logica

|  | W | Order code   | Description                      | Model    | Autonomy | Battery         | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|--|---|--------------|----------------------------------|----------|----------|-----------------|--------|-------------|-------------|--------------|-----------|------|
|  | 2 | <b>19342</b> | MODULE EM LED LG SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1      | 250/190/165 | 165         | 1/6,5        | 0,2       | 6    |

## LGFM

Logica FM

|  | W | Order code   | Description                        | Model    | Autonomy | Battery         | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|--|---|--------------|------------------------------------|----------|----------|-----------------|--------|-------------|-------------|--------------|-----------|------|
|  | 2 | <b>19343</b> | MODULE EM LED LGFM SE/SA/PS 1/2/3H | SE/SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 1      | 250/190/165 | 165         | 2/7,5        | 0,2       | 6    |



## SLG

| W | Order code | Description       | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|---|------------|-------------------|-------|----------|---------|--------|-------------|-------------|--------------|-----------|------|
| 2 | 17467      | MODULE EM LED SLG | -     | -        | -       | 1      | -           | 250         | 5,5          | 0,2       | 6    |

## HT

Mains voltage power supply (ca 230V 50 Hz - cc 216V)

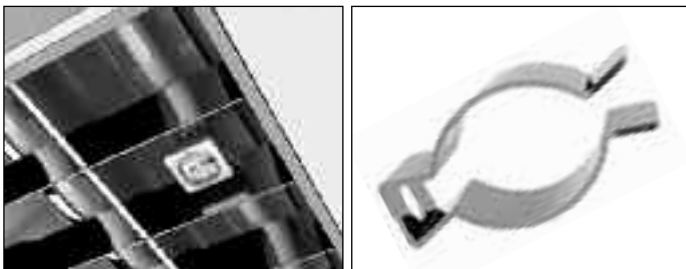
| W | Order code | Description      | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|---|------------|------------------|-------|----------|---------|--------|-------------|-------------|--------------|-----------|------|
| 2 | 19340      | MODULE EM LED HT | -     | -        | -       | 1      | -           | 250         | 5,5          | 0,2       | 6    |

## SICURO 24V

| W | Order code | Description                  | Model | Autonomy | Battery | N° LED | Flux* SE lm | Flux* SA lm | Absorption W | Weight kg | Pack |
|---|------------|------------------------------|-------|----------|---------|--------|-------------|-------------|--------------|-----------|------|
| 2 | 17465      | MODULE EM LED SLGS 24V       | -     | -        | -       | 1      | -           | 250         | 5,5          | 0,2       | 6    |
| 2 | 17874      | MODULE EM LED SLGS 24V LS-UV | -     | -        | -       | 1      | -           | 250         | 5,5          | 0,2       | 6    |

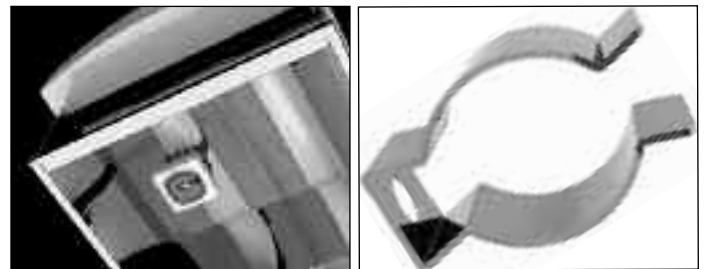
\* Minimum flux guaranteed according to EN 60598-2-22

### MOUNTING ON A FIXTURE WITH T5 LAMP HOLDERS

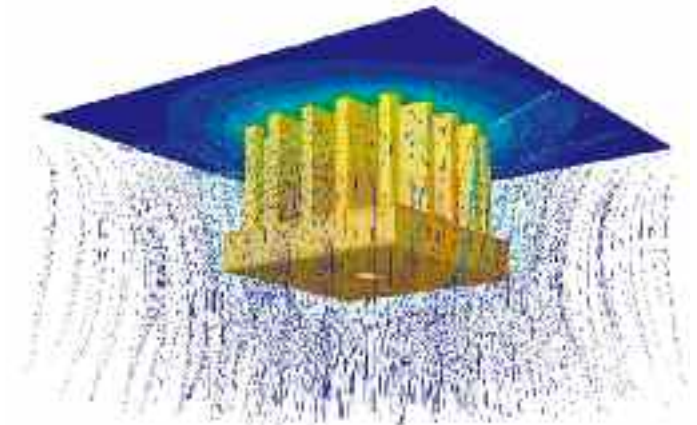


- STEEL CLIP supplied

### MOUNTING ON A FIXTURE WITH T8 LAMP HOLDERS



- STEEL CLIP supplied



### Thermofluidodynamic analysis: calculated heat dissipation

To ensure long duration and high performance of the LED source, a new technology has been used which simulates heat diffusion in the fixture: the thermofluidodynamic analysis allows you to foresee the working temperature of the various components so as to optimize the heat dissipation system.

| LENS         | Lamps | Cover   |
|--------------|-------|---|
| LUNGALUCE 3m | 1     | It covers an escape route of 17.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle                                      |
|              | 2     | Centre distance 18m between the lamps covering an escape route of 35.1 m with 1 lux in the middle and >0.5 lux within 1 m of the middle |
| LARGALUCE 3m | 1     | Covers a surface of 11.3m x 11.3m with at least 0.5lux with the exception of a 0.5 m perimeter  |
|              | 4     | Centre distance 13.2m covering a surface of 24.5m x 24.5m with at least 0.5lux with the exception of a 0.5 m perimeter                  |
| ALTALUCE 7m  | 1     | Covers a surface of 12.4m x 12.4m with at least 0.5lux with the exception of a 0.5 m perimeter  |
|              | 4     | Centre distance 14.4m covering a surface of 26.8m x 26.8m with at least 0.5lux with the exception of a 0.5 m perimeter                  |

# One fixture for several applications



Dedicated inverter supplied

3.5 V  
 700 mA (SE)  
 350 mA (SA)



battery pack



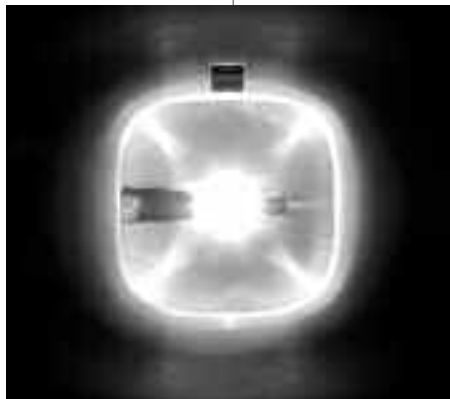
### Lungaluce - long lens

mounted at a height of 3m it covers an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1m



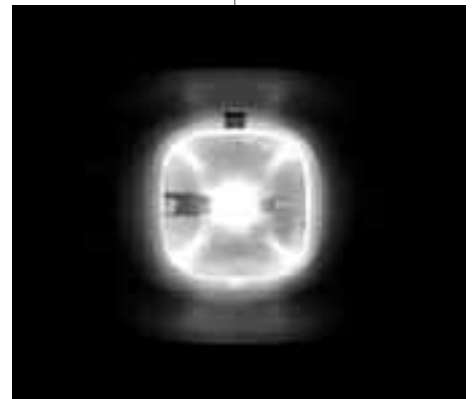
### Largaluce - wide lens

mounted at a height of 3m it illuminates a surface of 11.3x11.3m at 0.5 lux



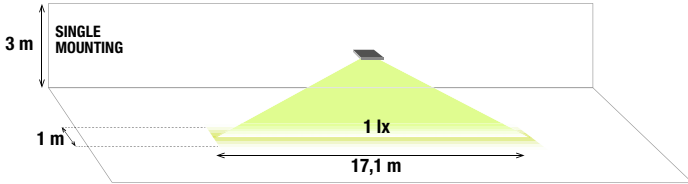
### Altaluce - high lens

mounted at a height of 7m it illuminates a surface of 12.4x12.4m at 0.5 lux



# Technical demonstration of light output on the ground

## Lungaluce - long lens - mounting 3 m above the ground

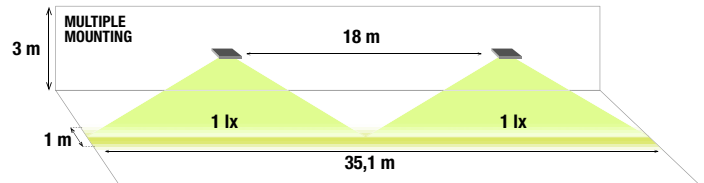


### Single mounting

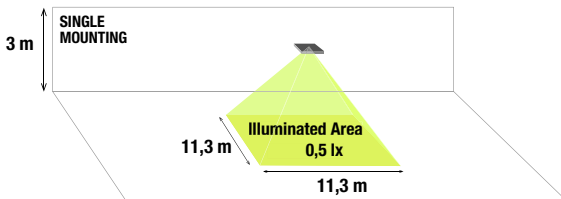
covers an escape route of 17.1 m with 1 lux in the middle and > 0.5 within 1 m

### Multiple mounting, fixture centre distance 18 m

covers an escape route of 35.1 m with 1 lux in the middle and > 0.5 within 1 m



## Largaluce - wide lens - mounting 3 m above the ground

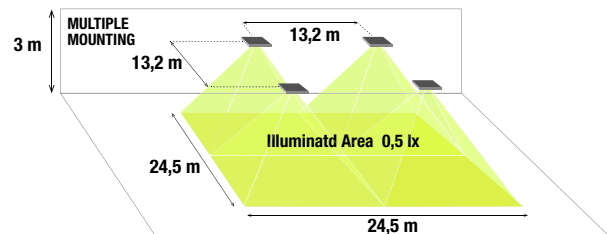


### Single mounting

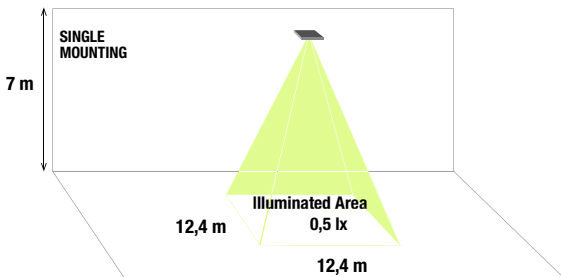
illuminates a surface of 11.3x11.3 m at 0.5 lux (128 sq.m)

### Multiple mounting, fixture centre distance 13.2 m

illuminates a surface of 24.5x24.5 m at 0.5 lux (600 sq.m)



## Altaluce - high lens - mounting 7 m above the ground

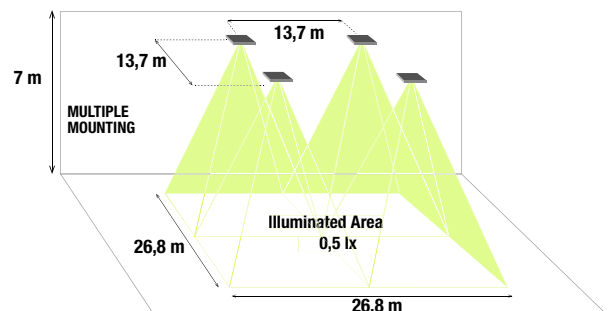


### Single mounting

illuminates a surface of 12.4x12.4 m at 0.5 lux (154 sq.m)

### Multiple mounting, fixture centre distance 13.7 m

illuminates a surface of 26.8x26.8 m at 0.5 lux (718 sq.m)



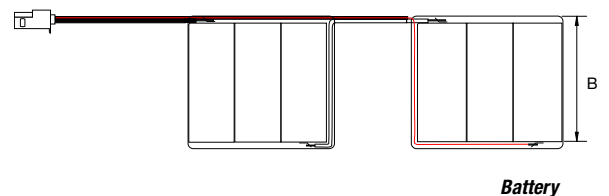
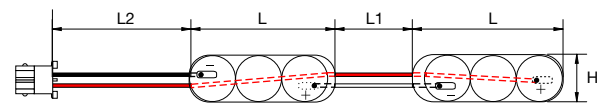
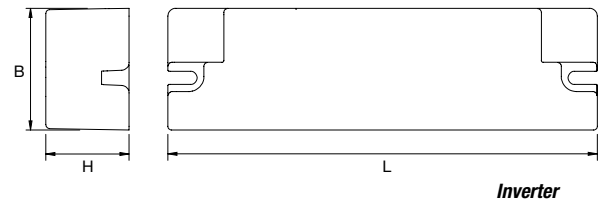
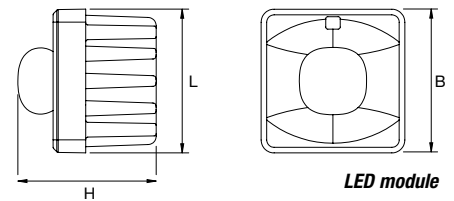
# EcoLED Inverter module



A high-performance auxiliary fixture for emergency lighting. Operation is subject to the installation of a traditional lighting fixture where the LED module and relative inverter with battery set are installed. The kit contains 3 special high-transparency PMMA lenses, for the Lungaluce, Altaluce and Largaluce versions, for obtaining different illuminated surface areas. Can be installed at a height of 3 or 7 metres. The LED module has an elastic clip fastening system for T8 and T5 tubes. The high-efficiency LED features a heat sink in polyamide with graphite, to ensure superb reliability and extend the life of the device.

## GENERAL CHARACTERISTICS

|                         |  |
|-------------------------|--|
| <b>Potenze</b>          | 1,5 W  |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz  |
| <b>Operation</b>        | Permanent (SA), Non Permanent (SE)<br>Rest Mode: with optional control device<br>(cod. 2730) |
| <b>Standard</b>         | EN 60598-1, EN 61347-2-7,<br>EN 60598-2-22, EN 61347-2-13<br>UNI 11222                       |
| <b>Protection grade</b> | according to the fixture in which it is<br>mounted   |
| <b>Autonomy</b>         | 1h   |
| <b>Working temp.</b>    | 0°C ÷ +40°C  |
| <b>Mounting</b>         | on fixtures with T5 and T8 lampholders   |
| <b>Housing</b>          | Graphite-charged polyamide   |
| <b>Optics</b>           | lenses in highly transparent<br>Polycarbonate  |
| <b>Light source</b>     | LED  |



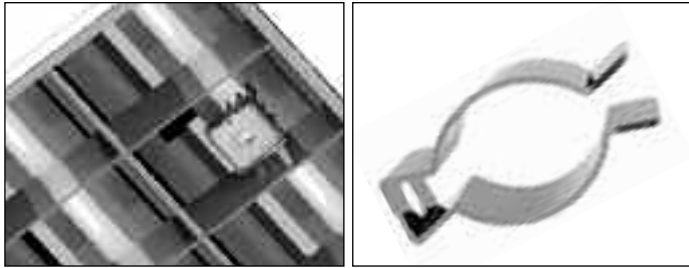
|            | Power<br>W | L   | • Dimensions (mm) • |    |    |      | Lamp  |
|------------|------------|-----|---------------------|----|----|------|-------|
|            |            |     | L1                  | L2 | B  | H    |       |
| Modulo LED | 1,5        | 36  |                     |    | 36 | 28   | 1 LED |
| Inverter   | -          | 114 |                     |    | 32 | 22   | -     |
| Battery    | -          | 40  | 70                  | 80 | 50 | 14,5 | -     |

## Accessories

supplied

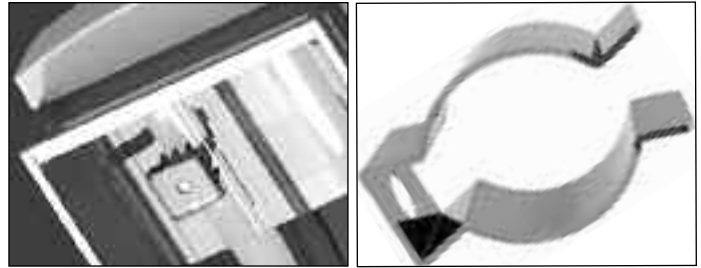
|            |   |
|------------|---|
| Order Code | Description   |
| -          | <b>3 LENSES: LUNGA, LARGA, ALTA</b> with 3 different covers |
| -          | <b>2 SPRINGS FOR FIXING ON T8 AND T5 LAMP HOLDERS</b>       |

**MOUNTING ON A FIXTURE WITH T5 LAMP HOLDERS**



- STEEL CLIP supplied

**MOUNTING ON A FIXTURE WITH T8 LAMP HOLDERS**



- STEEL CLIP supplied

**LENSES SUPPLIED**



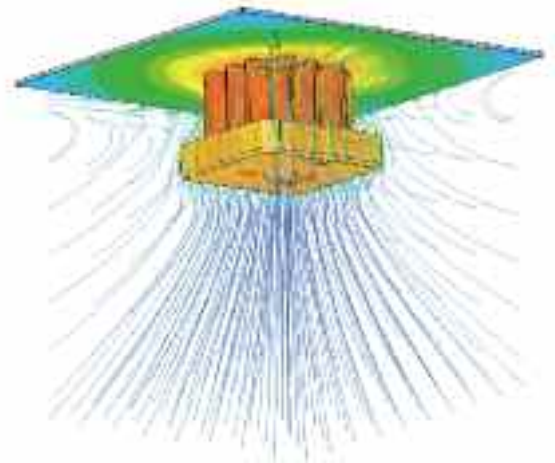
- LUNGALUCE supplied



- LARGALUCE supplied



- ALTALUCE supplied



**Thermofluidodynamic analysis: calculated heat dissipation**

To ensure long duration and high performance of the LED source, a new technology has been used which simulates heat diffusion in the fixture: the thermofluidodynamic analysis allows you to foresee the working temperature of the various components so as to optimize the heat dissipation system.

| TR  |            |                       |       |          |        |                  |                  |           |      | Traditional |
|-----|------------|-----------------------|-------|----------|--------|------------------|------------------|-----------|------|-------------|
| W   | Order code | Description           | Model | Autonomy | N° LED | Battery          | Absorption max W | Weight kg | Pack |             |
| 1,5 | 19350      | INVERTER LED SE 1N RM | SE    | 1h       | 1      | NCHT 3.6V 0.75Ah | 1                | 0,25      | 6    |             |

# One fixture for several applications



Dedicated Inverter supplied

3 V  
500 mA



battery pack



### Lungaluce - long lens

mounted at a height of 3m it covers an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1m



### Largaluce - wide lens

mounted at a height of 3m it illuminates a surface of 8.1x8.1 m at 0.5 lux



### Altaluce - high lens

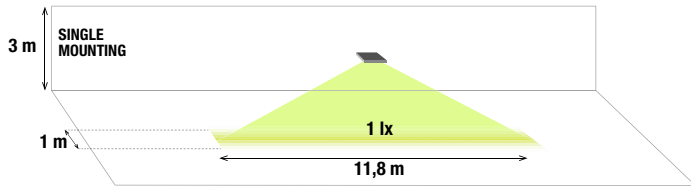
mounted at a height of 7m it illuminates a surface of 9.3x9.3m at 0.5 lux



# Technical demonstration of light output on the ground

according to UNI EN 1838

## Lungaluce - long lens - mounting 3 m above the ground

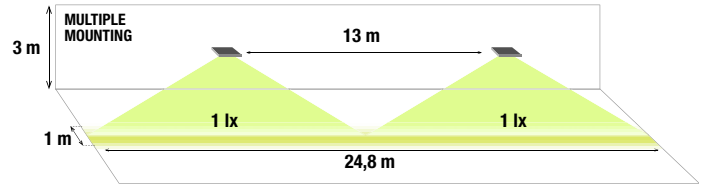


### Single mounting

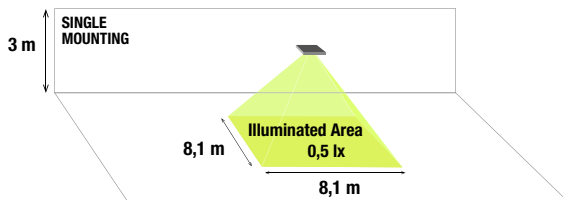
covers an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1 m

### Multiple mounting, fixture centre distance 13 m

covers an escape route of 24.8 m with 1 lux in the middle and > 0.5 within 1 m



## Largaluce - wide lenses - mounting 3 m above the ground

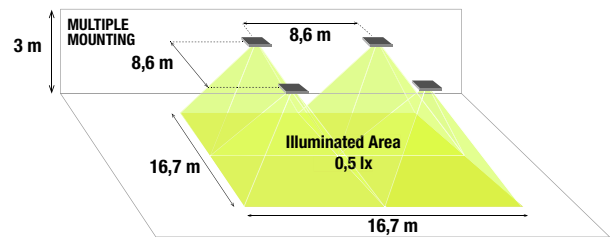


### Single mounting

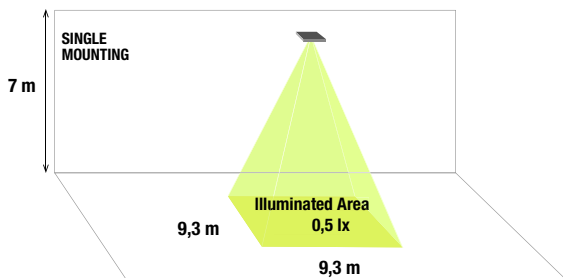
illuminates a surface of 8.1x8.1 m at 0.5 lux

### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



## Altaluce - high lens - mounting 7 m above the ground

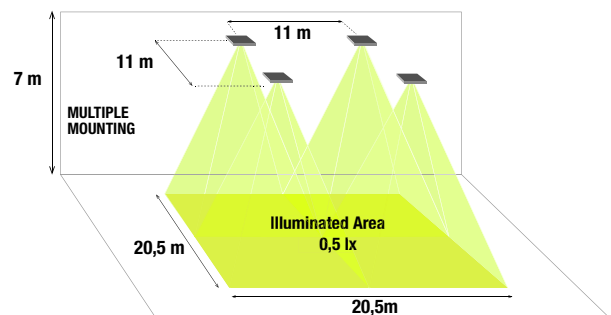


### Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

### Multiple mounting, fixture centre distance 11 m

illuminates a surface of 20.5 x 20.5 m at 0.5 lux







Mounting in conventional lighting fixtures in a transit area with Largaluce lens and in corridors with a Lungaluce lens in a centralized SLGS system. The same fixture in both an anti-panic and an escape route version.





# Scout LED

The leading technology for  
autonomy and luminous flux  
The reference point  
for portable emergency devices

The first incandescent version of the Beghelli Scout has left its mark on the history of portable lighting for critical or emergency situations, and has in fact been selected by a number of safety or rescue organisations. Both within safety-specific environments, general leisure applications and outdoor work settings, the Scout LED has come to be recognised as the leading device for providing light in difficult weather conditions, with very high autonomy. The coloured shields provided, which are stored in a compartment on board the device itself, render the Scout LED indispensable in emergency situations where a hazard needs to be signalled. When used in indoor environments (by plugging it into a standard power outlet), the Scout LED is transformed into a handy emergency lamp.



# Scout led

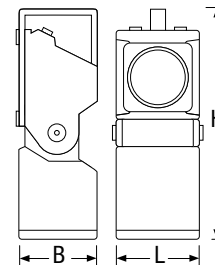
Portable emergency device

Beghelli portable rechargeable anti-blackout lamp, suitable for intensive "outdoor" use.

Equipped with a high-power LED, it provides exceptional light output and excellent autonomy. When connected to the power supply, the lamp switches on automatically in case of power failure.

The head can be tilted forward or backwards, and can be adjusted across 120°. The bottom of the lamp can be opened, and contains the power cord for charging along with 3 coloured diffuser shields.

By pressing the dedicated button, the "flashing" function can be activated on both the main and secondary LEDs.



## GENERAL CHARACTERISTICS

- Power** 2,4W
- Power supply** 230Vac ± 10% 50Hz
- Operation** SE-SA  
(If connected to a power outlet)
- Standard** EN 60598-1, EN 60598-2-4.
- Protection grade** IP40
- Power supply** 220-240V / 50-60 Hz
- Autonomy main LED** after 36h of charge 9.5h  
after 24h of charge 8.5h
- Autonomy secondary LED** after 36h of charge 85h  
after 24h of charge 80h
- Housing** Polycarbonate RAL 2003
- Optics** Symmetrical, metallized
- Louvre** Transparent Polycarbonate
- Light source** LED

| Order code | • Dimensions (mm) • |     |     | Lamp                                    |
|------------|---------------------|-----|-----|---|
|            | L                   | B   | H   |   |
| 8380       | 126                 | 119 | 336 | Main LED (2,4W)<br>Secondary LED (0,2W) |

## Accessories

supplied

| Order code | Description                           |
|------------|---------------------------------------|
| 3913       | SCOUT 3210/TR SHOULDER STRAP          |
| 3728       | TRANSPARENT DIFFUSER SHIELD 3200/SC/B |
| 3729       | RED SHIELD 3200/SC/R                  |

| Order code | Description             |
|------------|-------------------------|
| 3730       | ORANGE SHIELD 3200/SC/A |
| 3731       | GREEN SHIELD 3200/SC/V  |

## Accessories

to be ordered separately

| Order code | Description                 |
|------------|-----------------------------|
| 2750       | WALL FIXING SUPPORT 3220 M  |
| 2729       | DC-AC CONVERTER 12-24V/220V |

| Order code | Description               |
|------------|---------------------------|
| 3726       | 90 SCOUT 4001/SC DIFFUSER |

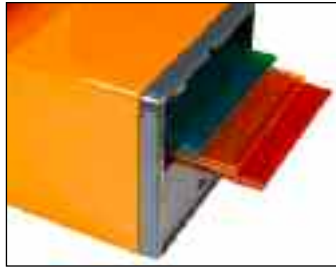
### SHOULDER STRAP



**3913** SHOULDER STRAP

supplied

### SHIELDS



**3728** TRANSPARENT DIFFUSER SHIELD

supplied

**3729** RED SHIELD

supplied

**3730** ORANGE SHIELD

supplied

**3731** GREEN SHIELD

supplied

### ADJUSTABLE HEAD



## TR

| W       | Order code  | Description             | Autonomy | Battery     | Absorption max | Average Flux lm | Weight kg | Pack |
|---------|-------------|-------------------------|----------|-------------|----------------|-----------------|-----------|------|
| 0,2/2,4 | <b>8380</b> | scout led PB 8H ARANCIO | 85h/9.5h | Pd 6V 4.5Ah | 3W             | 23,5/230        | 1.9       | 1    |





SCOUT  
LED





# UP•LED Exit Lite

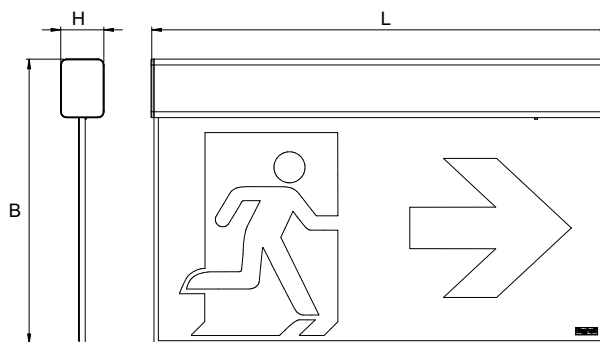
the key word is  
wall, ceiling or suspended  
versatility  
without additional accessories

A range of new exit sign luminaires characterized by functionality and versatility with extremely reduced size and a clean and elegant design thanks to the innovative universal concealed fixing system. The common feature is functional simplicity with respect to both installation and reliability. Includes a fast concealed clamp which can be installed laterally, at the back or on the upper section, to meet all the requirements of a exit sign device in a single product. The luminosity and the uniformity of the pictogram are at the top of the class.



### GENERAL CHARACTERISTICS

- Power** 2W, 3W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, DIN 4844-1
- Protection grade** IP40
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** wall, suspended ceiling, ceiling with stems and cables suspended wall, suspended ceiling, three-phase binary
- Power supply** Electronic control gear with constant current
- Housing** White Polycarbonate, RAL 9003
- Optics** high-efficiency back light system
- Light source** LED



| Power<br>W | Visibility distance (DV)<br>m | • Dimensions (mm) • |     |    |
|------------|-------------------------------|---------------------|-----|----|
|            |                               | L                   | B   | H  |
| 2          | 20                            | 229                 | 155 | 30 |
| 3          | 30                            | 329                 | 205 | 30 |

## Accessories

supplied

| Order code | Description               |
|------------|---------------------------|
| -          | SHIELDS RIGHT, LEFT, DOWN |
| -          | UNIVERSAL CLAMP           |



## Titanium Battery

- 1 QUICK CHARGING:** the autonomy of the device on which it is installed can reach up to 80% in less than 2 hours
- 2 Withstands extreme operating temperatures:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

### Titanium recharging time (max)

|     |        |
|-----|--------|
| 2 W | 45 min |
| 3 W | 90 min |

# UP•LED Exit AT Opticom

## LED Signs

A line of new products for safety signage characterised by superb functionality and versatility, boasting very small dimensions and a clean, elegant design, with innovative retractable universal attachment system. The common denominator which unites the range is the functional simplicity that these devices offer, both in terms of installation and reliability. The design features a quick-connection interlocking bracket which can be installed to the side, rear or top, to satisfy every safety signage requirement with a single device. The brightness and uniformity of the pictogram are at the top of their class.

## Accessories

to be ordered separately

| Order code | Description                           |
|------------|---------------------------------------|
| 4312       | ACCESSORY CEILING RECESS 20m          |
| 4313       | ACCESSORY CEILING RECESS 30m          |
| 4315       | ACCESSORY SUSPENSION WITH STEMS L250  |
| 4316       | ACCESSORY SUSPENSION WITH STEMS L500  |
| 4317       | ACCESSORY SUSPENSION WITH STEMS L1000 |
| 14771      | ACCESSORY SUSPENSION WITH CABLES      |
| 4319       | KIT THREE-PHASE BINARY                |

## System Modules

to be ordered separately

| Order code | Description         |      |
|------------|---------------------|------|
| 15036      | LG MODULE           | LG   |
| 15037      | LGFM MODULE         | LGFM |
| 15038      | DALI OPTICOM MODULE |      |

MODULO  
DALI

MODULO  
LG

MODULO  
LGFM

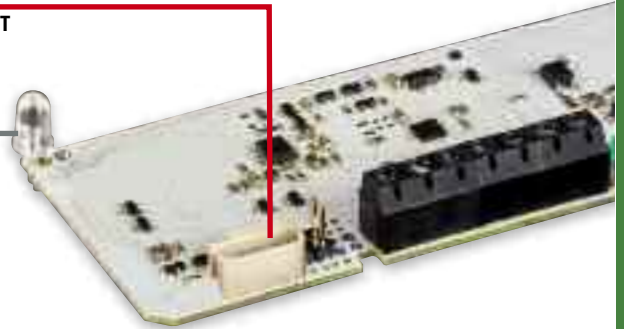
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTSENSOR SUPPLIED

opticom  
TECHNOLOGY

Smartphone interface  
Programming, interrogation and control system



Visibility distance  
VD 20 meters



Visibility distance  
VD 30 meters

The right visibility for every space

The range of signage devices that adapts to spaces of every size, from the warehouse to the office and from industrial to designer structures.

#### CEILING MOUNTING



- UNIVERSAL BRACKET

supplied

#### WALL INSTALLATION



- UNIVERSAL BRACKET

supplied

#### THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately

AT



opticom  
TECHNOLOGY

| W | Order code | Description                    | Model | Autonomy     | Battery           | DV<br>m | N° LED | Absorption<br>max W | Weight<br>kg | Pack |
|---|------------|--------------------------------|-------|--------------|-------------------|---------|--------|---------------------|--------------|------|
| 2 | 4380       | UP LED EXIT AT OPT 20M SA 8LTO | SA    | 1-1,5-2-3-8h | LTO 7.2V 0.5Ah    | 20      | 24     | 7,5                 | 0,3          | 1/6  |
| 3 | 4381       | UP LED EXIT AT OPT 30M SA 8LTO | SA    | 1-1,5-2-3-8h | 2x LTO 7.2V 0.5Ah | 30      | 36     | 7,5                 | 0,5          | 1/6  |

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038

UP-LED  
EXIT



#### GENERAL CHARACTERISTICS

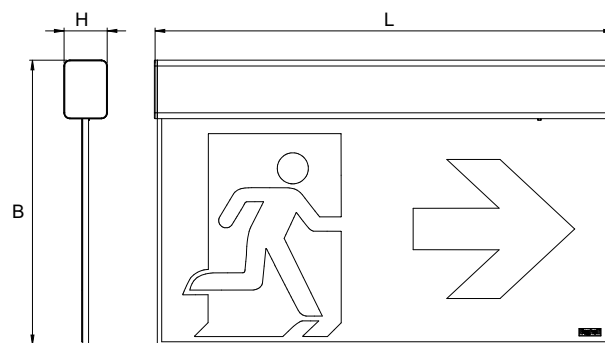
|                         |  |
|-------------------------|--|
| <b>Power</b>            | 2W, 3W, 6W   |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz  |
| <b>Operation</b>        | Permanent (SA), RM   |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-2,<br>EN 60598-2-22, UNI EN 1838,<br>UNI 11222, DIN 4844-1  |
| <b>Protection grade</b> | IP40   |
| <b>Autonomy</b>         | 1h, 2h, 3h   |
| <b>Working temp.</b>    | 0°C ÷ +40°C  |
| <b>Mounting</b>         | wall, suspended ceiling, ceiling with tiges,<br>wall suspended, three-phase binary |
| <b>Power supply</b>     | Electronic control gear with constant<br>current                                   |
| <b>Housing</b>          | White Polycarbonate, RAL 9003  |
| <b>Optics</b>           | high-efficiency back light system  |
| <b>Light source</b>     | LED  |



## UP•LED Exit

### LED Signs

A line of new products for safety signage characterised by superb functionality and versatility, boasting very small dimensions and a clean, elegant design, with innovative retractable universal attachment system. The common denominator which unites the range is the functional simplicity that these devices offer, both in terms of installation and reliability. The design features a quick-connection interlocking bracket which can be installed to the side, rear or top, to satisfy every safety signage requirement with a single device. The brightness and uniformity of the pictogram are at the top of their class.



| Power<br>W | Visibility distance (DV)<br>m | • Dimensions (mm) • |     |    |
|------------|-------------------------------|---------------------|-----|----|
|            |                               | L                   | B   | H  |
| 2          | 20                            | 229                 | 155 | 30 |
| 3          | 30                            | 329                 | 205 | 30 |
| 6          | 60                            | 635                 | 358 | 30 |

### Accessories

supplied

| Order code | Description               |
|------------|---------------------------|
| -          | SHIELDS RIGHT, LEFT, DOWN |
| -          | UNIVERSAL CLAMP           |

### BCS - BATTERY CONTROL SYSTEM

The signaling LED follows the new protocols for conformity to CEI EN 60598-2-22, that expressly requires signaling of battery malfunctioning that in the case of UP•LED is instantly communicated via the appearance of a red light on the multi-color LED signaling system (Battery Control System BCS).

### Accessories

to be ordered separately

| Order code   | Description                                 |
|--------------|---|
| <b>4312</b>  | ACCESSORY CEILING RECESS 20m                |
| <b>4313</b>  | ACCESSORY CEILING RECESS 30m                |
| <b>4315</b>  | ACCESSORY SUSPENSION WITH STEMS L250        |
| <b>4316</b>  | ACCESSORY SUSPENSION WITH STEMS L500        |
| <b>4317</b>  | ACCESSORY SUSPENSION WITH STEMS L1000       |
| <b>14771</b> | ACCESSORY SUSPENSION WITH CABLES            |
| <b>19045</b> | WALL SUSPENDED BRACKET (ONLY FOR 60M MODEL) |
| <b>4319</b>  | THREE-PHASE BINARY KIT                      |



**LED green light:**  
**FULLY-FUNCTIONING DEVICE**



**LED red light:**  
**BATTERY MALFUNCTIONING**



20m model



30m model



60m model

**CEILING MOUNTING**



**WALL MOUNTING**



**Universal concealed connection system:**

The universal concealed bracket can be installed laterally, at the back or on the upper section, encompassing all available installations in one single product.

**WALL MOUNTING**



- UNIVERSAL BRACKET (20/30m model) supplied

**CEILING MOUNTING**



- UNIVERSAL BRACKET (20/30m model) supplied

**WALL MOUNTING**



- UNIVERSAL BRACKET (20/30m model) supplied

**19045** UNIVERSAL BRACKET (60m model) *to be ordered separately*


**THREE-PHASE BINARY MOUNTING**



**4319** THREE-PHASE BINARY KIT *to be ordered separately*

**TR**

| W | Order code  | Description          | Model | Autonomy | Battery           | Visibility distance<br>m | N° LED | Absorption<br>max W | Weight<br>kg | Pack<br>single |
|---|-------------|----------------------|-------|----------|-------------------|--------------------------|--------|---------------------|--------------|----------------|
| 2 | <b>4320</b> | UP LED EXIT DF20M SA | SA    | 1/2/3h   | NiMh 3.6V 750mAh  | 20                       | 24     | 2,5                 | 0,3          | 1/6            |
| 3 | <b>4321</b> | UP LED EXIT DF30M SA | SA    | 1/2/3h   | NiMh 3.6V 1.5Ah   | 30                       | 36     | 3,5                 | 0,5          | 1/6            |
| 6 | <b>4322</b> | UP LED EXIT DF60M SA | SA    | 1/2/3h   | 2xNiMH 3.6V 1,2Ah | 60                       | 72     | 6,5                 | 1            | 1/3            |



### UP•LED EXIT LITE

Suspended installation for a sober and elegant effect. The universal bracket permits wall or ceiling positioning.



### UP•LED MULTI

The device is particularly suitable for complex architectural spaces in which it remains invisible whilst offering perfect lighting







# Indica LED 20

Design and sturdiness for  
Unprecedented uniformity  
multiple applications

The whole line of new products for safety signs is characterised by functionality and aesthetics combined in a single organic form of aluminium and glass. Visually strict and minimal and compact in dimensions, these high tech luminaires offer generous and diffusing brightness in any environmental light situation. The final effect is slender and light, only the extreme uniformity of the sign is amazing, almost defying the laws of technical lighting known up till now.

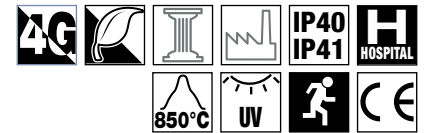
# Indica LED 20m

## LED Signs



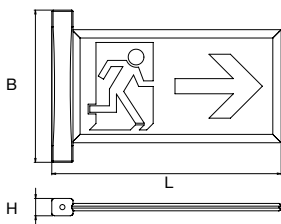
### GENERAL CHARACTERISTICS

|                         |   |
|-------------------------|---|
| <b>Power</b>            | 1-2,1 W   |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz   |
| <b>Operation</b>        | HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, DIN 4844-1                   |
| <b>Protection grade</b> | IP40 single-sided version, IP41 suspended version   |
| <b>Autonomy</b>         | 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions                             |
| <b>Working temp.</b>    | 0°C ÷ +40°C   |
| <b>Mounting</b>         | wall, suspended ceiling, ceiling with rods, suspended on wall                                 |
| <b>Housing</b>          | Aluminium frame and bracket in Polycarbonate RAL 7035   |
| <b>Optics</b>           | high-efficiency back light system   |
| <b>Light source</b>     | LED   |



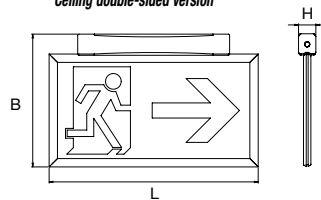
Indica LED is the design solution for sign lighting, with a high technological content for all types of applications. A back light system is used and, thanks to a patented optical system, it guarantees maximum uniformity of sign illumination with excellent luminosity. The fixture is also particularly versatile because it has a universal bracket that can be fitted either on the long side, for mounting on the ceiling, or on the long side for suspended applications on the wall. A single-sided version is also available for above-door installations. All Indica LED products have silk-screen printed opaline Polycarbonate diffusers for easier installation and to guarantee a very high sign illuminance uniformity (over 500cd/sq.m) on the white part.

Wall double-sided version



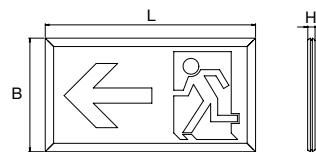
| DV | L   | B   | H  |
|----|-----|-----|----|
| 20 | 266 | 252 | 36 |

Ceiling double-sided version



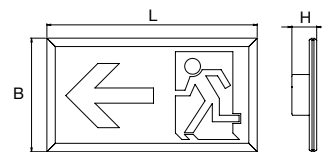
| DV | L   | B   | H  |
|----|-----|-----|----|
| 20 | 235 | 166 | 36 |

Recessed single-sided version



| DV | L   | B   | H  |
|----|-----|-----|----|
| 20 | 235 | 135 | 15 |

Wall single-sided version



| DV | L   | B   | H  |
|----|-----|-----|----|
| 20 | 235 | 135 | 38 |

## Accessories

supplied

| Order code | Description              |
|------------|--------------------------|
| -          | DIFFUSER RIGHT/LEFT/DOWN |

## Accessories

to be ordered separately

| Order code | Description                            |
|------------|--|
| 19380      | TIGES 250MM INDICA DF                  |
| 19381      | TIGES 500MM INDICA DF                  |
| 19382      | TIGES 1000MM INDICA DF                 |
| 19383      | WIRE SUSPENSION 2MT INDICA DF          |
| 19384      | SUSPENDED CEILING RECESSED BRACKET 20M |

## WALL MOUNTING



## MOUNTING ON CEILING



## SUSPENDED CANTILEVERED MOUNTING



**19383** WIRE SUSPENSION MAX 100 *to be ordered separately*

## CANTILEVERED MOUNTING ON CEILING WITH TIGES



**19380** RODS 250MM INDICA DF *to be ordered separately*

**19381** RODS 500MM INDICA DF

**19382** RODS 1000MM INDICA DF

## RECESSED MOUNTING INTO SUSPENDED CEILING



Recess hole: 297x43 mm

**19384** RECESS BRACKET FOR SUSPENDED CEILING 20 m *to be ordered separately*

**Double-sided version**

| AT  |              |                            |       |          |                 |        |              |           |      | Autotest |
|-----|--------------|----------------------------|-------|----------|-----------------|--------|--------------|-----------|------|----------|
| W   | Order code   | Description                | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |          |
| 2,1 | <b>19303</b> | INDICA LED DF20M AT SA 1/H | SA    | 1/h      | NiMh 7,2V 0,6Ah | 32     | 3,5          | 0,52      | 6    |          |

| LG  |              |                                  |       |          |                 |        |              |           |      | Logica |
|-----|--------------|----------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|--------|
| W   | Order code   | Description                      | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |        |
| 2,1 | <b>19305</b> | INDICA LED DF20M LG SA/PS 1/2/3H | SA/PS | 1/2/3h   | NiMh 7,2V 0,6Ah | 32     | 3,5          | 0,52      | 6    |        |

| LGFM |              |                                    |       |          |                 |        |              |           |      | Logica FM |
|------|--------------|------------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|-----------|
| W    | Order code   | Description                        | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |           |
| 2,1  | <b>19307</b> | INDICA LED DF20M LGFM SA/PS 1/2/3H | SA/PS | 1/2/3h   | NiMh 7,2V 0,6Ah | 32     | 3,5          | 0,52      | 6    |           |

| SLG |              |                      |       |          |         |        |              |           |      |
|-----|--------------|----------------------|-------|----------|---------|--------|--------------|-----------|------|
| W   | Order code   | Description          | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
| 2,1 | <b>17461</b> | INDICA LED DF20M SLG | -     | -        | -       | 32     | 3            | 0,52      | 6    |

| SICURO 24V |              |                           |       |          |         |        |              |           |      |
|------------|--------------|---------------------------|-------|----------|---------|--------|--------------|-----------|------|
| W          | Order code   | Description               | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
| 2,1        | <b>17495</b> | INDICA LED DF20M SLGS 24V | -     | -        | -       | 32     | 3            | 0,52      | 6    |

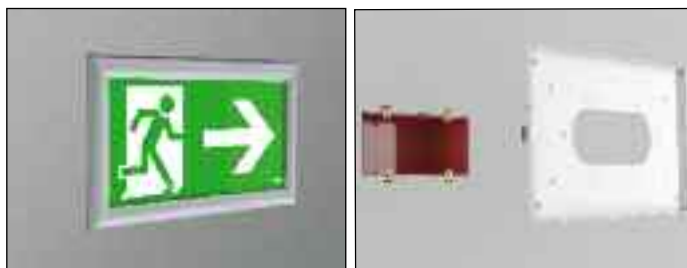
| HT  |              |                     |       |          |         |        |              |           |      | Mains voltage power supply (ca 230V 50 Hz - cc 216V) |
|-----|--------------|---------------------|-------|----------|---------|--------|--------------|-----------|------|--|
| W   | Order code   | Description         | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |  |
| 2,1 | <b>19301</b> | INDICA LED DF20M HT | -     | -        | -       | 32     | 3            | 0,52      | 6    |  |

\* Minimum flux guaranteed according to EN 60598-2-22

## WALL MOUNTING



## RECESSED WALL MOUNTING ON BOX 506



- ADAPTER FOR BOXES 506

supplied

**Single-side version** IP40

## AT Autotest

| W | Order code   | Description               | Model | Autonomy | Battery          | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|---------------------------|-------|----------|------------------|--------|--------------|-----------|------|
| 1 | <b>19313</b> | INDICA LED SF20M AT SA 1N | SA    | 1h       | NiCd 7.2V 0.75Ah | 16     | 2,6          | 0,65      | 6    |

## LG Logica

| W | Order code   | Description                     | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|---------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 1 | <b>19315</b> | INDICA LED SF20M LG SAPS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 16     | 2,6          | 0,65      | 6    |

## LGFM Logica FM

| W | Order code   | Description                       | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|-----------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 1 | <b>19317</b> | INDICA LED SF20M LGFM SAPS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7.2V 1.2Ah | 16     | 2,6          | 0,65      | 6    |

## SLG

| W | Order code   | Description          | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|----------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1 | <b>17463</b> | INDICA LED SF20M SLG | -     | -        | -       | 16     | 2            | 0,65      | 6    |

## SICURO 24V

| W | Order code   | Description               | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|---------------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1 | <b>17497</b> | INDICA LED SF20M SLGS 24V | -     | -        | -       | 16     | 2            | 0,65      | 6    |

## HT Mains voltage power supply (ca 230V 50 Hz - cc 216V)

| W | Order code   | Description         | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|---|--------------|---------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1 | <b>19311</b> | INDICA LED SF20M HT | -     | -        | -       | 16     | 2            | 0,65      | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22

## QUICK CONNECTION BRACKET FOR MAXIMUM MOUNTING VERSATILITY

The frame, in extruded aluminium, has been designed as a fixing track. This particular conformation, as well as making the Indica LED more sturdy and rigid, allows the fixing bracket to be applied on all sides of the fixture.

The Polycarbonate diffusers can be removed without the aid of special tools. Simplicity, versatility and sturdiness are the basic principles of the Indica LED project. All of this is achieved with unprecedented luminosity of the sign.



Bracket position for mounting on the ceiling



Bracket position for suspended mounting on the left



Bracket position for suspended mounting on the right

# Indica LED 30m

## LED Signs



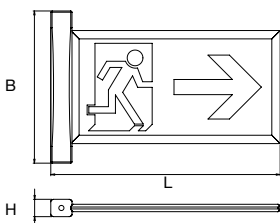
### GENERAL CHARACTERISTICS

- Power** 1,6-3,2 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, DIN 4844-1
- Protection grade** IP40 single-sided version, IP41 suspended version
- Autonomy** 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, suspended ceiling, ceiling with rods, suspended on wall
- Housing** Aluminium frame and Polycarbonate bracket RAL 7035
- Optics** high-efficiency back light system
- Light source** LED



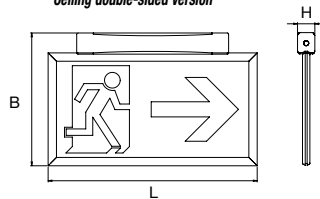
Indica LED is the design solution for sign lighting, with a high technological content for all types of applications. A back light system is used and, thanks to a patented optical system, it guarantees maximum uniformity of sign illumination with excellent luminosity. The fixture is also particularly versatile because it has a universal bracket that can be fitted either on the long side, for mounting on the ceiling, or on the long side for suspended applications on the wall. A single-sided version is also available for above-door installations. All Indica LED products have silk-screen printed opaline Polycarbonate diffusers for easier installation and to guarantee a very high sign illuminance uniformity (over 500cd/sq.m) on the white part.

Wall double-sided version



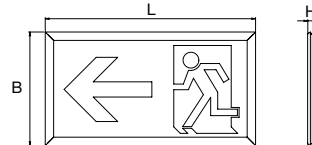
| DV | L   | B   | H  |
|----|-----|-----|----|
| 30 | 366 | 252 | 36 |

Ceiling double-sided version



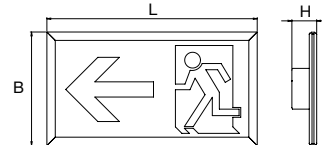
| DV | L   | B   | H  |
|----|-----|-----|----|
| 30 | 335 | 216 | 36 |

Recessed single-sided version



| DV | L   | B   | H  |
|----|-----|-----|----|
| 30 | 335 | 185 | 15 |

Wall single-sided version



| DV | L   | B   | H  |
|----|-----|-----|----|
| 30 | 335 | 185 | 38 |

## Accessories

supplied

| Order code | Description       |
|------------|-------------------|
| -          | DIFFUSER R/L/DOWN |

## Accessories

to be ordered separately

| Order code | Description                                |
|------------|--|
| 19380      | RODS 250MM INDICA DF                       |
| 19381      | RODS 500MM INDICA DF                       |
| 19382      | RODS 1000MM INDICA DF                      |
| 19383      | WIRE SUSPENSION 2MT INDICA DF              |
| 19386      | RECESSED BRACKET FOR SUSPENDED CEILING 30M |

### SUSPENDED WALL MOUNTING



### SUSPENDED MOUNTING ON CEILING



### SUSPENDED SUSPENDED MOUNTING



### SUSPENDED MOUNTING ON CEILING WITH RODS



**19383** WIRE SUSPENSION max 100 *to be ordered separately*

**19380** RODS 250MM INDICA DF *to be ordered separately*

### RECESSED SUSPENDED MOUNTING ON SUSPENDED CEILING



**19381** RODS 500MM INDICA DF

**19382** RODS 1000MM INDICA DF

**19386** SUSPENDED CEILING RECESSED BRACKET 30 m *to be ordered separately*

**Double-sided version**  IP41

## AT Autotest

| W   | Order code   | Description               | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 3,2 | <b>19302</b> | INDICA LED DF30M AT SA 1H | SA    | 1h       | NiMH 7,2V 0,6Ah | 48     | 4,2          | 0,8       | 6    |

## LG Logica

| W   | Order code   | Description                      | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|----------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 3,2 | <b>19304</b> | INDICA LED DF30M LG SA/PS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7,2V 0,6Ah | 48     | 4,2          | 0,8       | 6    |

## LGFM Logica FM

| W   | Order code   | Description                        | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|------------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 3,2 | <b>19306</b> | INDICA LED DF30M LGFM SA/PS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7,2V 0,6Ah | 48     | 4,2          | 0,8       | 6    |

## SLG

| W   | Order code   | Description          | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|----------------------|-------|----------|---------|--------|--------------|-----------|------|
| 3,2 | <b>17460</b> | INDICA LED DF30M SLG | -     | -        | -       | 48     | 3,7          | 0,8       | 6    |

## SICURO 24V

| W   | Order code   | Description               | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------------|-------|----------|---------|--------|--------------|-----------|------|
| 3,2 | <b>17494</b> | INDICA LED DF30M SLGS 24V | -     | -        | -       | 48     | 3,7          | 0,8       | 6    |

## HT Mains voltage power supply (ca 230V 50 Hz - cc 216V)

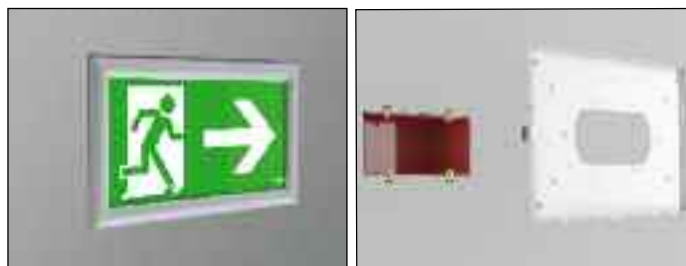
| W   | Order code   | Description         | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------|-------|----------|---------|--------|--------------|-----------|------|
| 3,2 | <b>19300</b> | INDICA LED DF30M HT | -     | -        | -       | 48     | 3,7          | 0,8       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22

### WALL MOUNTING



### RECESSED WALL MOUNTING ON BOX 506



- ADAPTER FOR BOXES 506

supplied

## Single-sided version IP40

### AT Autotest

| W   | Order code   | Description               | Model | Autonomy | Battery          | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------------|-------|----------|------------------|--------|--------------|-----------|------|
| 1,6 | <b>19312</b> | INDICA LED SF30M AT SA 1N | SA    | 1h       | NiCd 7,2V 0,75Ah | 24     | 3            | 1,1       | 6    |

### LG Logica

| W   | Order code   | Description                     | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 1,6 | <b>19314</b> | INDICA LED SF30M LG SAPS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7,2V 1.2Ah | 24     | 3            | 1,1       | 6    |

### LGFM Logica FM

| W   | Order code   | Description                       | Model | Autonomy | Battery         | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|-----------------------------------|-------|----------|-----------------|--------|--------------|-----------|------|
| 1,6 | <b>19316</b> | INDICA LED SF30M LGFM SAPS 1/2/3H | SA/PS | 1/2/3h   | NiMH 7,2V 1.2Ah | 24     | 3            | 1,1       | 6    |

### SLG

| W   | Order code   | Description          | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|----------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1,6 | <b>17462</b> | INDICA LED SF30M SLG | -     | -        | -       | 24     | 2,5          | 1,1       | 6    |

### SICURO 24V

| W   | Order code   | Description               | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1,6 | <b>17496</b> | INDICA LED SF30M SLGS 24V | -     | -        | -       | 24     | 2,5          | 1,1       | 6    |

### HT Mains voltage power supply (ca 230V 50 Hz - cc 216V)

| W   | Order code   | Description         | Model | Autonomy | Battery | N° LED | Absorption W | Weight kg | Pack |
|-----|--------------|---------------------|-------|----------|---------|--------|--------------|-----------|------|
| 1,6 | <b>19310</b> | INDICA LED SF30M HT | -     | -        | -       | 24     | 2,5          | 1,1       | 6    |

\* Minimum flux guaranteed according to EN 60598-2-22



## QUICK CONNECTION BRACKET FOR MAXIMUM MOUNTING VERSATILITY

The frame, in extruded aluminium, has been designed as a fixing track. This particular conformation, as well as making the Indica LED more sturdy and rigid, allows the fixing bracket to be applied on all sides of the fixture.

The Polycarbonate diffusers can be removed without the aid of special tools. Simplicity, versatility and sturdiness are the basic principles of the Indica LED project. All of this is achieved with unprecedented luminosity of the sign.



Bracket position for mounting on the ceiling

Bracket position for suspended mounting on the left



Bracket position for suspended mounting on the right







# Plexilite LED

Totally recessed  
Hi-Tech Design  
body

Device specifically designed for installation on plasterboard, in architectural environments where design and aesthetic are needed, thus maintaining priority in safety and security. The PlexiLite is narrow blade of pure methacrylate, without any kind of frame. The device housing remains totally embedded in the suspended ceiling, where an optical unit capable of producing a blade of high-intensity light is hidden; the effect results in constant mirroring of the light on the screen. The design of the PlexiLite is focused on providing uniform lighting of the signage with a "zero impact" aesthetic and easy installation.



# PlexiLite LED

## LED Signs

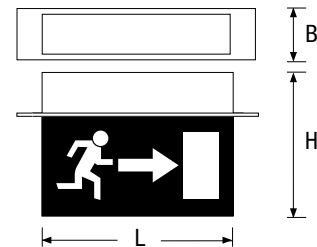
Installation on recessed and suspended ceiling recessed with bracket.  
EN 60598-1, EN 60598-2-22, EN 60598-2-2, UNI-EN 1838.



### GENERAL CHARACTERISTICS

- Power\*** 8 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Permanent (SA), Non permanent (SE)  
Rest Mode (RM)
- Standard** EN 60598-1, EN 60598-2-22,  
UNI EN 1838, EN 60598-2-2, UNI 11222
- Protection grade** IP40
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** recessed on suspended ceiling
- Housing** steel sheet
- Louvre** high transparency tempered glass
- Optics** high-efficiency back light system
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



| Power*<br>W | • Dimensions (mm) • |    |     | Recess<br>hole | Vd<br>suspended | Lamp |
|-------------|---------------------|----|-----|----------------|-----------------|------|
|             | L                   | B  | H   |                |                 |      |
| 8           | 390                 | 70 | 280 | 360x72         | 28 m            | LED  |

\* Indicative power for comparison with fluorescent tube fixtures

## Accessories

supplied

| Order code   | Description                      | Order code   | Description             |
|--------------|----------------------------------|--------------|-------------------------|
| -            | SUSPENDED CEILING FIXING BRACKET | <b>12083</b> | DIFFUSER 535 RIGHT LEFT |
| <b>12082</b> | DIFFUSER 535 DOWN                |              |                         |

## SUSPENDED CEILING MOUNTING



SUSPENDED CEILING BRACKET

supplied

## LG

Logica

|   | W* | Order code     | Description                    | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|---|----|----------------|--------------------------------|-------|----------|--------|-----------------|-------------------|-----------|------|
| H | 8  | <b>11190</b>   | PX.LT LG LED PS-SA 1-3NDX/LEFT | SE    | 1-3h     | 32     | NiCd 7.2V 1.7Ah | 6                 | 3.2       | 1    |
| H | 8  | <b>11192 *</b> | PX.LT LG LED PS-SA 1-3N DOWN   | SE    | 1-3h     | 32     | NiCd 7.2V 1.7Ah | 6                 | 3.2       | 1    |

\* The product with the pictogram featuring the downward-pointing arrow is single-sided

## LGFM

Logica FM

|   | W* | Order code     | Description                      | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|---|----|----------------|----------------------------------|-------|----------|--------|-----------------|-------------------|-----------|------|
| H | 8  | <b>11191</b>   | PX.LT LGFM LED PS-SA 1-3NDX/LEFT | SE    | 1-3h     | 32     | NiCd 7.2V 1.7Ah | 6                 | 3.8       | 1    |
| H | 8  | <b>11193 *</b> | PX.LT LGFM LED PS-SA 1-3N BAS    | SE    | 1-3h     | 32     | NiCd 7.2V 1.7Ah | 6                 | 3.8       | 1    |

\* The product with the pictogram featuring the downward-pointing arrow is single-sided

## SLG

|  | W* | Order code     | Description                | Model | Autonomy | N° LED | Flux SE lm | Flux SA lm | Absorption max. W | Weight kg | Pack |
|--|----|----------------|----------------------------|-------|----------|--------|------------|------------|-------------------|-----------|------|
|  | 8  | <b>17352</b>   | PX.LITE SLG LED RIGHT/LEFT | -     | -        | 32     | 385        | -          | -                 | 2.9       | 1    |
|  | 8  | <b>17353 *</b> | PX.LITE SLG LED DOWN       | -     | -        | 32     | 385        | -          | -                 | 2.9       | 1    |

\* The product with the pictogram featuring the downward-pointing arrow is single-sided

## HT

Mains voltage power supply (ca 230V 50 Hz - cc 216V)

|  | W* | Order code     | Description               | Model | Autonomy | N° LED | Flux SE lm | Flux SA lm | Absorption max. W | Weight kg | Pack |
|--|----|----------------|---------------------------|-------|----------|--------|------------|------------|-------------------|-----------|------|
|  | 8  | <b>17445</b>   | PX.LITE HT LED RIGHT/LEFT | -     | -        | 32     | -          | 385        | -                 | 2.9       | 1    |
|  | 8  | <b>17446 *</b> | PX.LITE HT LED DOWN       | -     | -        | 32     | -          | 385        | -                 | 2.9       | 1    |

\* The product with the pictogram featuring the downward-pointing arrow is single-sided



The elegance of this device renders it particularly suitable in prestigious commercial settings. This device is designed exclusively for recessed use, in environments where the ceilings are also used to house other technologies such as cable radio, air conditioning and lighting.







# Maxima LED

When visibility distance  
The simplicity of strength  
is paramount



This range of lighting devices for signage is characterised by its clean, simple construction, echoed through ease of installation.. The generous dimensions of this product enable excellent long-distance visibility, which, when combined with the IP54-grade protection rating, make the Maxima LED particularly suitable for industrial environments and garages. The simple, minimalist appearance of the device hides a hi-tech optical system, ensuring bright, uniform illumination of the pictogram.



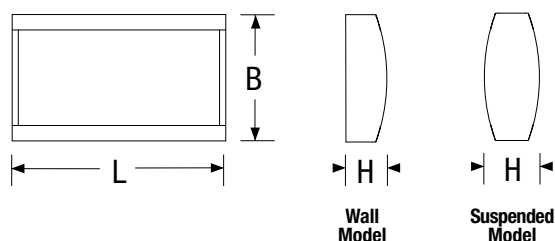
#### GENERAL CHARACTERISTICS

|                         |   |
|-------------------------|---|
| <b>Power</b>            | 2 W   |
| <b>Power supply</b>     | 230Vac ± 10% 50Hz                             |
| <b>Operation</b>        | Permanent (SA), Non permanent (SE), HT        |
| <b>Standard</b>         | EN 60598-1, EN 60598-2-22,<br>UNI EN 1838     |
| <b>Protection grade</b> | IP54  |
| <b>Autonomy</b>         | 1h, 3h  |
| <b>Working temp.</b>    | 0°C ÷ +40°C                                   |
| <b>Mounting</b>         | wall, suspension, electric rail,<br>suspended |
| <b>Housing</b>          | white Polycarbonate                           |
| <b>Louvre</b>           | Transparent Polycarbonate                     |
| <b>Light source</b>     | LED   |

## Maxima LED

### LED Signs

A professional lighting device for emergency signage and escape route illumination, with high long-distance visibility (in excess of 34 metres) in accordance with UNI EN 1838. Excellent levels of luminance and uniformity with regard to the pictogram, quick release connection bracket and easy light source replacement system. Polycarbonate body with high mechanical strength bracket made from fibreglass-reinforced nylon. Available in single-sided wall mounted version and dual-sided flag mounted version - both models are equipped with a light diffuser with beam directed downwards for lighting escape routes. Two types of light source are available: T5 fluorescent tube or 2 high-efficiency LEDs (1W) with a useful life of up to 100,000 hrs.



| Power<br>W | • Dimensions (mm) • |     |      | VD<br>suspended | Lamp | Model     |
|------------|---------------------|-----|------|-----------------|------|-----------|
|            | L                   | B   | H    |                 |      |           |
| 2          | 390                 | 227 | 79,3 | 35 m            | LED  | wall      |
| 2          | 390                 | 227 | 90   | 35 m            | LED  | suspended |

## Accessories

supplied

| Order code  | Description                         |
|-------------|-------------------------------------|
| <b>8462</b> | ADES DOUBLE SIDED LEFT, RIGHT, DOWN |

## Accessories

to be ordered separately

| Order code  | Description              |
|-------------|--------------------------|
| <b>3723</b> | SUSPENSION HOOKS 4004 PR |

### SUSPENSION MOUNTING



**3723** SUSPENSION HOOKS 4004 PR

to be ordered separately

## ELECTRIC RAIL MOUNTING



**3723** SUSPENSION HOOKS

to be ordered separately

## SUSPENDED MUONTING



**12170** SUSPENDED BRACKET

supplied

## Double-sided model

### LG

Logica

|          | W | Order code   | Description              | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|--------------|--------------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>12163</b> | MAXIMA B LG 2LED SA 1-3H | LED  | SE-SA | 1h-3h    | 2      | NiCd 7.2V 1.7Ah | 7,5               | 1.2       | 1    |

### LGFM

Logica FM

|          | W | Order code     | Description                | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|----------------|----------------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>12163FM</b> | MAXIMA B LGFM 2LED SA 1-3H | LED  | SE-SA | 1h-3h    | 2      | NiCd 7.2V 1.7Ah | 7,5               | 1.2       | 1    |

### SLG

|          | W | Order code   | Description       | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|--------------|-------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>17363</b> | Maxima B SLG 2LED | LED  | -     | -        | 2      | NiCd 7.2V 1.7Ah | 7,5/3,5           | 1.0       | 1    |

### HT

Mains voltage power supply (ca 230V 50 Hz - cc 216)

|  | W | Order code   | Description      | lamp | Autonomy | N° LED | Absorption max. W | Weight kg | Pack |
|--|---|--------------|------------------|------|----------|--------|-------------------|-----------|------|
|  | 2 | <b>17443</b> | MAXIMA B 2LED HT | LED  | wall     | 2      | -                 | 1.0       | 1    |

## Single-sided model

### LG

Logica

|          | W | Order code   | Description              | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|--------------|--------------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>12162</b> | MAXIMA M LG 2LED SA 1-3H | LED  | SE-SA | 1h-3h    | 2      | NiCd 7.2V 1.7Ah | 7,5               | 1.0       | 1    |

### LGFM

Logica FM

|          | W | Order code     | Description                | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|----------------|----------------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>12162FM</b> | MAXIMA M LGFM 2LED SA 1-3H | LED  | SE-SA | 1h-3h    | 2      | NiCd 7.2V 1.7Ah | 7,5               | 1.0       | 1    |

### SLG

|          | W | Order code   | Description       | lamp | Model | Autonomy | N° LED | Battery         | Absorption max. W | Weight kg | Pack |
|----------|---|--------------|-------------------|------|-------|----------|--------|-----------------|-------------------|-----------|------|
| <b>H</b> | 2 | <b>17362</b> | Maxima M SLG 2LED | LED  | -     | -        | 2      | NiCd 7.2V 1.7Ah | 7,5/3,5           | 1.0       | 1    |

### HT

Mains voltage power supply (ca 230V 50 Hz - cc 216)

|  | W | Order code   | Description      | lamp | Autonomy | N° LED | Absorption max. W | Weight kg | Pack |
|--|---|--------------|------------------|------|----------|--------|-------------------|-----------|------|
|  | 2 | <b>17442</b> | MAXIMA M 2LED HT | LED  | wall     | 2      | -                 | 1.0       | 1    |



Suspended installation in underground garage, the same appliance has been positioned in double-sided configuration near the side exits







# Autotest System:

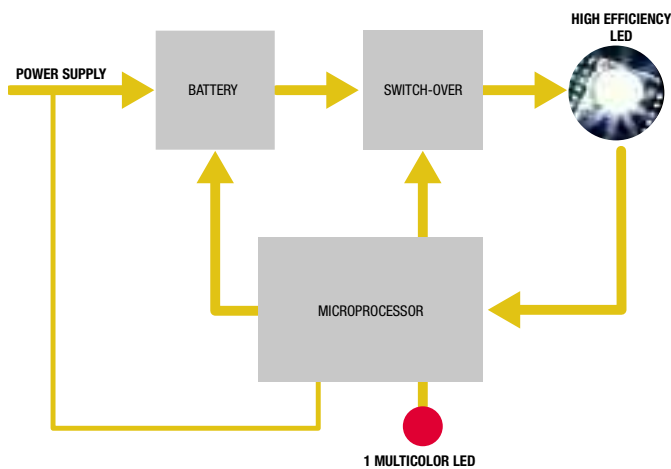
Lamp control  
with the Opticom solution it complies to  
with multicolor LED  
Regulation UNI11222



## "Inibit" remote control

Remote control which prevents the device from being used in an emergency

# AT - AutoTest: the recessed control system



The AT system provides the selfdiagnostics of the luminaire following workplace standards. The selfdiagnostics feature includes autonomy test and lamp function and is performed every 26 weeks. Every 28 days it also performs an operation test of the lamp, the battery and the circuit. The result of the tests are shown by the multicolour LED positioned in front of the luminaire. The Autotest system guarantees perfect control of the luminaire's performance and provides savings in labor costs.

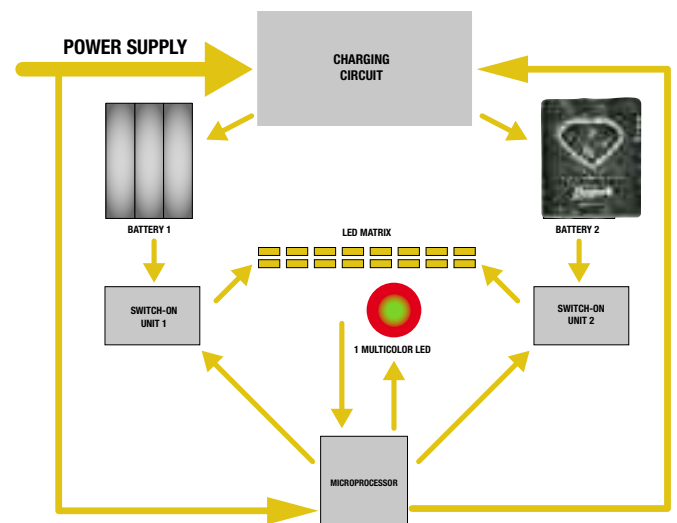
## ELECTRONICALLY CONTROLLED RECHARGING TO SAVE ENERGY AND TO DOUBLE THE BATTERY LIFE

The waste of energy, caused by the continuous recharging of emergency fixtures, is often neglected. Beghelli, always attentive to environmental issues, has created a recharging system which, as soon as the battery has completed the cycle (12 hours), automatically passes to the next stage to maintain the charge, limiting lamp absorption

to less than one Watt. This SYSTEM, which appreciably reduces the waste of energy, limits thermal build-up and consequent stress on the battery which, consequently, will have an increase of its working life that is double the life obtained with conventional circuits.

# AR - AutoTest Ripara: from AT to AR with an extra battery

The AR luminaires perform periodic self diagnostic tests related to operation and autonomy, as required by UNI11222. The selfdiagnostics feature includes autonomy test and lamp function and is performed every 26 weeks. Every 28 days it also performs an operation test of the lamp, the battery and the circuit. The result of the tests are shown by the multicolour LED positioned in front of the luminaire. The Autotest system guarantees perfect control of the luminaire's performance and provides savings in labor costs. AutoRipare luminaires can be installed in existing emergency lighting systems and does not require extra wiring. To perform the tests the AutoRipara system simulates the absence of power and checks that the fixtures are working correctly. The operation test checks all the lamp functions in the space of 1 minute and is held monthly. The autonomy test includes checking of all the lamp functions in a space of time equal to the autonomy required by the individual standards and it is carried out every 26 weeks. The result of the tests is shown by the multicolour LED on the fixtures. This always guarantees perfect control of operation and allows an economic saving on the costs of personnel who otherwise would be assigned to maintenance. AutoRipara fixtures can be installed in existing emergency lighting systems without requiring the laying of further wiring.

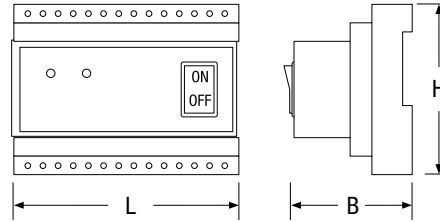


## AUTORIPARA EXTRA BATTERY

The extra battery is pre-set to automatically double the luminous flux, which can be reduced by changing the emergency duration from 1 hour to 2 or 3 hours



## INIBIT remote control



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 150                 | 70 | 90 |

## AT RM

Autotest - Rest Mode

| Order code  | Description | Managed fixtures | Battery       | Weight kg | Pack | Mounting          |
|-------------|-------------|------------------|---------------|-----------|------|-------------------|
| <b>2730</b> | 973         | max 100          | NiCd 6V 0.5Ah | 0.4       | 6    | DIN Guide 3.5x7.5 |



# Sistema LG:

The centralised system for  
Principle  
self-powered devices  
optimisation



## Logica Central Unit

Logica control unit for centralised remote control of emergency lighting systems equipped with up to 128 devices via 2-wire non-polarised BUS.



## Supervision Control Unit

Supervision control unit for simultaneous management of more than one Logica control unit.



## Logica remote Control

Control unit for the inhibition of emergency lighting systems, enables error message to be deleted and tests to be synchronised



## GSM Interface

Device for interfacing with a Logica lighting system (Dali and FM type) with a remote computer on the GSM network.



## LON Interface

Device for interfacing with and supervising a Logica lighting system, with LON-type building automation systems.



## USB/RS485 Converter

Connection interface for PC with any Logica control unit or system. Occupies 6 DIN modules.



## Ethernet/RS485 Converter

Connection interface for PC with any Logica control unit or system.



## RS232/RS485 Converter

Connection interface for PC with any Logica control unit or system.



## DALI On/Off/Dimmer circuit board

Device which can be connected to the Logica system, enabling operators to manually manage the switching on, switching off and dimming of groups of lamps



## Actuator Module

Device which can be connected to the Logica system with relay function (NC or NO)



## DALI Photosensor

Module equipped with a photosensor, compatible with the DALI system. High level of sensitivity to light, in order to enable the Logica system to be integrated with automatic devices.



## Logica DIN Printer

Printer for DIN rail with RS485 connection to Logica control unit



## Logica Visual Software

Software for managing one or more centralised Logica systems for emergency and DALI lighting.

# LG - Logica: the multifunctional centralized system

## AUTOMATES THE PROCEDURES LISTED BY STANDARD UNI 11222

LOGICA is a versatile and modular emergency control system, designed to ensure compatibility with local and national regulations concerning the use and checking of emergency lighting systems. In particular **Standard 11222 specifies the procedures for the periodic checking, maintenance, overhaul and commissioning of emergency fixtures.**



- Modular system
- Fixtures operating in both AutoTest and Centraltest mode
- Programmable autonomy (1hour/ 3hours)
- Performance of the test may be postponed for a part of the system (even / odd)
- Wired connections (LOGICA) or radio connections (LOGICA FM)
- DALI-compatible bus for management of DALI lighting fixtures (LOGICA)
- Possibility of remote control by PC (GSM interface, Ethernet, Usb, RS232)
- Possibility of integrations with Building Automation
- Centralized configuration operations
- 16 programmable groups of fixtures
- 16 programmable luminosity scenes
- Emergency conversion kit (Power packs) for:  
Halogen lamps with electronic and magnetic transformers  
Fluorescent tubes with electronic or magnetic ballast

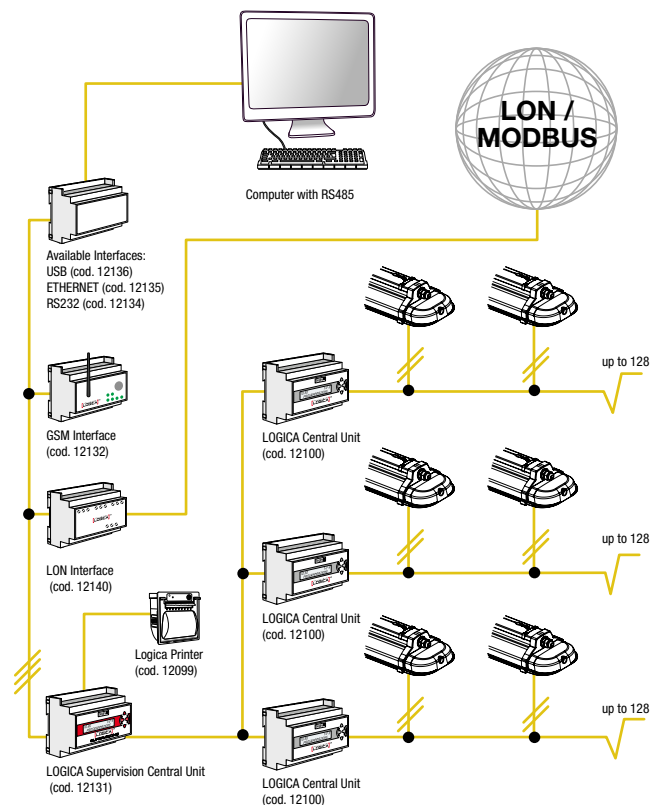
## CENTRALIZED LOGICA SYSTEM VIA BUS THROUGH THE LOGICA SUPERVISION UNIT (up to 4096 fixtures)

The Logica Supervision Unit can manage up to 32 LOGICA Control units for a total of 4096 emergency lighting fixtures and DALI lighting fixtures. In turn it is possible to manage and control the LOGICA Supervision Unit by a remote or local PC. The LOGICA Supervision Unit adds the following functions to the LOGICA system:

- Centralized programming and management of all the connected Logica Control units
- Centralized printing of reports
- Logbook (memorizing the results of the functional and autonomy tests for two years)

## LOGICA CT SYSTEM BY BUS (up to 128 fixtures)

The Logica Control unit allows management of both emergency fixtures of the Logica series and DALI type lighting fixtures (Digital Addressable Lighting Interface - International Standard according to Regulation IEC60929) up to a maximum of 128 fixtures. The number of Logica Control units that can be connected to a PC is practically unlimited, thus allowing the management and control functions of countless devices to be grouped together in a single station.





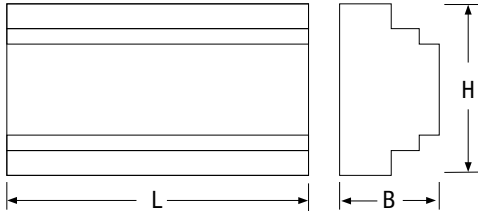
## Logica Central Unit

Logica control unit for centralised remote control of emergency systems equipped with up to 128 devices via 2-wire non-polarised BUS.

The precise number of devices that can be used depends on the type of equipment in question: up to 128 devices from the Logic SE, Lungalargaluce and Lungaluce range, with up to 100 devices for all other ranges, including the Stella Polare LED, up to 64 DALI devices, plus a variable number of devices or photosensors (this must be checked on a case-by-case basis - see the relevant instruction sheet)

Occupies 9 DIN modules. Equipped with two RS232 ports for remote connection. Command display with scroll menu.

Can be interfaced with MODBUS systems (RTU).



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |



LG

Logica

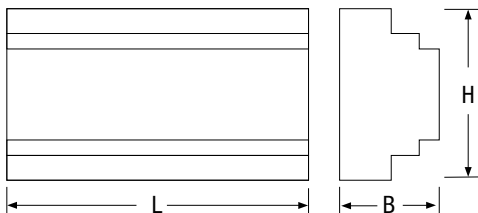
| Order code | Description         | Autonomy | Battery          | Weight kg | Pack |
|------------|---------------------|----------|------------------|-----------|------|
| 12100      | LOGICA CENTRAL UNIT | 1h       | NiCd 7.2V 0.75Ah | 0.6       | 1    |



## Supervision control unit

Supervision control unit for the simultaneous management of multiple control units (max 32) from the Logica range, via a 3-wire BUS (RS 485). It is equipped with an RS485 port for remote connection and an RS232 port for standard connection.

Command display with scrolling print menu. It occupies 9 DIN modules.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |



LG

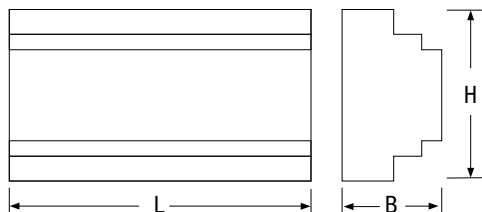
Logica

| Order code | Description                    | Autonomy | Battery          | Weight kg | Pack |
|------------|--------------------------------|----------|------------------|-----------|------|
| 12131      | LOGICA SUPERVISIONCONTROL UNIT | 1h       | NiCd 7.2V 0.75Ah | 0,60      | 1    |



## Logica remote control

"Inhibit" control unit for centralised remote control of the emergency lighting system inhibition function, for up to 128 devices via non-polarised 2-wire BUS. It occupies 9 DIN modules. This device allows for the deletion of error messages and the synchronisation of the tests.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |



LG

Logica

| Order code | Description           | Autonomy | Battery          | Weight kg | Pack |
|------------|-----------------------|----------|------------------|-----------|------|
| 12101      | LOGICA REMOTE CONTROL | 5h       | NiCd 7.2V 0.75Ah | 0.5       | 1    |



## GSM Interface

Device for interfacing with a Logica lighting system, both DALI and FM-type, with a remote computer connected to the GSM network. GSM interface module on board. It occupies 9 DIN modules.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |



LG

Logica

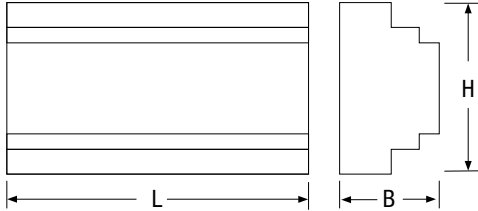
| Order code | Description          | Autonomy | Battery          | Weight kg | Pack |
|------------|----------------------|----------|------------------|-----------|------|
| 12132      | LOGICA GSM INTERFACE | 1h       | NiCd 7.2V 0.75Ah | -         | 1    |





## LON interface

Device for interfacing with and supervising a Logica lighting system, with LON-type Building Automation system. It occupies 6 DIN modules.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 105                 | 75 | 90 |



LG

Logica

| Order code | Description          | Autonomy | Battery | Weight kg | Pack |
|------------|----------------------|----------|---------|-----------|------|
| 12140      | LOGICA LON INTERFACE | -        | -       | -         | 1    |



## USB/RS485 Converter

Connection interface for PC with any Logica control unit or system. Occupies 6 DIN modules.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 150                 | 75 | 26 |



LG

Logica

| Order code | Description         | Autonomy | Battery | Weight kg | Pack |
|------------|---------------------|----------|---------|-----------|------|
| 12136      | RS485 USB CONVERTER | -        | -       | 0.5       | 1    |



## Ethernet/RS485 Converter

Connection interface for PC with any Logica control unit or system.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 87                  | 56 | 30 |



LG

Logica

| Order code   | Description                       | Weight kg | Pack |
|--------------|-----------------------------------|-----------|------|
| <b>12135</b> | RS485 ETHERNET CONVERTER          | 0.5       | 1    |
| <b>12146</b> | MODBUS RTU - MODBUS TCP CONVERTER | 0.2       | 1    |



## RS232/RS485 Converter

Connection interface for PC with any Logica control unit or system.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 150                 | 75 | 26 |



LG

Logica

| Order code   | Description               | Weight kg | Pack |
|--------------|---------------------------|-----------|------|
| <b>12134</b> | DIN RS232/RS485 CONVERTER | 0.4       | 1    |



## Dali On/Off/Dimmer circuit board

This device can be connected to the Logica system, enabling manual management of switch-on, switch-off or dimming of groups of luminaires.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 42                  | 31 | 11 |



LG

Logica

| Order code | Description                      | Pack |
|------------|----------------------------------|------|
| 12138      | DALI ON/OFF/DIMMER CIRCUIT BOARD | 1    |



## Actuator module

This device can be connected to the Logica system and has a relay function (NC or NO).

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 42                  | 31 | 11 |



LG

Logica

| Order code | Description     | Weight kg | Pack |
|------------|-----------------|-----------|------|
| 12142      | ACTUATOR MODULE | -         | 1    |



## DALI Photosensor

Module equipped with a photosensor, compatible with the DALI system. High level of sensitivity to light, allowing the Logica system to be integrated with any automated devices: it enables a group of Logica luminaires to be dimmed automatically, by setting a default luminance level.

LG

Logica

| Order code   | Description      | Weight kg | Pack |
|--------------|------------------|-----------|------|
| <b>12137</b> | DALI PHOTOSENSOR | -         | 1    |



## Logica DIN Printer

Printer for switchboard, for installation on DIN runners. Connection to Logica control unit via RS485 port.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 85                  | 53 | 85 |



LG

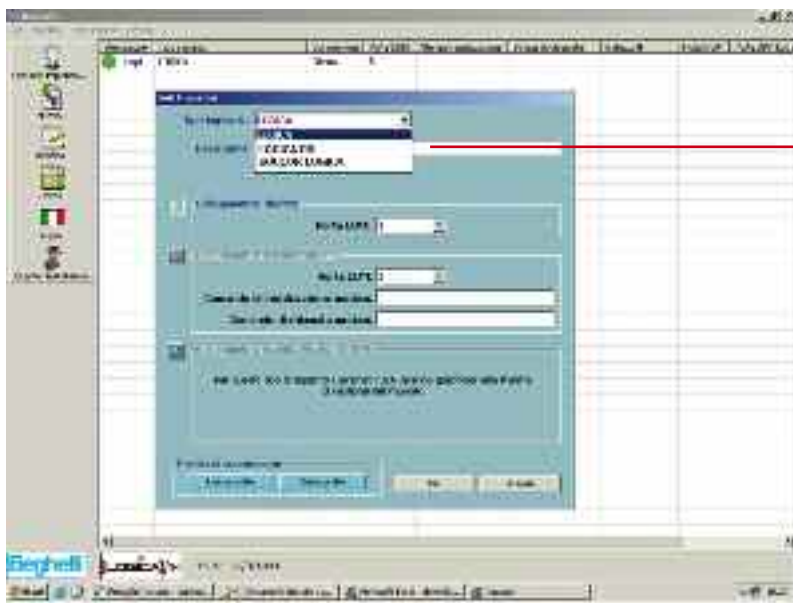
Logica

| Order code   | Description            | Central Unit Model  | Weight | Pack |
|--------------|------------------------|---------------------|--------|------|
| <b>12099</b> | DIN LOGICA TTL PRINTER | 12100 (RS485)       | 0.7    | 1    |
| <b>3284</b>  | DIN 9437 RS232 PRINTER | 12128-12131 (RS232) | 0.7    | 1    |



# LOGICA VISUAL Software

Software designed for the management of one or more centralised Logica or SoccorLogica systems for emergency and DALI lighting. Layouts may be imported in standard formats and completed, by positioning the various emergency and lighting systems. The video interface lets users directly operate the devices and view their status. All operations possible from the remote control unit may be carried out: a report on system status can be automatically generated. Reports can be archived, creating status tracking for systems.



LOGICA VISUAL software can manage

LG  
LGFM

fixtures

SLG

SoccorLogica

| Order code | Description            | Weight | Pack |
|------------|------------------------|--------|------|
| 12139      | LOGICA VISUAL SOFTWARE | 1.0    | 1    |



# LGFM System:

Wireless for simple,  
safe installation

## Radio protocol derived from military systems



### Logica Central Unit

Control unit for centralised remote control of emergency lighting systems. Equipped with integrated antenna, it can manage up to 500 devices



### GSM Interface

Device for interfacing with a Logica lighting system (Dali and FM type) with a remote computer on the GSM network. On-board GSM interface module.



### LON Interface

Device for interfacing with and supervising a Logica lighting system, with LON-type building automation systems.



### Convertitore USB/RS485

Connection interface for PC with any Logica control unit or system. Occupies 6 DIN modules.



### Convertitore Ethernet-RS232/RS485

Connection interface for PC with any Logica control unit or system.



### Logica FM Radio Circuit

High frequency transmitter module for Spread Spectrum radio transmission. The radio circuit can be connected to all compatible products from the LOGICA range.



### Logica DIN Printer

Printer for DIN rail with RS485 connection to Logica control unit



### Logica Visual Software

Software for managing one or more centralised Logica systems for emergency and DALI lighting.

# LGFM - Logica FM: the centralized system by radio

## LOGICA CT SYSTEM BY RADIO (UP TO 500 FIXTURES)

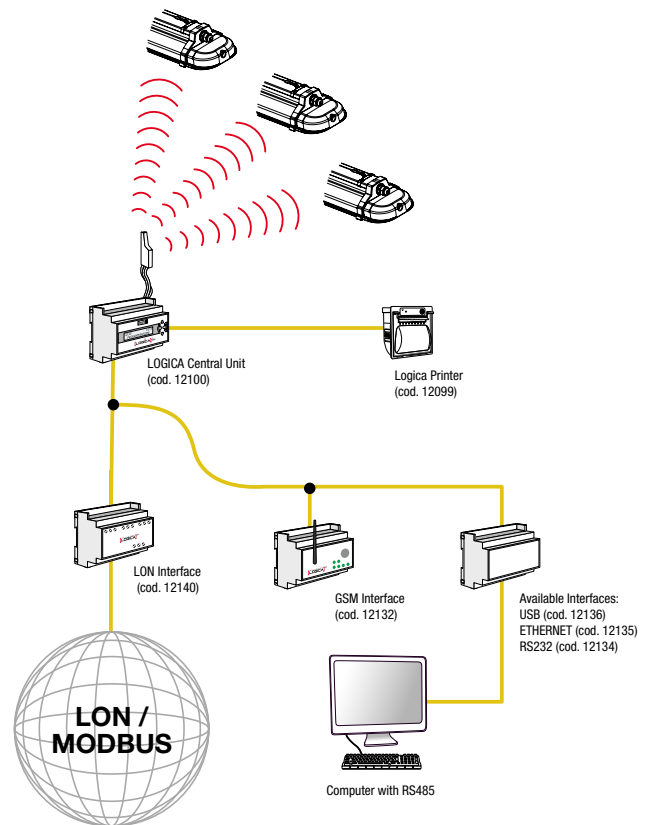
Central Unit manages up to 500 radio fixtures, ranging from lamps for lighting and emergency applications to domotics devices.

## LOW-POWER RADIO COMMUNICATION BASED ON SPREAD-SPECTRUM TECHNOLOGY WITH UNLIMITED RADIO RANGE

The radio waves used by the Logica FM system have very low power to avoid any type of interference and electromagnetic pollution. The power involved in the radio communications is less than one hundredth of the power emitted by an ordinary cell phone.

The signal transmitted by the Control unit is received by the first fixture in the "path" memorized at start-up of the Control unit; each fixture, being equipped with a radio transceiver and amplifier, receives and transmits the signal to the fixture that follows it in the memorized "path".

All the products in this range comply with the requirements of European Recommendation ERC/REC 70-03.



## COMPATIBILITY WITH DOMOTICS CONTROL UNIT FOR LIGHTING

All FM Logica devices and equipment are compatible with the domotics control unit for lighting (see lighting side). The domotics control unit is equipped with Spread Spectrum radio transmitter with a protocol that is compatible with the Logica FM system. Accordingly, where an emergency system is being used alongside a Beghelli lighting system,



all commands can be grouped into a single control unit, which can also run tests and control and dim SA devices, as well as inhibiting emergency function and signalling any malfunctions. The management software interface used is SD Manager, supplied with the unit.

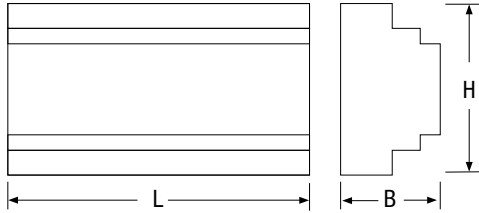




## Logica FM Control Unit

Logica FM control unit for centralised control of emergency systems via radio. The SFH DSS system, which is derived from the aerospace industry, is better known as Spread Spectrum technology, and does not cause electro-magnetic pollution. It represents the best radio-communications technology available in the civil sector. For standard applications, each control unit can manage up to 500 emergency lighting and/or signage devices.

The control unit, which comes complete with a specifically-designed radio antenna, occupies 9 DIN modules, and is equipped with an RS232 port for connection to a printer, as well as a RS485 port for remote connection. The control unit is also equipped with a command display with scroll menu. Can be interfaced with MODBUS systems (RTU).



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |

### LGFM

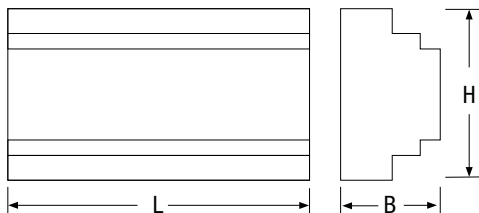
Logica FM

| Order code | Description            | Autonomy | Battery          | Weight kg | Pack |
|------------|------------------------|----------|------------------|-----------|------|
| 12128      | LOGICA FM CENTRAL UNIT | 1h       | NiCd 7.2V 0.75Ah | 0,8       | 1    |



## GSM Interface

Device for interfacing with a Logica lighting system, both DALI and FM-type, with a remote computer connected to the GSM network. GSM interface module on board. It occupies 9 DIN modules.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 160                 | 75 | 90 |

### LGFM

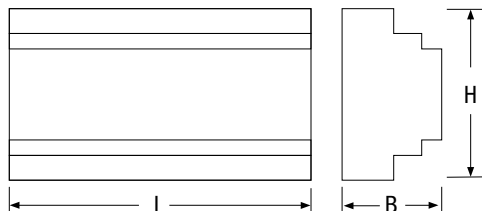
Logica FM

| Order code | Description          | Autonomy | Battery          | Weight kg | Pack |
|------------|----------------------|----------|------------------|-----------|------|
| 12132      | LOGICA GSM INTERFACE | 1h       | NiCd 7.2V 0.75Ah | -         | 1    |



## LON Interface

Device for interfacing with and supervising a Logica lighting system, with LON-type Building Automation system.  
It occupies 6 DIN modules.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 105                 | 75 | 90 |



### LGFM

Logica FM

| Order code   | Description          | Weight kg | Pack |
|--------------|----------------------|-----------|------|
| <b>12140</b> | LOGICA LON INTERFACE | -         | 1    |



## USB/RS485 Converter

Connection interface for PC with any Logica control unit or system.  
Occupies 6 DIN modules

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 150                 | 75 | 26 |



### LGFM

Logica FM

| Order code   | Description         | Weight kg | Pack |
|--------------|---------------------|-----------|------|
| <b>12136</b> | RS485 USB CONVERTER | 0.5       | 1    |



## Ethernet/RS485 Converter

Connection interface for PC with any Logica control unit or system.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 87                  | 56 | 30 |



### LGFM

Logica FM

| Order code | Description                        | Weight kg | Pack |
|------------|------------------------------------|-----------|------|
| 12135      | RS485 ETHERNET CONVERTER           | 0.5       | 1    |
| 12146      | MODBUS RTU - MODBUS TCP CONVERTERS | 0.2       | 1    |



## RS232/RS485 Converter

Connection interface for PC with any Logica control unit or system.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 150                 | 75 | 26 |



### LGFM

Logica FM

| Order code | Description               | Weight kg | Pack |
|------------|---------------------------|-----------|------|
| 12134      | DIN RS232/RS485 CONVERTER | 0.4       | 1    |



## Logica FM radio circuit

High-frequency transmitter module for Spread Spectrum radio transmission. The radio circuit can be connected to all compatible products in the LOGICA range.



| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 80                  | 12 | 19 |

## LGFM

Logica FM

| Order code   | Description             | Weight kg | Pack |
|--------------|-------------------------|-----------|------|
| <b>12130</b> | LOGICA FM RADIO CIRCUIT | 0.1       | 1    |



## Logica DIN Printer

Printer for switchboard, for installation on DIN runners. Connection to Logica control unit via RS485 port.

| • Dimensions (mm) • |    |    |
|---------------------|----|----|
| L                   | B  | H  |
| 85                  | 53 | 85 |



## LGFM

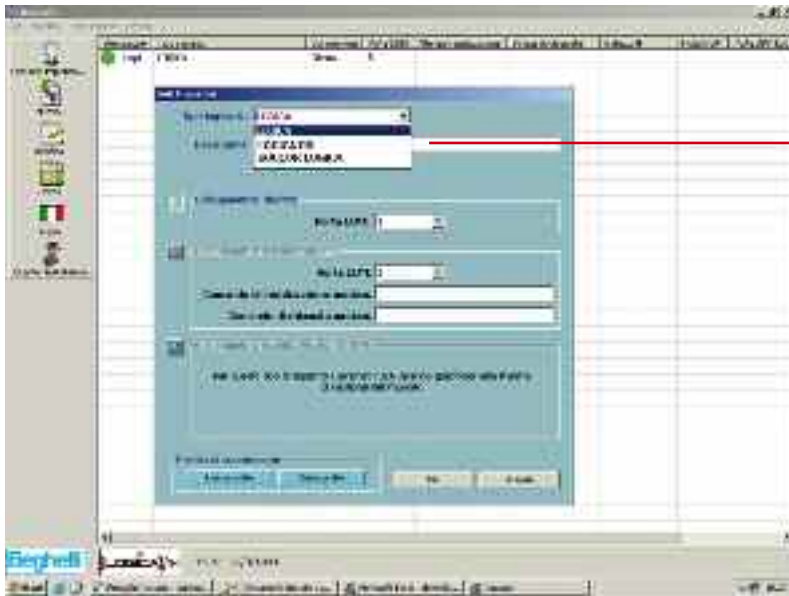
Logica FM

| Order code   | Description            | Model               | Weight | Pack |
|--------------|------------------------|---------------------|--------|------|
| <b>12099</b> | DIN LOGICA TTL PRINTER | 12100 (RS485)       | 0.7    | 1    |
| <b>3284</b>  | DIN 9437 PRINTER RS232 | 12128-12131 (RS232) | 0.7    | 1    |



## Logica Visual Software

Software designed for the management of one or more centralised Logica or SoccorLogica systems for emergency and DALI lighting. Layouts may be imported in standard formats and completed, by positioning the various emergency and lighting systems. The video interface lets users directly operate the devices and view their status. All operations possible from the remote control unit may be carried out: a report on system status can be automatically generated. Reports can be archived, creating status tracking for systems.



LOGICA VISUAL software can manage

LG  
LGFM

fixtures

### LGFM

Logica FM

| Order code | Description            | Weight | Pack |
|------------|------------------------|--------|------|
| 12139      | LOGICA VISUAL SOFTWARE | 1.0    | 1    |

# General terms of sale

## 1. ORDERS - COMPLETION OF AGREEMENTS

Product purchase orders must be provided in writing. The placing of an order is final. All collaboration schemes, orders, commissions and agreements are considered to be completed when verbal or written confirmation is received from the Seller or once the billing and/or delivery of the ordered products has taken place.

## 2. CHANGES AND VARIATIONS

Once the order has been completed, any change or addition to the contents and conditions thereof will only be considered valid (and therefore become effective) once the Seller has sent the Buyer confirmation of this change. The text of the confirmation or the confirmation of change received from the Seller will prevail over any other document.

Where the Buyer does not wish to accept the updated terms regarding their order, they must declare this within 20 (twenty) days from the date of confirmation. Failure to do so will result in the confirmation of change being deemed to be accepted in full.

## 3. ACCEPTANCE

The Seller may not be held liable for any non-acceptance of an order, or for failure or delay in the delivery of goods that constitute the order in question. The acceptance and completion of the order are specifically subject to the availability of the products ordered, and to the absence of any circumstance that could have an impact on the availability of these products, and on the prompt delivery thereof.

## 4. TERMS OF DELIVERY

The delivery terms communicated by the Seller are purely indicative.

Delivery dates expressed in days usually refer to working days.

Any changes in the terms of delivery requested by the Buyer must be accepted in writing by the Seller. Delay, disruption and/or total or partial suspension of the delivery, even if not as a result of force majeure and/or unforeseeable circumstances, does not entitle the Buyer to compensation for damages and/or reimbursement of any kind or to repayment of any interest due. In such situations, the Buyer may only cancel the order, having provided the Seller with formal notice of this at least thirty days from the day of receipt of the registered letter sent by the Buyer.

## 5. FORCE MAJEURE

For indicative and illustrative purposes only, the following are considered to be cases of force majeure:

strikes, lockouts, riots, labour disputes, fire, natural disasters, inability to supply products, interruptions or difficulties in shipping, transport delays, lack of raw materials, government acts, measures introduced by the authorities, any supplier failings or shortcomings and, more generally, any other unpredictable event that is outside of the reasonable control of the Seller (this list is not exhaustive). In all such cases, as well as in the event of other unforeseeable circumstances, the Seller reserves the right to suspend and/or delay the delivery of products and also to cancel orders (including those already confirmed), without this entitling the Buyer to demand compensation for damages and/or reimbursement of any kind from the Seller. This includes direct, indirect and consequential damages.

## 6. DELIVERY - TRANSPORTATION

Goods always travel at the Buyer's risk, even if sent via prepaid freight and/or in a vehicle owned by the Seller, and accordingly, the Seller will not accept any claims relating to breakages and/or tampering with products.

Products are delivered to the Seller premises in Monteveglio - Valsamoggia (Bologna) or to depositories that belong to third parties, with whom the Seller has entered into agreements relating to this matter ("Ex works" condition - Incoterms 2010).

The transport costs are borne by the Buyer. The Seller does not accept return packages.

## 7. COMPLAINTS - REPLACEMENT OF GOODS

With regard to replacements and complaints, the safeguards stipulated by the laws and regulations regarding the specific type of customer, consumer or professional operator shall apply. On receipt of the goods, the Buyer must check the condition of these, as well as ensuring that the amount of products supplied corresponds with the delivery note. Any complaints regarding the quality, quantity or type of product must be made in writing within 8 (eight) days from the date of receipt of goods. After that date, and subject to the various warranty conditions laid down for individual products, no claim can be submitted regarding either the substance, quality or general condition of the goods. The Buyer may not return the goods under any circumstances without the prior written consent of the Seller, and similarly, may not delay and/or suspend payment of invoices in full or in part, even in cases where the product in question is the subject of a complaint. Should the complaint be deemed to be founded in the opinion of the Seller, and has been brought within the warranty terms contained in the illustrative booklets that accompany each product, the obligation of the Seller is limited to the simple substitution of the non-compliant product, which shall be

delivered in the same way as the original product supplied. As such, the Buyer does not have the right to cancel the order or to obtain any form of compensation for expenses and/or damages related thereto. The right to replacement of the product that is the subject of a complaint no longer applies in all cases in which the product is not carefully stored, rendered available to the Seller, and immediately returned to the place specified by the latter.

## 8. APPLICATION OF THE WARRANTY

The warranty only applies to product defects and/or non-conformity where this falls under the terms and conditions indicated in the technical specifications stated and/or agreed, or following the premature breakage of a component of the product.

The period of validity of the above-mentioned warranty is 4 years for products marked 4G (on all parts, including batteries), 3 years for products marked 3G (on all parts, except bulbs) and, in general, for the number of years indicated alongside the letter G (e.g. 10 years for products marked 10G).

For products not marked 4G or 3G, the normal legal requirements apply.

The warranty does not apply to products which have been tampered with, or to defects caused by accidental damage of any kind, including during transport and installation, or to damage caused by improper use or by failure to comply with the product specifications. Similarly, the warranty does not apply to defects caused by negligent use and maintenance, by incorrect installation or connection, or by installation of a product by someone other than a qualified professional, or not carried out in accordance with the highest professional standards.

Unless otherwise required by applicable law, the warranty is limited to the replacement/repair of the non-compliant product or parts thereof. The new or repaired product shall be delivered in the same way as the original product supplied.

Warranty operations carried out by the Seller are subject to compliance with the terms of payment by the Buyer.

## 9. PRICES

The prices indicated in the Seller's price lists are not binding, and as such, the Seller reserves the right to modify these up to the time of delivery of the products.

The prices are net of VAT and any other taxes.

## 10. PAYMENTS

All payments must be made in accordance with the terms and in the manner indicated by the Seller at the headquarters of the latter located at Monteveglio - Valsamoggia (Bologna), or to the person specified by the Seller, who is in possession of written authorisation from the latter. In case of delayed payment, the Buyer shall pay the Seller default interest, running from the expiry of the contractual period until final payment. This default interest will be charged in accordance with the rates stipulated by Legislative Decree 231/2002, except in the case of reimbursement for major damages suffered. Any failure to meet the terms of payment by the Buyer will entitle the Seller to terminate the supply contract with immediate effect, as well as granting the latter the right to suspend delivery of all products on order, with no obligation to communicate this to the Buyer. Furthermore, the Seller reserves the right to demand immediate payment of the entire outstanding balance, and to take steps to recover any damages.

In case of non-payment and/or the worsening of the financial conditions of the Buyer that could negatively affect the collection of the balance due by the Seller, and/or in the case of long delays in payment and/or high total outstanding debts (which may relate to amounts owed for previous purchases) by the Buyer, the Seller reserves the right to apply the provisions of Article 1460 and 1461 of the Italian Civil Code, to take appropriate precautionary measures, and to resort to all other permitted forms of self-preservation; It is further agreed that in such cases, the Seller may suspend any and all future deliveries of products to the Buyer.

## 11. LIEN AGREEMENT

A lien agreement applies to all products sold; as such, products shall remain the property of the Seller until payment for these is made in full.

Accordingly, the Buyer agrees to inform third parties of the existence and validity of this lien agreement, and to safeguard the rights of the Seller arising therefrom.

## 12. PROTECTION AND SAFEGUARDING - DISPUTES AND COURT OF JURISDICTION

The invalidity or unenforceability of any provision contained within these General Terms and Conditions shall not prejudice or detract from the validity and enforceability of the other provisions; both the Seller and the Buyer hereby undertake to replace any clause declared ineffective and/or null and void or impracticable with another provision with similar effect.

Any controversy or dispute relating to the interpretation, validity and completion of an order, or to the agreements covered by these Terms and conditions, will be governed by Italian law. The sole court of jurisdiction is the Court of Bologna.

# Product safety and European directives

## PRODUCTS SAFETY AND EUROPEAN STANDARDS

Beghelli products are constructed in accordance with the highest safety and quality standards, and no compromise is made with regard to foreseeable overload conditions or to the safety of persons, domestic animals or property, provided that all devices are installed and used for the purpose for which they are intended, under the environmental conditions provided, and are fitted correctly and maintained properly by qualified personnel.

Where applicable, products are manufactured in compliance with the requirements of Community directives 2014/35/EU, 2014/30/EU, 2014/53/EU, 2014/30/EU, 2009/125/EC and 2001/65/EC.

The CE marking affixed to the product and/or packaging and/or any instructions for use which accompany the product certify compliance with the above Directives. Beghelli keeps its own Technical Archive containing the documentation which demonstrates that the product in question has been examined to assess compliance with these Directives. The documentation in the Technical Archive is available for inspection by the competent authorities.

Products that do not fall within the scope of the EC Directives referred to above nonetheless comply with the quality standards set out in the various regulations currently in force, as well as those contained in Directive 2001/95/EC ("the General Product Safety Directive"), implemented by Legislative Decree no. 172/2004.

The information contained in the Beghelli catalogues may be subject to change without notice. All instructions, measurements, drawings and photographs of products and components are provided for information purposes only, and are subject to change without prior notice. This information should not be considered to be pre-contractual information. All products that are to be connected to mains power must be fitted in accordance with the electrical installation rules in force in the country of destination, and with the information contained in the product catalogues and/or the instructions included with the product itself.

The product catalogues are available on the Beghelli website at [www.beghelli.it](http://www.beghelli.it) at the following link, or can be requested from :

Beghelli S.p.A. Sales Management - Via Mozzeghine, 13/15 Loc. Monteveglio - 40053 Valsamoggia, Bologna

# Environmental protection

## WEEE 2012/19/EU DIRECTIVE

The amount of waste directly connected to electrical and electronic equipment (WEEE) is rapidly increasing, with much of this attributable to light sources.

The directive is primarily designed to prevent WEEE from being thrown into landfill or incinerators at end of life, causing a further serious impact on the environment.

Accordingly, Directive 2012/19/EU was introduced in order to implement a monitoring mechanism which includes the controlled management of devices at end of life, promoting the reuse or recycling of these. Furthermore, the legislative mechanism promotes design and production concepts which facilitate the disposal of products, both with regard to disassembly and materials.

Industry players from every stage of the marketing chain are called upon to make a contribution - some of these contributions are financial, whereas others involve actions designed to respect and support the spirit of the Directive (as well as to protect the environment).

In Italy, the Directive has been implemented through Legislative Decree No. 49 of 14 March 2014.

## THE MAIN OBLIGATIONS ARE AS FOLLOWS

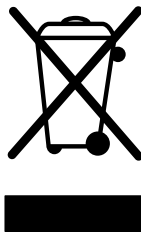
The manufacturer (to be understood in the broadest sense, essentially entailing companies affixing their brand to a given good or goods, and all those importing from third countries) is responsible for the costs relating to the end-of-life disposal of their products.

The consumer is asked to ensure that he/she takes an intelligent approach to managing the product in question at the end of its life, delivering it to a suitably equipped facility or point of sale, or following any other instructions provided by the manufacturer.

Beghelli has always been extremely sensitive to environmental issues, and is a founding member of the ECOLIGHT consortium.

Choosing products from companies that participate in voluntary waste recovery and recycling initiatives is a responsible and environmentally-sound choice, and helps to protect the environment and our future.

The products that fall within the scope of the WEEE Directive are identified by the crossed-through bin symbol, as mentioned alongside here.



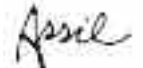
ECOLIGHT



Dealer  
iMQ brand



Associated:



Partner DIALux



