

**2018** **REVERSO** **EMERGENCY**

825.117.000

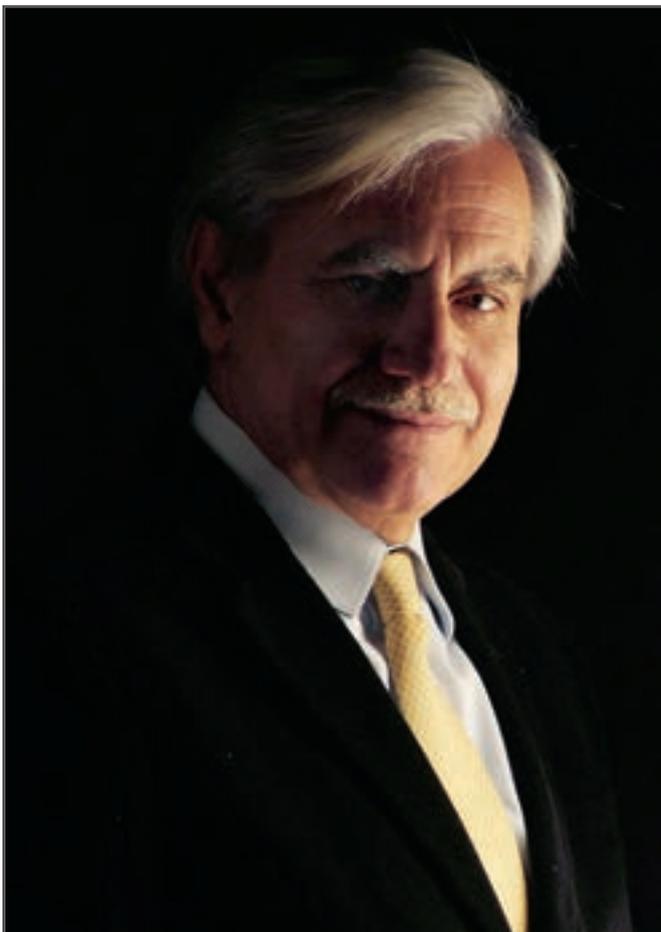




# The Evolution of Control

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*

respective laws (reg. 244/09, 245/09 and 1194/2012)

# Emergency Lighting

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# 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



Titanium Battery, latest-generation Titanium Dioxide (LTO) batteries, long-lasting and fast recharge, up to 80% in 2 hours



**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



Technologically advanced products, designed with a view to energy saving, recycling at the end of their working life, and reduced wear of parts during use.



Products with extended 4-year guarantee on all parts, battery included. For the application procedures, see the general terms of sale.



Products with extended 4-year guarantee on all parts, battery included. For the application procedures, see the general terms of sale.



Plug & Light Independent Inverter and integrated battery for fast and easy installation in full compliance with safety requirements without affecting the performance of the device



Fixture intended for use with a risk of explosion due to the presence of combustible powders or explosive substances according to the **ATEX Directive**



Devices equipped with Touch Sensor for switching on Night mode with deactivation / activation Automatic twilight integrated.

# 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 SA/DC		Fixtures with particular resistance to UV radiation and aggression by mineral oils
TR/CBS	Self-powered fixtures without diagnosis		Indicates Resistance Temperature of the product to the incandescent wire test (CEI EN 60598-1)

 <p><b>IP65</b> opticom TR AT LG HT</p> <p><b>FORMULA 65 LED</b> page 53</p>	 <p><b>IP66</b> LG HT</p> <p><b>ACCIAIO EMERGENCY LED</b> page 11</p>	 <p><b>IP65</b> LG HT</p> <p><b>LOGICA LED</b> page 17</p>
	 <p><b>IP42 IP65</b> TR AT</p> <p><b>EUROCOMPLETA LED</b> page 77</p>	 <p><b>IP65</b> LG HT</p> <p><b>AESTETICA</b> page 83</p>

Monitoring and control systems: description of Systems and fixture compatibility

<p><b>TR/CBS</b></p> <p>SELF-CONTAINED 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 195</p>	<p><b>LG /LGFM</b></p> <p>SELF-POWERED DEVICES AT WITH AUTOTEST THAT CAN BE MONITORED VIA WIRED BUS (LG) OR VIA WIRELESS LINKS (LGFM)</p> <p>LG page 199 LGFM page 209</p>	<p><b>HT</b></p> <p>EQUIPMENT POWERED THROUGH MAINS POWER SUPPLY</p>
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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  
opticom  
AT LG HT

LUNGALARGALUCE LED - ceiling page 89



IP42  
opticom  
AT LG HT

LUNGALARGALUCE LED - recessed page 97



IP65  
opticom  
AT LG HT

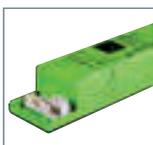
LUNGALARGALUCE EXTREME LED page 107



IP42 IP65  
TR AT

TICINQUE LED page 113

### Emergency conversion kits



IP40 IP65  
TR

INVERTER LED PLUG&LIGHT page 119



IP20 IP65  
AT LG

INVERTER LED addressable page 123



IP20 IP65  
AT LG

INVERTER LED EXTREME page 127



TR AT LG

ELETTRINVERTER page 131

### LED Module with emergency conversion kits



IP20  
opticom  
AT LG HT

LED EMERGENCY MODULE page 141



IP20  
TR

ECOLED INVERTER MODULE page 150

### Portable Emergency



IP40  
TR

SCOUT LED page 157

### Exit signs



IP40  
opticom  
TR AT LG

UP-LED EXIT page 163



IP40 IP41  
AT LG HT

INDICA LED page 171



IP40  
LG HT

PLEXILITE LED page 183



IP54  
LG HT

MAXIMA LED page 189

### Smart and high performance solutions for emergency lighting

opticom TECHNOLOGY

PATENTED OPTICAL COMMUNICATIONS SYSTEM AMONG SMARTPHONES AND LIGHT FIXTURES TO SETUP AND MONITOR. OPTICOM DEVICES CAN BE EXTENDED TO LG, LGFM AND DALI SYSTEMS

SYSTEM page 4

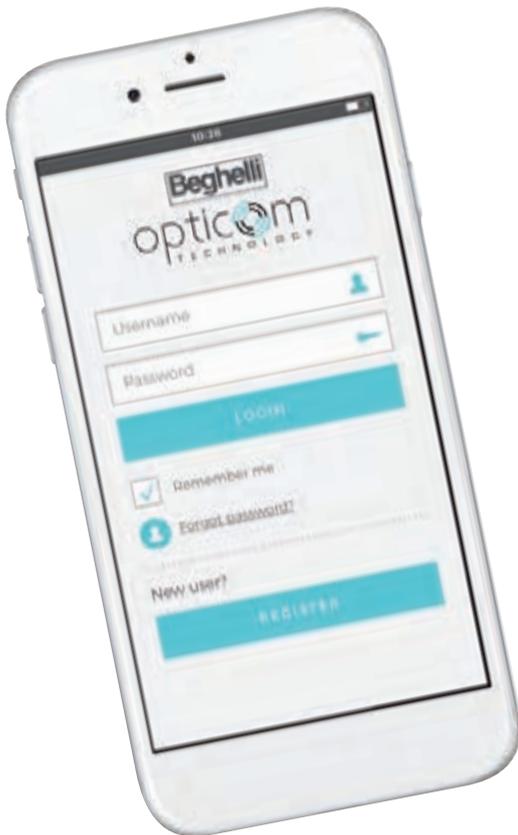
Autotest Ripara (AR) SAFETY TECHNOLOGY: DOUBLES THE LUMINOUS FLUX OR AUTONOMY OF THE DEVICE AND ENSURES OPERATION EVEN IN THE CASE OF BATTERY FAILURE, THANKS TO THE SECONDARY "RIPARA" BATTERY.

TITANIUM BATTERY page 8

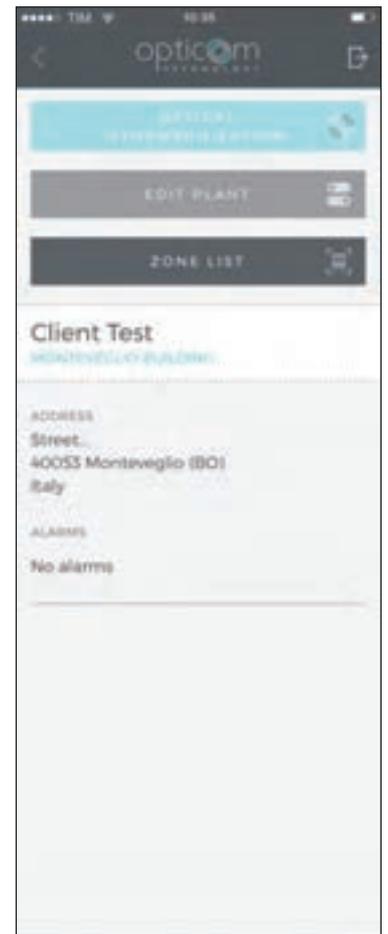
DEVICES EQUIPPED WITH A BATTERY MADE FROM TITANIUM NANO-STRUCTURES

- LONG LIFESPAN (10 YEARS)
- EXTREME OPERATING TEMPERATURES: -20 + 50°C
- QUICK CHARGING: 80% IN LESS THAN 2 HOURS

TITANIUM BATTERY page 8



Choose what to control, lighting or emergency lighting.



Plant details: The app shows the plant status, split in zones. To refresh lamp status an "optical synchronization" is required.

## Patented technology to exchange data among Beghelli luminaires and Smartphone via OPTICOM app (Apple store, Play store)

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

Opticom (**OPT**ical **COM**munication technology), is an optical communication system which can exchange informations among emergency luminaires and smartphone.

The sensor installed in every AT Opticom luminaire is able to detect flash sequences from smartphone and smartphone as well is able to recognize the flash sequence from Beghelli luminaires. This is OPTICOM, the two-way optical communication technology to control lighting with smartphone, to set up

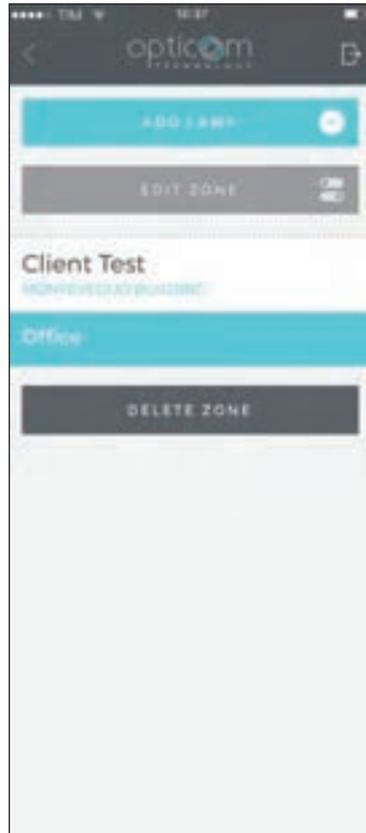
emergency luminaires parameters, to keep a system register ( logbook ) where all the events as errors, anomalies, tests, test results, maintenance operations are recorded and stored, ready to be displayed or printed out. All Opticom technology devices are already equipped with a unique code that is automatically 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

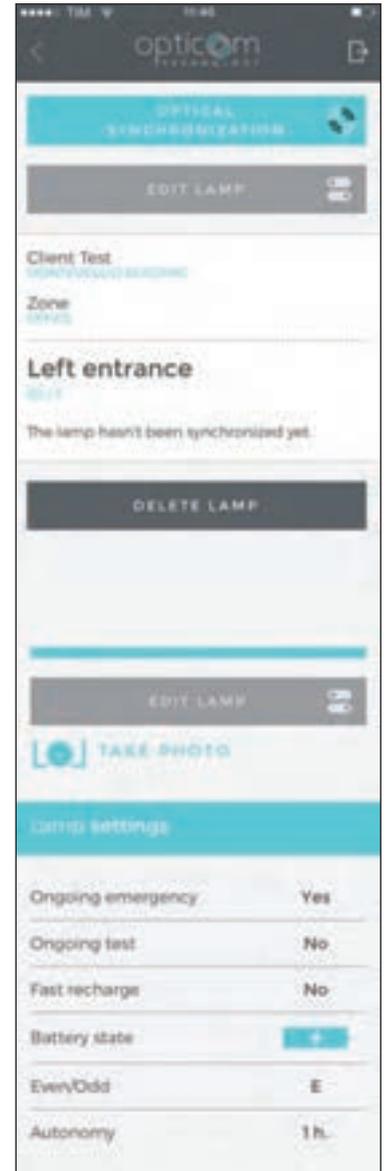
the dedicated OPTICOM Technology app, available for free on Apple and Play stores: **flashing Beghelli Opticom luminaires with Opticom App, it's possible change settings like autonomy( 1h, 1,5, 2h, 3h, 8h), lumen output, operation type ( SE-SA-PS), test scheduling, and it's possible to run functional test or duration test to have a fast check. Furthermore each device can be located and described.**



**List of zones: It's possible to create zones and split luminaires belonging them.**



**Zone status. Zones with anomalies are highlighted.**



**Lamp data sheet. To check technical informations, settings, history and current status**

## 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:

- Without modules, Opticom luminaire is AT+ (AT + Opticom controllable)
- 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

**DALI  
MODULE**  
15038

**LG  
MODULE**  
15036

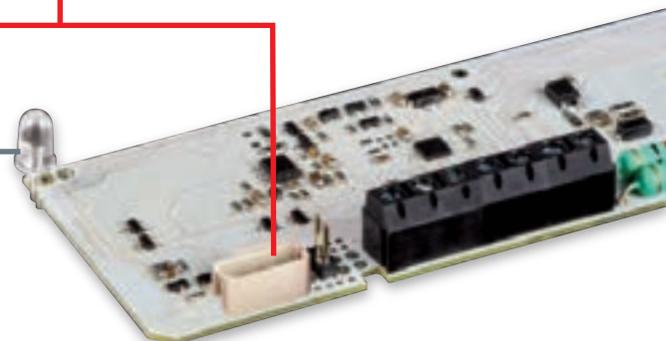
**LGFM  
MODULE**  
15037

MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTODIODE SUPPLIED

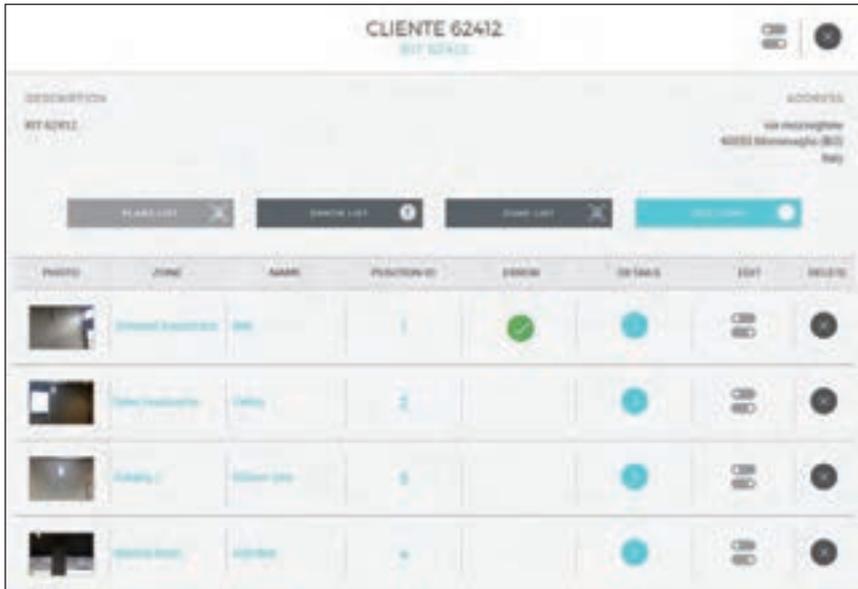
opticom<sup>®</sup> Smartphone interface  
TECHNOLOGY to control and set up the system



#### System Modules

to be ordered separately

Order code	Description	
15036	LG MODULE	LG
15037	LGFM MODULE	LGFM
15038	DALI MODULE	DALI



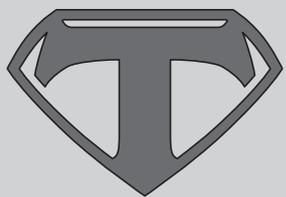
**Logbook example.**  
On the Beghelli web site [opticom.beghelli.it](http://opticom.beghelli.it) the updated plant informations are available and logbook report can be displayed, downloaded in PDF or printed.

## 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

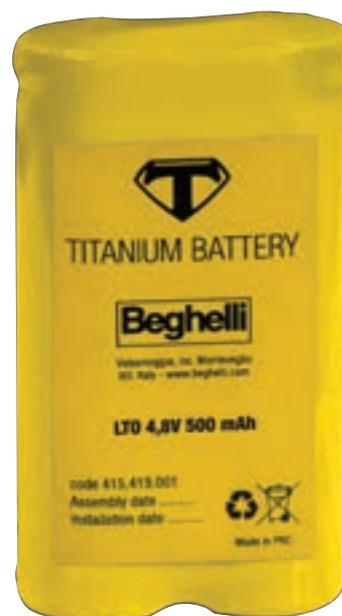
solution) has increased the speed of ion transfer between the poles exponentially during the charge and discharge process, increasing battery power, energy density and safety whilst drastically reducing charging time. The electro-chemical characteristics of these cutting-edge accumulators offer enhanced 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**  
-20°C ÷ +50°C
- 3 Long life**  
With at least 7.000 recharging cycles, reaches 10 years lifespan
- 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



Lungalargaluce Extreme LED





# Acciaio Emergency LED

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



Acciaio is an high performance LED emergency lighting developed to work in hard conditions, like industrial applications, exterior areas, explosive atmospheres.

With a luminous flux of 1600lm, controlled by a 4-cell anti-glare aluminum reflector, Acciaio Emergency LED is the top on the market.

The strong structure is the perfect mix of high technology materials like Steel, Technopolymer and Mircoprismatic tempered glass. The result is a strong luminaire IK09, IP66, suitable for installations where ATEX is required.

In addition, the Ice Pack system is easily integrated in the device for installation in extreme conditions, where temperature can reach  $-40^{\circ}$ .



CONFORMS TO  
ATEX 2014/34/EU DIRECTIVE  
FOR ZONES 22 AND 02  
with accessories to be ordered  
separately

# Acciaio Emergency LED

## Emergency light

Acciaio Emergency LED is the answer where strong luminaires are required for high risk applications. The steel body and the glass diffuser offer excellent mechanical strength (IK09) and protection against aggressive chemical agents. In the industrial context, it is perfect for installations in explosive atmosphere environments created by alterations in gassy substances and the presence of air-suspended combustible powder (pursuant to ATEX 2014/34/EU 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.

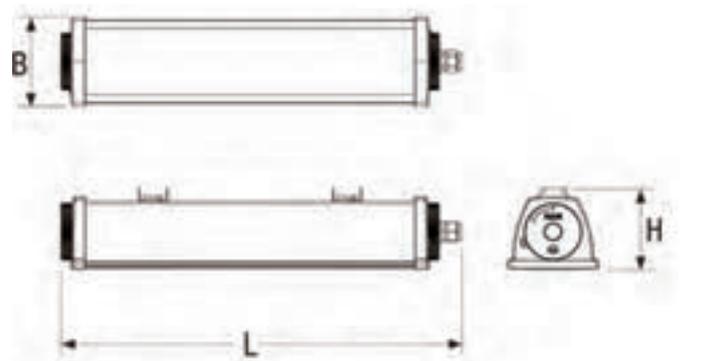
Acciaio Emergency LED is suitable for use in demanding contexts including outside environments that are directly exposed to the elements. It is designed to resist mechanical vibrations and electromagnetic disturbances that are typical of industrial environments. The special steel brackets allow the device 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.



### GENERAL CHARACTERISTICS

<b>Equivalent power*</b>	24
<b>Power supply</b>	230Vac +/- 10% 50Hz
<b>Autonomy</b>	1h, 2h, 3h
<b>Operation</b>	Maintained (SA), Not Maintained (SE) Rest Mode: with optional control device (cod. 12101)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, ATEX 2014/34/EU
<b>ATEX Classification</b>	CE EX II 3G Ex nA IIB T4 Gc, CE EX II 3D Ex tc IIIC T80°C Dc
<b>Protection level</b>	IP66, IK09
<b>Environmental temp. SE</b>	0 ÷ +50 °C
<b>Environmental temp. SA</b>	0 ÷ +40 °C
<b>Temp. with ICE PACK</b>	-40 ÷ +50 °C (+40°C SA Model)
<b>Installations</b>	wall, ceiling, suspension, electrified rail
<b>Body</b>	Grey RAL 7035 polyester powder coated steel sheet
<b>Heads</b>	Tecnopolymer PC+PBT
<b>Optic</b>	Anti-glare aluminum diffusing
<b>Diffuser</b>	tempered micro-prismatic high transmission (3mm) glass
<b>Light source</b>	LED

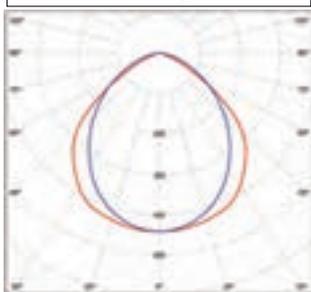
\* Equivalent power for comparison with fluorescent lighting fixture



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

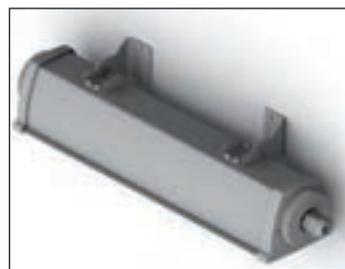
\* Equivalent power for comparison with fluorescent lighting fixture

### Polar Diagram



Standard optic

### WALL INSTALLATION



ADJUSTABLE BRACKET

## Accessories

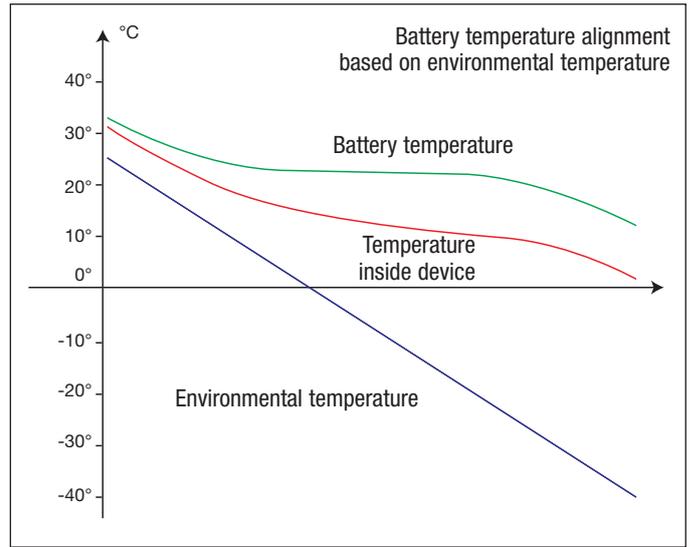
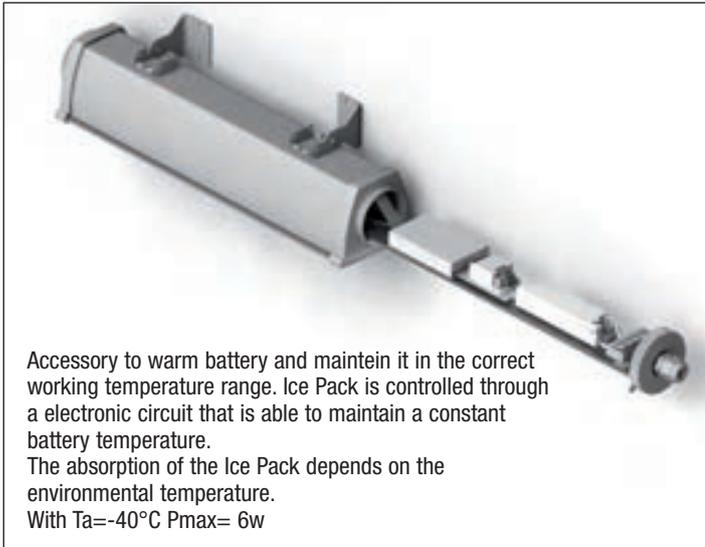
supplied

Cod. ord.	Descrizione
-	ADJUSTABLE BRACKETS FOR WALL INSTALLATION

## Accessories

to be ordered separately

Order code	Description
19046	ICE PACK BATTERY (for order code 15030-15031 only)
19064	SCREEN BAND DX/SX/BS ACC EM
12101	REMOTE CONTROL (RM INHIBIT FUNCTION)



19046 ICE PACK

to be ordered separately

**LG** Logica

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	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	Flux** SE lm	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 Granluce** Logica

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	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		1.7	1.5	1

**LGFM Granluce** Logica FM

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	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		1.7	1.5	1

**SLG**

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	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	Flux** SE lm	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 (AC 230V 50 Hz - DC 216V)

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	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 fluorescent lighting fixture \*\*Minimum Flux guaranteed according to EN 60598-2-22



Installation in applications subject to the ATEX 2014/34/EU 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.



00%

Diesel  
Super+  
Super  
Benzin

1



# Logica LED

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



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 diffuser: 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

<b>Power**</b>	8, 11, 24 W
<b>Power supply</b>	230Vac ± 10% 50/60Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE), Public Performance (PS)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<b>Protection grade</b>	IP65, IK07
<b>Autonomy</b>	1h, 2h, 3h, up to 6h for the 8W version (settable with DIP switch)
<b>Working temp.</b>	0°C ÷ +40°C
<b>Mounting</b>	wall, ceiling, recessed, suspended ceiling
<b>Housing</b>	Grey Polycarbonate, RAL 7035
<b>Optics</b>	Symmetrical, metallized antiglare Polycarbonate
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	LED

\* Indicative power for comparison with fluorescent tube fixtures

## Logica LED

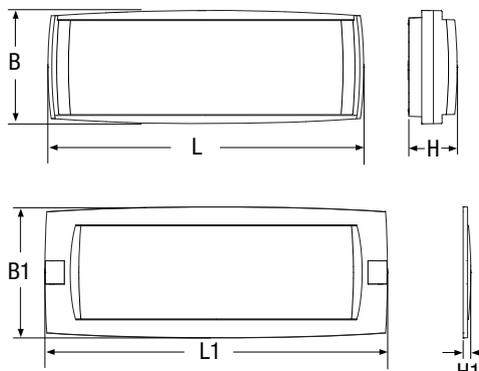
### LED Emergency

This emergency lighting fixture is designed with a sophisticated electronic technology. LOGICA LED is a luminaire ready to be interfaced with LOGICA wired or LOGICA wireless Beghelli monitoring systems. When it's not controlled it works like an autotest (AT).

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.

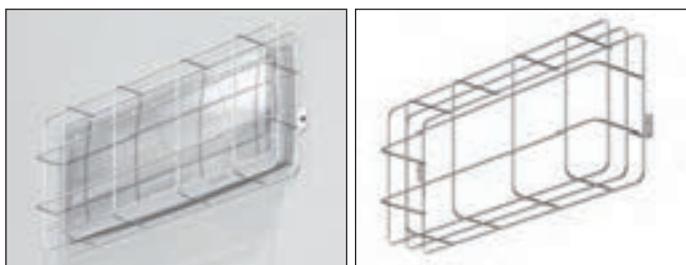
Inside the housing is a diffuser with dual reflection, which in turn contains two series of highly efficient LEDs that ensure unprecedented technical lighting output (up to 1500lm). The highly transparent Polycarbonate diffuser has been designed to seal the optics and obtain Protection degree IP65.



Power** W	• Dimensions (mm) •						Diffuser visibility (DV) 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

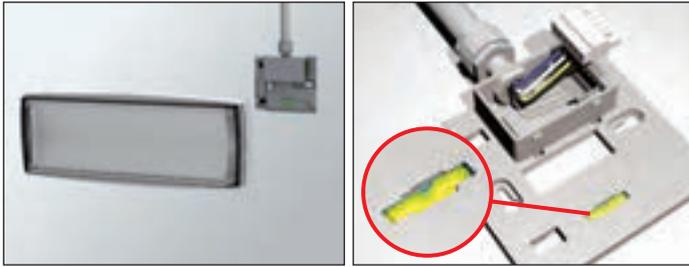
Order code	Description
-	LOGICA CABLE GLAND
<b>12198</b>	RECESSED BOX LOGICA IP65
<b>12199</b>	RAPID WALL FIXING BRACKET
<b>4072</b>	ADHESIVE LEFT, RIGHT, DOWN LOGICA (SA/PS MODELS ONLY)

## 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>	ADHESIVE LEFT, RIGHT, DOWN LOGICA
<b>12194</b>	LOGICA METAL GRID
<b>12193</b>	LOGICA SUSPENDED CEILING BRACKET

## WALL MOUNTING WITH RAPID BRACKET AND SPIRIT LEVEL



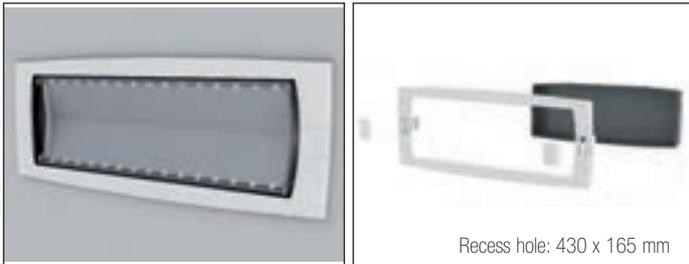
**12199** RAPID WALL FIXING BRACKET supplied

## 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 (public performance) to be ordered separately  
**12176** LOGICA PS LEFT DIFFUSER (public performance) to be ordered separately  
**12177** LOGICA PS DOWN DIFFUSER (public performance) 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

## 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 (AC 230V 50 Hz - DC 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

\*Equivalent power for comparison with fluorescent lighting fixture \*\*Minimum flux guaranteed according to EN 60598-2-22

Contact the Beghelli sales network for SICURO 24, SLG and HT models



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



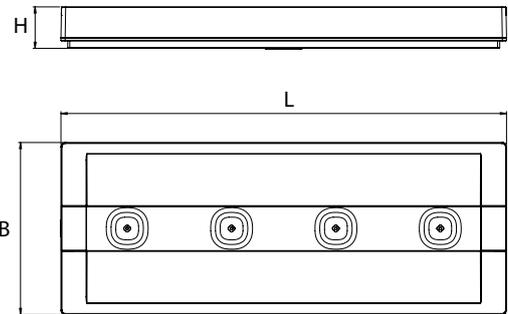
### GENERAL CHARACTERISTICS

<b>Power*</b>	11-24, 24-36w
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-22, EN 1838, EN 50172
<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>Housing</b>	White Polycarbonate, RAL 9003
<b>Optics</b>	Transparent Polycarbonate lenses
<b>Light source</b>	LED

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* 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:** -20°C ÷ +50°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

supplied

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

## 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

## 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 MODULE ***	

\* Equivalent power for comparison with fluorescent lighting fixture

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

\*\*\* Contact the Beghelli sales network for availability

**DALI**  
MODULE  
15038

**LG**  
MODULE  
15036

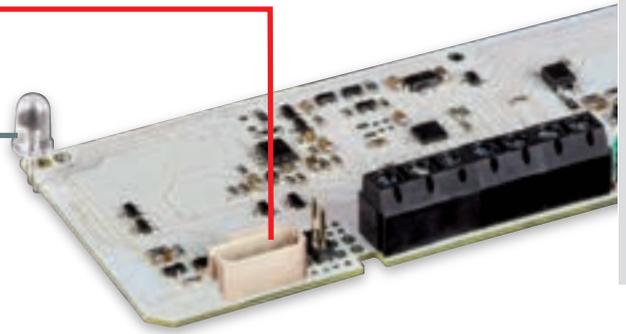
**LGFM**  
MODULE  
15037

MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom** TECHNOLOGY  
Smartphone interface  
to control and set up the system



UP LED

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED ACCESSORY

to be ordered separately

**DIFFUSER 20-30M VISIBILITY DISTANCE**



**4310** EXIT SIGN DIFFUSER FRAME RIGHT/LEFT/ DOWN 20m to be ordered separately

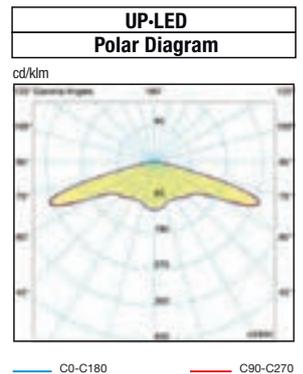
**4311** EXIT SIGN DIFFUSER FRAME RIGHT/LEFT/ DOWN 30m to be ordered separately

**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	Flux** SE lm						Flux SA lm	Power consumpt. max W	Weight kg	Pack single
							1h	1,5h	2h	3h	8h					
11-24	<b>4370</b>	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	<b>4371</b>	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	<b>4372</b>	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	<b>4373</b>	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 \*\*\*



### GENERAL CHARACTERISTICS

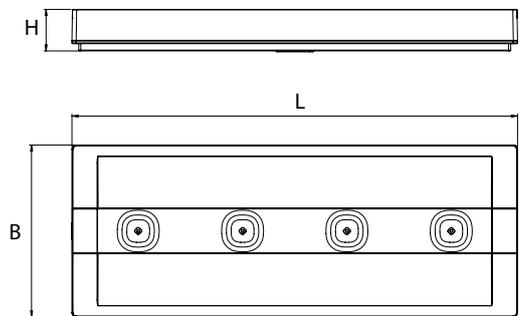
- Power\*** 6-8, 11-24, 24-36w
- Power supply** 230Vac +/- 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE)  
Rest Mode: with optional control gear (cod. 2730)
- Standard** EN 60598-1, EN 60598-2-22, EN 1838, EN 50172
- Protection grade** IP65 - IK07
- Autonomy** 1h, 2h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling, three-phase binary
- Housing** White Polycarbonate, RAL 9003
- Optics** Transparent Polycarbonate lenses
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures

## 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.



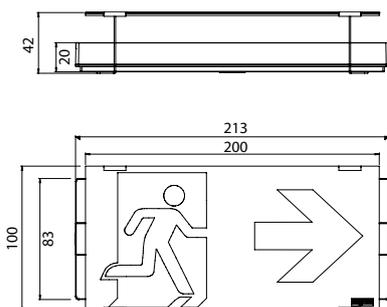
Power* W	• Dimensions (mm) •			DV
	L	B	H	
6-8	213	83	20	20/30
11-24	213	83	20	20/30
24-36	213	83	20	20/30

\* 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

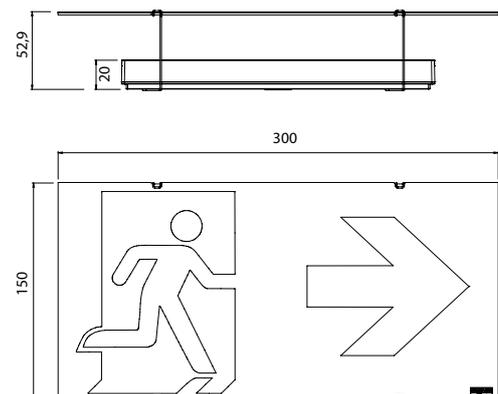


**SAFETY SIGN SCREEN - visibility distance 20 m**

## 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



**SAFETY SIGN SCREEN - visibility distance 30 m**

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED ACCESSORY

to be ordered separately

**DIFFUSER 20-30M VISIBILITY DISTANCE**



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

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

**THREE-PHASE BINARY MOUNTING**



**4319** THREE-PHASE BINARY KIT

to be ordered separately



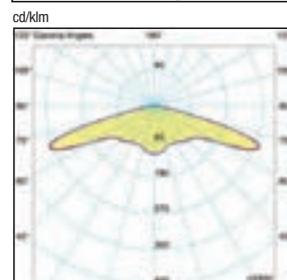
**Red warning LED:**  
**BATTERY**  
**MALFUNCTION**

**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).

**UP•LED**  
**Polar Diagram**



— C90-C180 — C90-C270

**BCS**

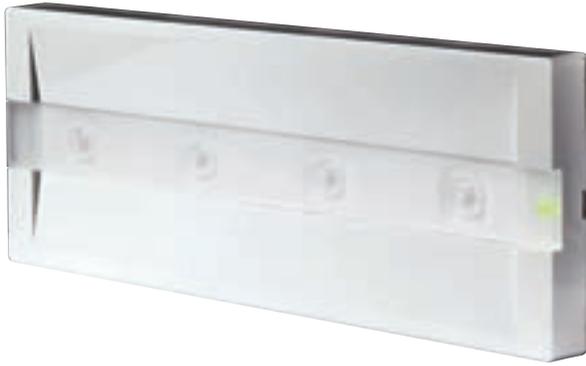
**Battery Control System**

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

\* Indicative power for comparison with fluorescent tube fixtures

# UP•LED 824

## LED Emergency



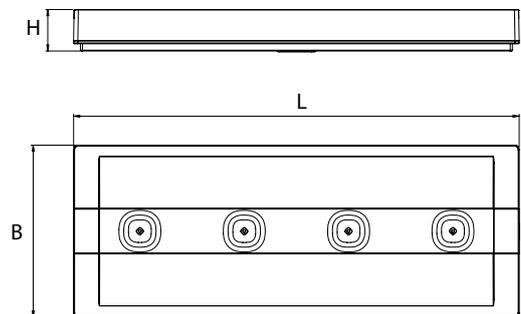
### GENERAL CHARACTERISTICS

<b>Power*</b>	24W (S-M-L)
<b>Power supply</b>	120Vac +/- 10% 60Hz 230Vac +/- 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE) Rest Mode: with optional control gear (cod. 2730)
<b>Standard</b>	EN 60598-1, EN 60598-2-22, EN 1838, EN 50172
<b>Protection grade</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

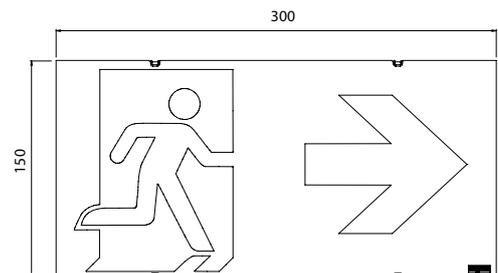
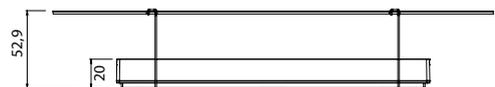
\* Indicative power for comparison with fluorescent tube fixtures

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.



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

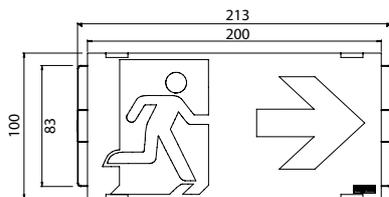
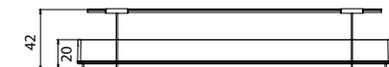


**SAFETY SIGN SCREEN - visibility distance 30 m**

## 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



**SAFETY SIGN SCREEN - visibility distance 20 m**

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED ACCESSORY

*to be ordered separately*

**DIFFUSER 20-30M VISIBILITY DISTANCE**



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

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

**THREE-PHASE BINARY MOUNTING**



**4319** THREE-PHASE BINARY KIT

*to be ordered separately*

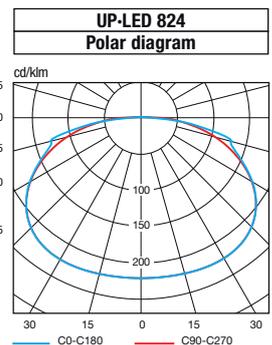


**Red warning LED:**  
**BATTERY**  
**MALFUNCTION**

**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).



**BCS**

**Battery Control System**

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

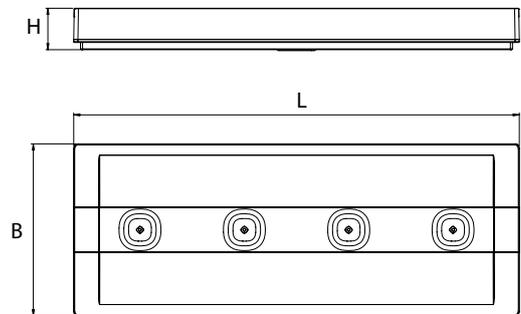


Emergency lighting fixture characterized by great flexibility of use. Less than 20mm high, offering an innovative aesthetic impact. Compactness, high performance, mounting flexibility and high protection degree make the product ideal for any type of installation. Available in non-maintained SE and maintained 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)  
Not maintained (SE with Rest Mode)
- Standard** EN 60598-1, EN 60598-2-22, EN 1838, EN 50172
- Protection degree** IP42 - IP65 optional
- Protection mechanical impacts** IK07
- Autonomy** 1h
- Working temperature** 0°C ÷ +40°C
- Mounting** wall, ceiling
- Housing** Polycarbonate, white RAL 9003
- Lens** transparent Polycarbonate
- Light source** LED

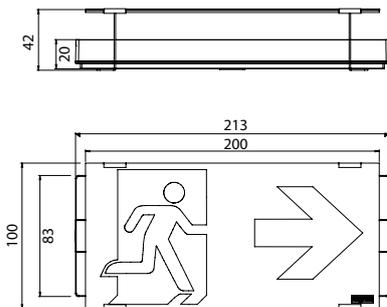


• Dimensions (mm) •				
L	B	H	DV	
213	83	20	20/30	

## Accessories

to be ordered separately

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

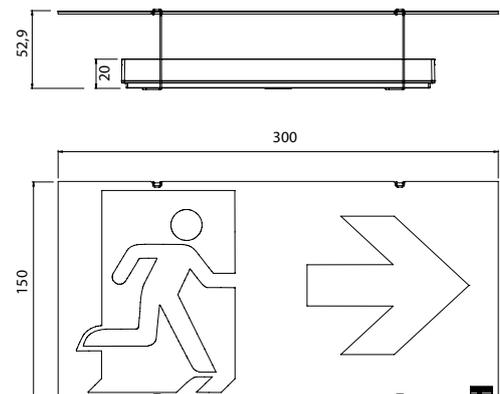


**SAFETY SIGN SCREEN - visibility distance 20 m**

## Accessories

supplied

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



**SAFETY SIGN SCREEN - visibility distance 30 m**

**WALL MOUNTING**



**SPIRIT LEVEL**



**MOUNTING IP65 WITH CONNECTION COUPLING**



**4318** IP65 UP LED ACCESSORY

to be ordered separately

**SIGN DIFFUSER VISIBILITY 20M**

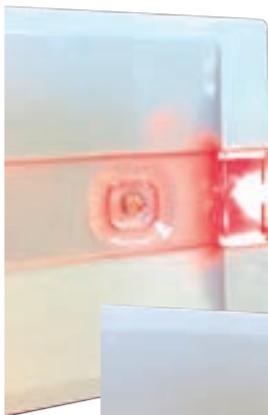


**4310** single sided screen with left/right/down arrows 20m to be ordered separately

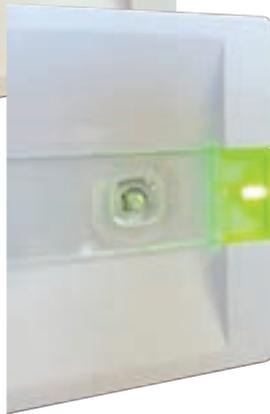
**SIGN DIFFUSER VISIBILITY 30M**



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



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

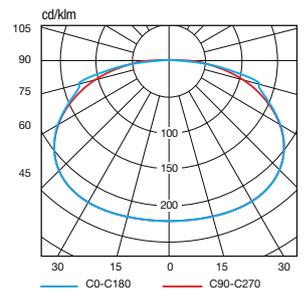


**Green warning LED:**  
**FIXTURE**  
**FULLY EFFICIENT**

**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).

**UP-LED LITE**  
**Polar Diagram**



**BCS**

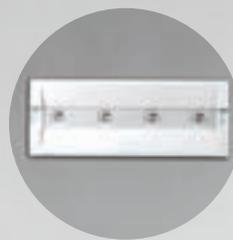
**Battery Control System**

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

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



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

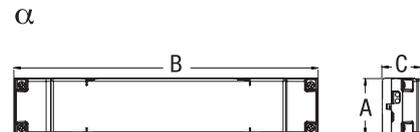
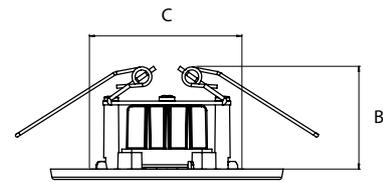
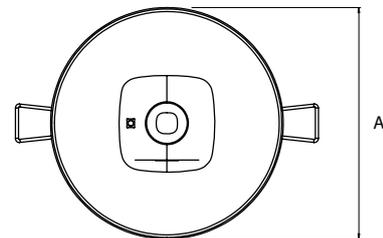
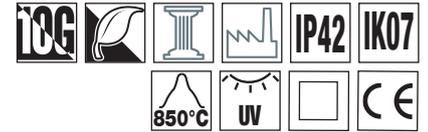
## LED Emergency



### GENERAL CHARACTERISTICS

- Power\*** 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE)
- Standard** EN 60598-1, EN 61347-2-7, EN60598-2-22, EN 61347-2-13, EN 50172, EN 1838, EN 60598-2-2
- Protection grade** IP42, IK07
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** recessed
- Control Gear** Independent separate emergency controlgear with inner rechargeable battery
- Housing** Polycarbonate white RAL 9003
- Optics** lenses in highly transparent Polycarbonate
- Heat sink** Graphite-charged polyamide
- Springs** C72 Stainless steel
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



INVERTER AND BATTERIES

## Lenses and covers

supplied

Order code	Description
-	LUNGALUCE - WIDE LIGHT BEAM FOR CORRIDORS
-	LARGALUCE - SYMMETRIC LIGHT BEAM
-	ALTALUCE - SPOT LIGHT BEAM

## System Modules

to be ordered separately

Order code	Description
<b>15036</b>	LG MODULE <span style="float: right; background-color: green; color: white; padding: 2px;">LG</span>
<b>15037</b>	LGFM MODULE <span style="float: right; background-color: green; color: white; padding: 2px;">LGFM</span>
<b>15038</b>	DALI MODULE ***

\*\*\* Contact the Beghelli sales network for availability

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

\* 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:** -20°C ÷ +50°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
------	--------

**DALI**  
MODULE  
15038

**LG**  
MODULE  
15036

**LGFM**  
MODULE  
15037

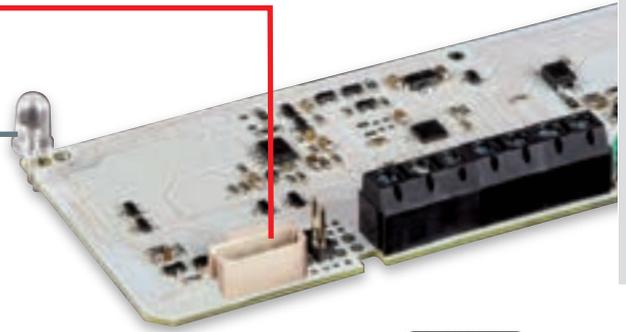
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED



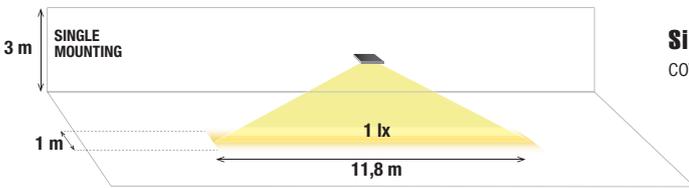
Smartphone interface  
Smartphone interface to control and set up the system



UP LED

## Lungaluce - wide light beam lens corridors, escape routes

lens efficiency 87%



### Single mounting

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

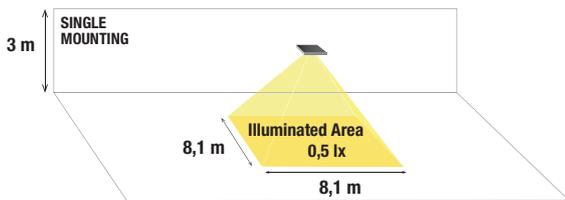
### Multiple mounting, fixture centre distance 13 m

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



## Largaluce - symmetric light beam main areas

lens efficiency 92%



### Single mounting

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

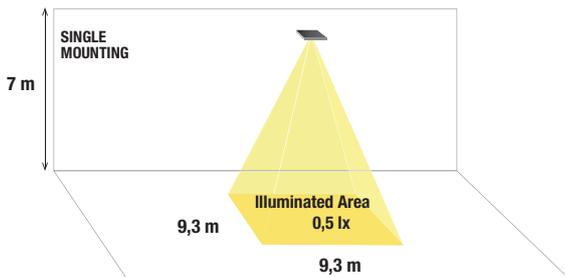
### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



## Altaluce - spot light beam high ceiling, obstacles, extinguishers

lens efficiency 85%



### 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



opticom  
TECHNOLOGY

W*	Order code	Description	Model	Autonomy	Battery	N° LED	1h	1,5h	Flux** SE lm					Flux SA lm	Absorption maxW	Weight kg	Pack single
									2h	3h	8h	25	150				
24	4390	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	4391	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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beghelli sales network for availability



# UP•LED Multi

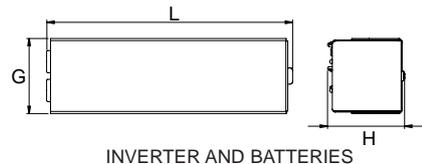
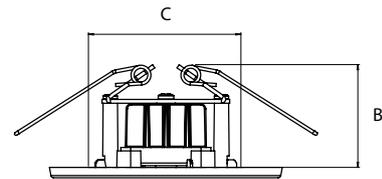
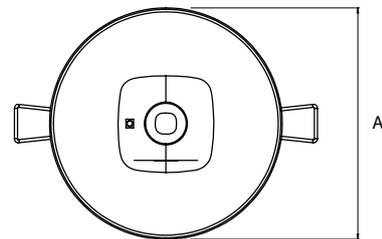
## LED Emergency Multivoltage

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: LUNGALUCE for corridors and escape routes, LARGALUCE with a symmetric light beam for main areas, and ALTALUCE for high ceilings or to light spot obstacles or extinguishers.

### GENERAL CHARACTERISTICS

- Power \*** 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Not Maintained (SE), Rest Mode: with optional control device (cod. 2730)
- Standard** EN 60598-1, EN 61347-2-7, EN60598-2-22, EN 61347-2-13, EN 50172, EN 1838, EN 60598-2-2
- Protection grade** IP42, IK07
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** recessed
- Control Gear** Independent separate emergency controlgear with inner rechargeable battery
- Housing** Polycarbonate white RAL 9003
- Lens** High-transparency Polycarbonate
- Heat sink** Graphite-charged polyamide
- Springs** C72 Stainless steel
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



INVERTER AND BATTERIES

### Lenses and covers

supplied

Order code	Description
-	LUNGALUCE - WIDE LIGHT BEAM FOR CORRIDORS
-	LARGALUCE - SYMMETRIC LIGHT BEAM
-	ALTALUCE - SPOT LIGHT BEAM

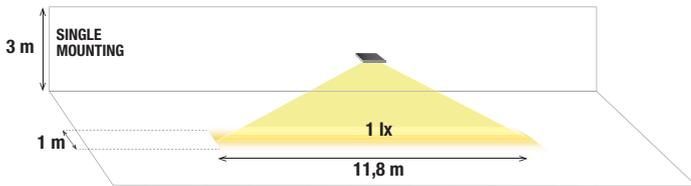
Power* W	• Dimensions (mm) •						Lamp
	A	B	C	L	G	H	
24	90	40	60	200	46	43	1 LED

\* Indicative power for comparison with fluorescent tube fixtures

# Emergency light calculation on the ground

## Lungaluce - wide light beam lens corridors, escape routes

lens efficiency 87%

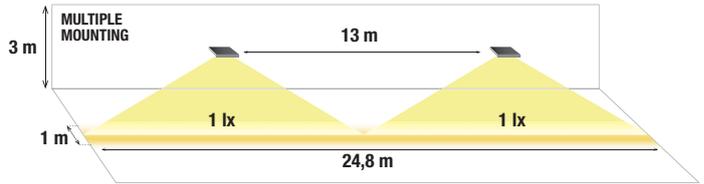


### Single mounting

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

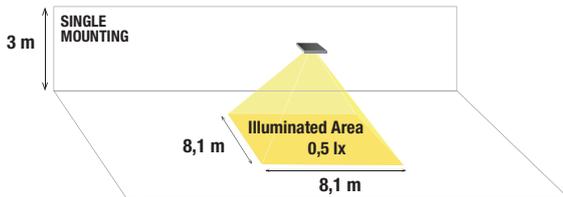
### Multiple mounting, fixture centre distance 13 m

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



## Largaluce - symmetric light beam main areas

lens efficiency 92%

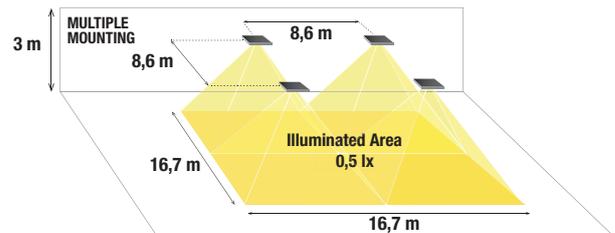


### Single mounting

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

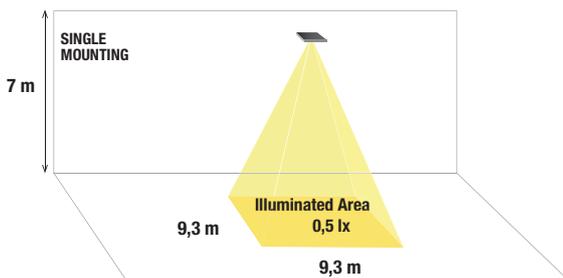
### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



## Altaluce - spot light beam high ceiling, obstacles, extinguishers

lens efficiency 85%

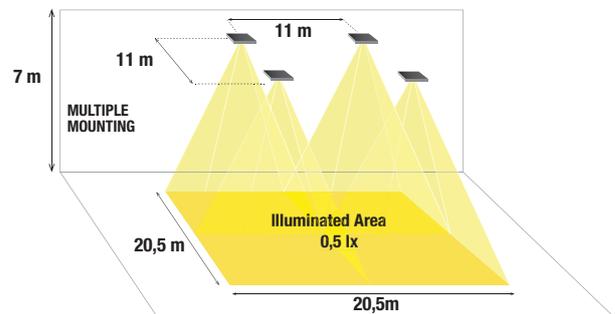


### Single mounting

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



## BCS

Battery Control System

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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beggelli sales network for availability





### 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.



UP LED



# 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

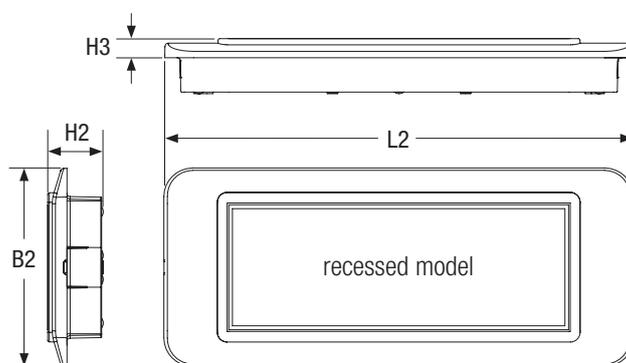
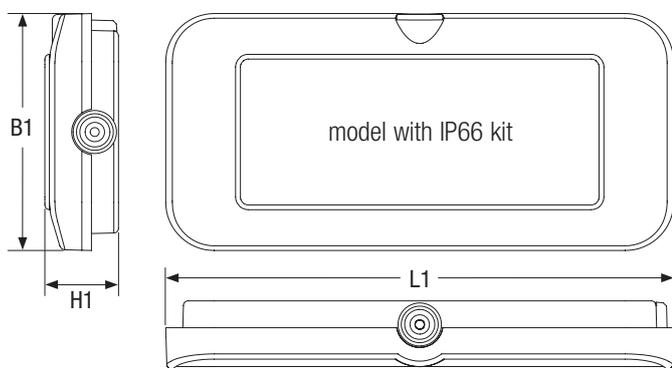
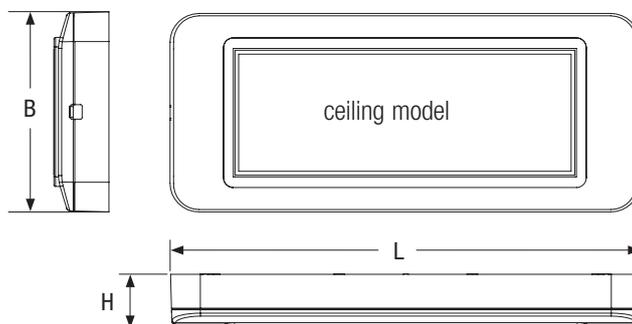
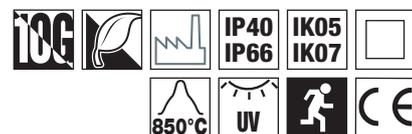
## LED Emergency



### GENERAL CHARACTERISTICS

- Power\*** 8, 11, 24, 36 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172
- Protection grade** IP40 - IK05, IP66 - IK07 (additional protective kit)
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** wall, ceiling, recessed, suspended ceiling, wall suspended
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Diffuser** Transparent Polycarbonate
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



Power * W	• Dimensions (mm) •									DV Diffuser	DV 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

**DALI**  
MODULE  
15038

**LG**  
MODULE  
15036

**LGFM**  
MODULE  
15037

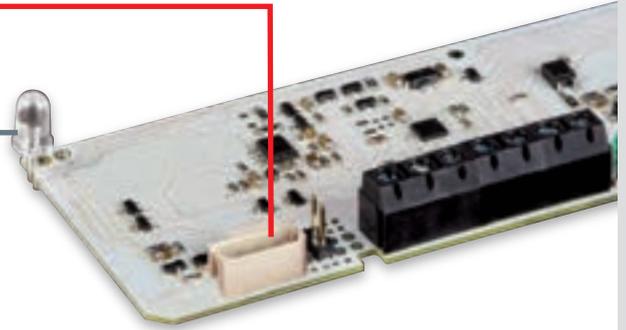
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
Smartphone interface to control and set up the system



COMPLETA

## Accessories

supplied

Order code	Description
4278	ADHESIVE 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 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:** -20°C ÷ +50°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	EXIT SIGN DIFFUSER (Left/right arrow)
4268	EXIT SIGN DIFFUSER (down arrow)
4269	ADHESIVE LEFT RIGHT DOWN

## AT



**opticom**  
TECHNOLOGY

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm					Flux SA lm	Power consump. max W	Weight kg	Pack single
							1h	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 \*\*\*

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beghelli sales network for availability

**WALL MOUNTING**



- NO ACCESSORY NEEDED

**CEILING MOUNTING**



- NO ACCESSORY NEEDED

**RECESSED MOUNTING**



**3733** RECESSED BOX

supplied

**RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD**

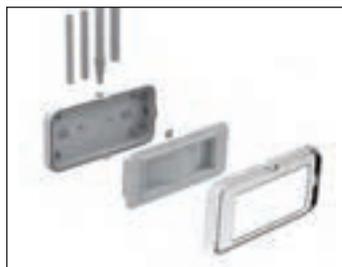


recess hole: 279x94 mm

**4266** SUSPENDED CEILING BRACKET

to be ordered separately

**KIT IP66**



**4112** KIT IP66 COMPLETA LED

to be ordered separately

**WALL SAFETY SIGN**



**4278** ADHESIVE 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

# All the ways to monitor Completa LED

The same Device can operate as Autotest, Logica, Logica FM or DALI



All the Opticom Luminaries are Autotest. Using App on Mobile is possible to change settings, to perform tests, to collect informations about status and errors



## Logica

via Bus

The Luminaries are controlled and monitored via bus



## Logica Wireless

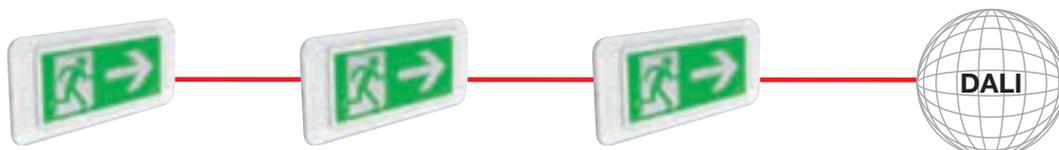
LGFM

The Luminaries are controlled and monitored without any kind of bus, using a wireless connection



## DALI

The Luminaries are 100% DALI and they can be interfaced in DALI



# 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-side 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-side 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** Maintained (SA), Not Maintained (SE)

**Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172

**Protection grade** IP40 - IK05, IP66 - IK07 (additional protective kit)

**Autonomy** 1h, 3h

**Working temp.** 0°C ÷ +40°C

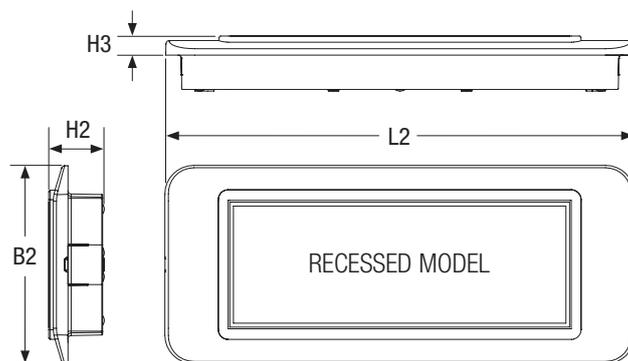
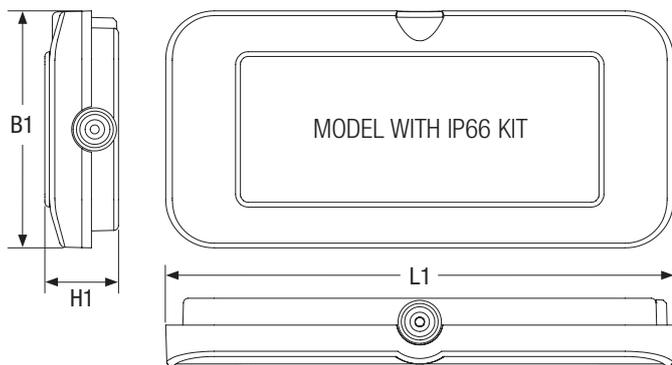
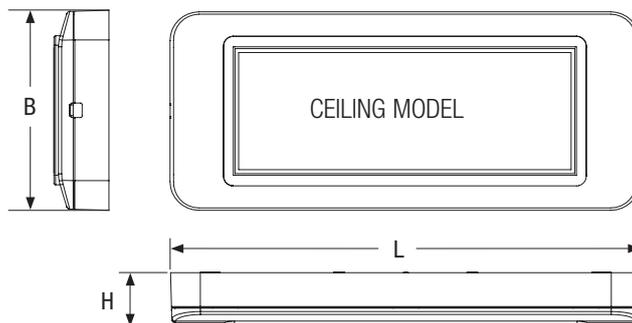
**Mounting** wall, ceiling, recessed, suspended ceiling, wall bracket

**Housing** White Polycarbonate RAL 9003

**Optics** Symmetrical, white

**Diffuser** Transparent Polycarbonate

**Light source** LED



Power * W	• Dimensions (mm) •										DV diffuser	DV 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

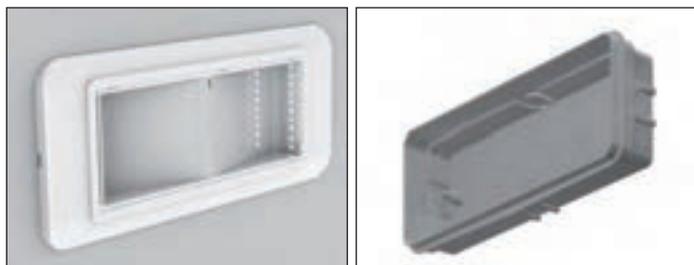
\*Indicative power for comparison with fluorescent tube fixtures

## Accessories

supplied

Order code	Description
<b>4278</b>	ADHESIVE 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

## BCS

to be ordered separately

## Accessories

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>	EXIT SIGN DIFFUSER (Left/right arrow)
<b>4268</b>	EXIT SIGN DIFFUSER (down arrow)
<b>4269</b>	ADHESIVE LEFT RIGHT DOWN
<b>4278</b>	ADHESIVE 3 LEFT RIGHT DOWN

### RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



recess hole: 279x94 mm

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

### WALL MOUNTING



**4278** ADHESIVE 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

## Battery Control System

W*	Order code	Description	Model	N° LED	Autonomy	Battery	Flux** SE lm	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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22





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 the latest generation reflector, Formula 65 LED stands for the most complete range of emergency lighting on market.

The range includes the Granluce model with elevated luminous flux, Extreme with special accessories for installation in extreme temperature environments, the version "deep" for through wiring installation and Autoripara version.

F65 is one of the most famous product of Beghelli range thanks of its innovative, smart and elegant design.

# Formula 65 LED AT Opticom

## LED Emergency



### GENERAL CHARACTERISTICS

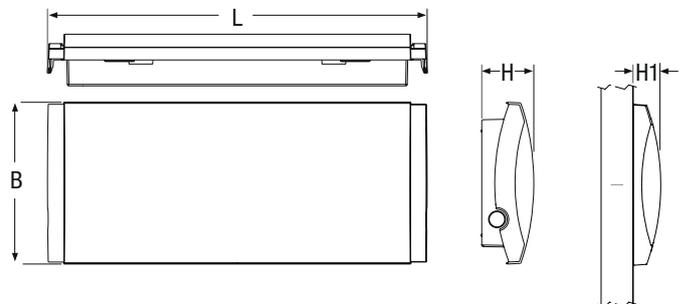
<b>Power*</b>	8, 11, 24 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<b>Protection grade</b>	IP65, IK07
<b>Autonomy Opticom</b>	1h, 1,5h, 2h, 3h, 8h
<b>Working temp.</b>	-20°C ÷ +50°C (Titanium Battery)
<b>Mounting</b>	recessed, wall, ceiling, suspended ceiling, wall bracket
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	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 AT Opticom 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 diffuser 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 RECESSED 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 luminous flux.



## Accessories

supplied

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

Power* 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 lighting fixture

## 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 MODULE ***	

\*\*\* Contact the Beghelli sales network for availability

## Accessories

to be ordered separately

Order code	Description
<b>19040</b>	RECESSED 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

**DALI  
MODULE**  
15038

**LG  
MODULE**  
15036

**LGFM  
MODULE**  
15037

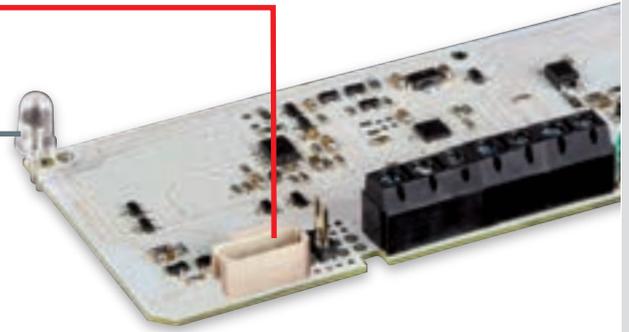
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
Smartphone interface to control and set up the 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:** -20°C ÷ +50°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	Flux** SE lm						Flux SA lm	Power consump. max W	Weight kg	Pack single
							1h	1,5h	2h	3h	8h					
8	19290	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	19291	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	19292	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	19293	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	19294	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	19295	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	19296	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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beghelli sales network for availability

# Accessories

## WALL INSTALLATION WITH SPIRIT LEVEL

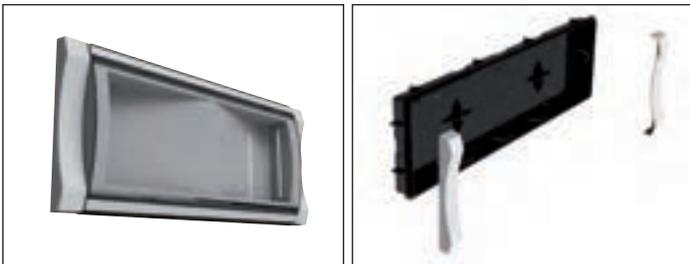


- SPIRIT LEVEL

## CEILING MOUNTING



## RECESSED MOUNTING



**19040** RECESSED BOX + FRAMES F65

to be ordered separately

## RECESSED MOUNTING ON SUSPENDED CEILING



**19041** CEILING BRACKET F65

to be ordered separately

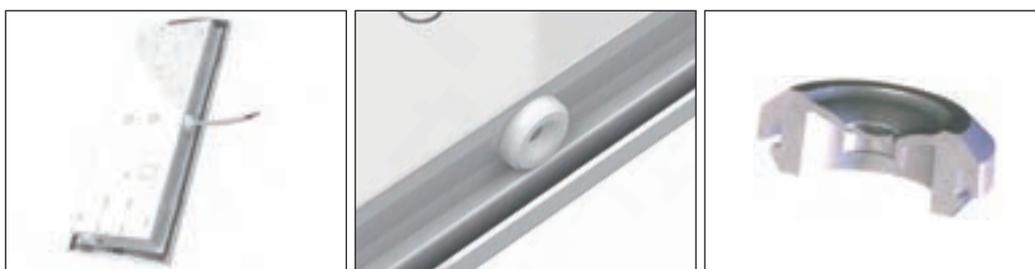
## ADAPTER GLAND



- PG16/PG20 ADAPTER

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** DIFFUSER 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** DIFFUSER SUSPENDED WITH DOWN ARROWS *to be ordered separately*

**EXIT SIGNS (Visibility Distance VD in table)**



**19044** ADHESIVE RIGHT, LEFT, DOWN

supplied

# Formula 65 Deep Opticom

## LED Emergency



### GENERAL CHARACTERISTICS

<b>Power*</b>	8, 11, 24W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<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>	recessed, wall, ceiling, wall bracket, suspended ceiling
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	LED

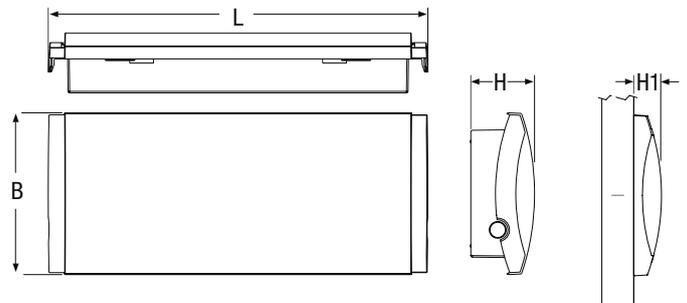
\* Indicative power for comparison with fluorescent tube fixtures

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 diffuser 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.



## Accessories

supplied

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

Power* 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 lighting fixture

## 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 MODULE ***

\*\*\* Contact the Beghelli sales network for availability

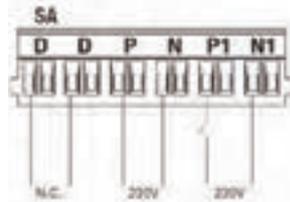
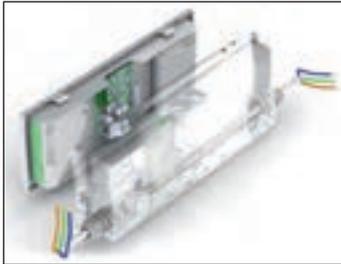
## Accessories

to be ordered separately

Order code	Description
<b>19040</b>	RECESSED 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

# Accessories

## THROUGH-WIRING CABLE



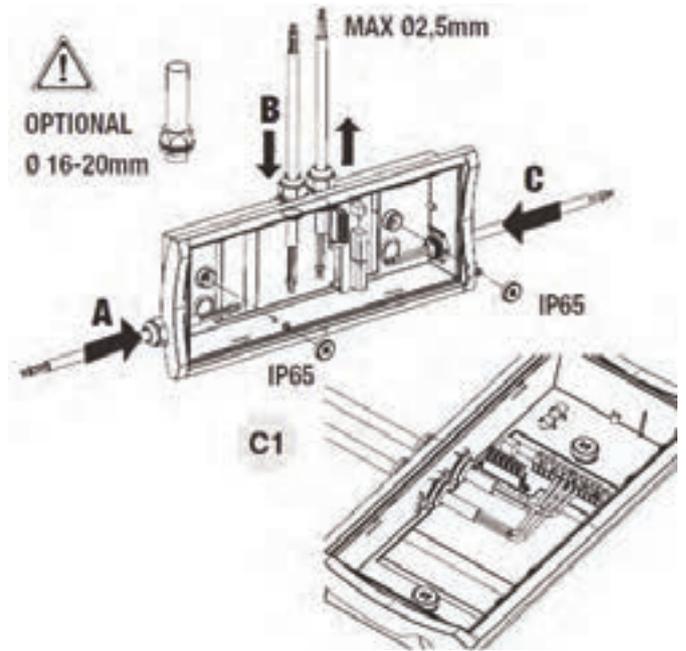
- THROUGH-WIRING CABLE supplied

## CABLE GLAND M20



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

## HOUSING FOR M20 CABLE GLAND



## 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:**  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- 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

## AT



opticom  
TECHNOLOGY

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

LG with System Module integration - order code 15036

LGFM with System Module integration - order code 15037

DALI \*\*\* with System Module - Order code 15038

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beggelli sales network for availability

# Installation accessories

## WALL MOUNTING WITH SPIRIT LEVEL

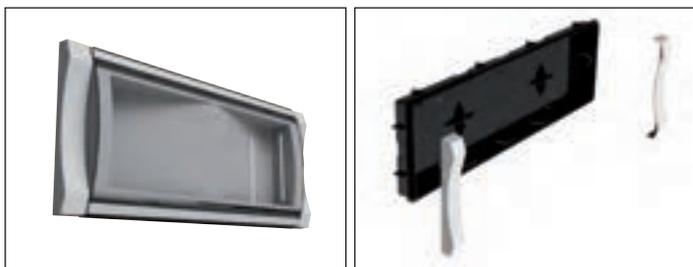


- SPIRIT LEVEL

## CEILING MOUNTING



## RECESSED MOUNTING



**19048** RECESSED 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

**EXIT SIGNS** (Visibility distance VD in table)



- 19044** ADHESIVE RIGHT, LEFT, DOWN supplied



#### GENERAL CHARACTERISTICS

<b>Power*</b>	6, 8, 11, 24 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE) Rest Mode: with optional control device (cod. 2730)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<b>Protection grade</b>	IP65, IK07
<b>Autonomy</b>	1h, 2h, 3h
<b>Working temp.</b>	0°C ÷ +40°C
<b>Mounting</b>	recessed, wall, ceiling, suspended ceiling, wall bracket
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	LED

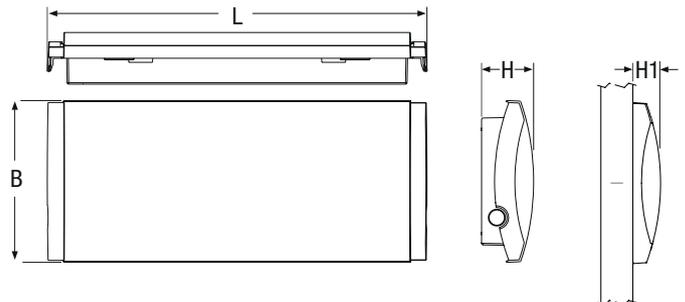
\* Indicative power for comparison with fluorescent tube fixtures

## 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 diffuser 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* 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



- 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

supplied

Order code	Description	Battery
<b>RA01</b>	AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.2Ah)	
<b>RA03</b>	AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah)	



## Accessories

supplied

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

## Accessories

to be ordered separately

Order code	Description
<b>19040</b>	RECESSED 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
<b>19044</b>	ADHESIVE SX DX BS F65

# BCS

## Battery Control System

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

# AT

## Auto Test Ripara

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** AR SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack single	
	8	<b>R0818</b>	F65LED 8W IP65 ATRIPARA SE123H	SE	1-2-3h	NiCd 3.6V 0.75Ah+RA01	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+RA01	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+RA01	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+RA01	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+RA01	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	Flux** SE lm	Flux** AR SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack single	
	8	<b>19234</b>	F65 LED 8W IP65 LG SE 1/2/3H	SE	1-2-3h	NiCd 3.6V 0.75Ah+RA01	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+RA01	12	135/95/78	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+RA01	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+RA01	12	180/125/90	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+RA01	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+RA01	12	315/220/160	280	5.0	0.6	1/12	

# LG-AR Granluce

## Logica Ripara

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** AR SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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	280	4.5	0.6	1/12	

# LGFM-AR

## Logica FM Ripara

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** AR SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack single	
	8	<b>19240</b>	F65 LED 8W IP65 LGFM SE 1/2/3H	SE	1-2-3h	NiCd 3.6V 0.75Ah+RA01	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+RA01	12	135/95/78	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+RA01	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+RA01	12	180/125/90	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+RA01	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+RA01	12	315/220/160	280	5.0	0.6	1/12	

# LGFM-AR Granluce

## Logica FM Ripara

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** AR SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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	280	5.0	0.6	1/12	

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

## SLG

W*	Order code	Description	N° LED	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	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	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

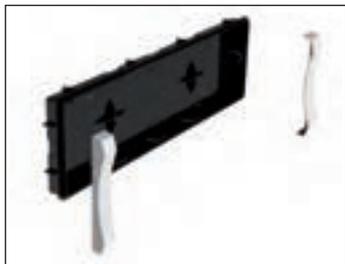


- SPIRIT LEVEL

### CEILING MOUNTING



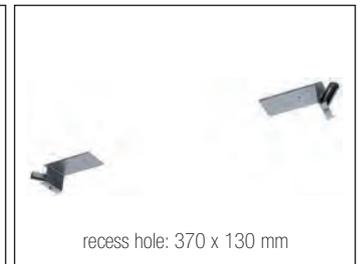
### RECESSED MOUNTING



**19040** RECESSED BOX + F65 FRAMES

supplied

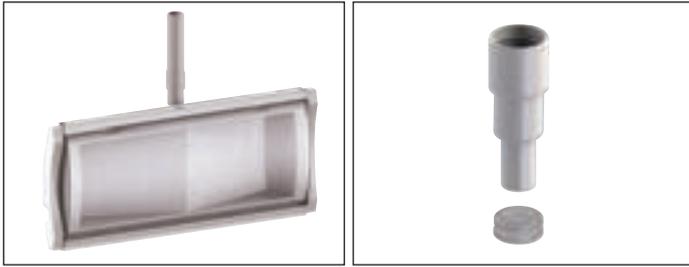
### RECESSED MOUNTING ON SUSPENDED CEILING



**19041** SUSPENDED CEILING BRACKET F65

to be ordered separately

**CABLE GLAND**



- PG16/PG20 ADAPTER 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** DIFFUSER 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** DIFFUSER SUSPENDED WITH DOWN ARROWS to be ordered separately

**EXIT SIGNS** (Visibility distance VD in table)



**19044** ADHESIVE RIGHT, LEFT, DOWN 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)  
**RA03** AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah)

# Formula 65 LED Extreme

## LED Emergency

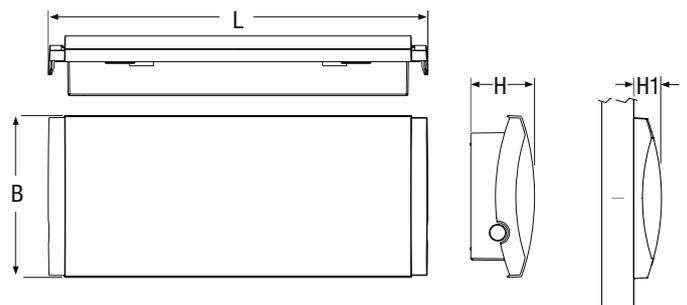
Designed to withstand extreme temperatures as low as -40 °C such as those in cold storage units at high altitudes. The emergency Ice Pack power supply that confers these features is separately supplied and includes an automatic battery heating system that does not degrade with extremely low temperatures. 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>	Maintained (SA), Not Maintained (SE) Rest Mode:with optional control device (cod. 12101)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<b>Protection grade</b>	IP65, 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 ceiling, wall bracket
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	LED

\* Indicative power for comparison with fluorescent tube fixtures



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

\* Equivalent power for comparison with fluorescent lighting fixture

## Accessories

supplied

Order code	Description
-	N°2 CABLE GLAND M20
<b>19044</b>	ADHESIVE 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)	

## Autorigara 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**

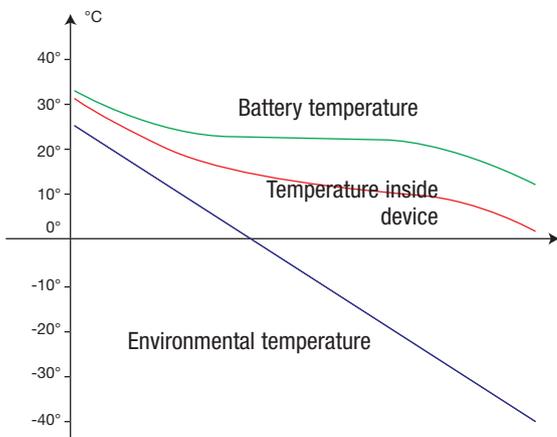
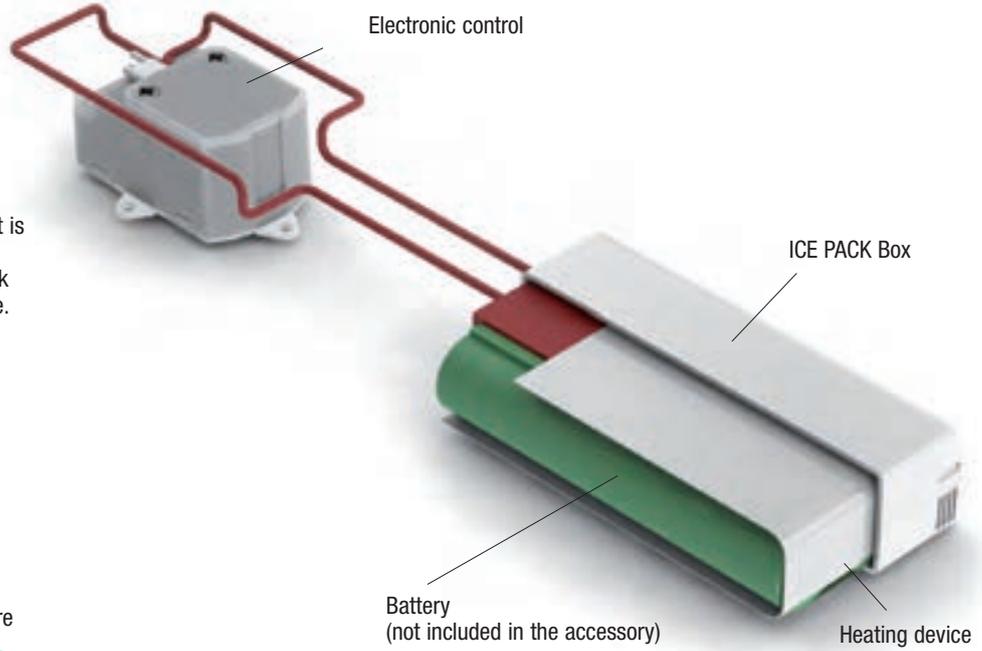
## Accessories

to be ordered separately

Order code	Description
<b>19046</b>	ICE PACK BATTERY
<b>19048</b>	RECESSED BOX + FRAMES F65 Extreme
<b>19049</b>	CEILING BRACKETS 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>	ADHESIVE LEFT RIGHT DOWN F65
<b>12101</b>	REMOTE CONTROL (RM INHIBIT FUNCTION)

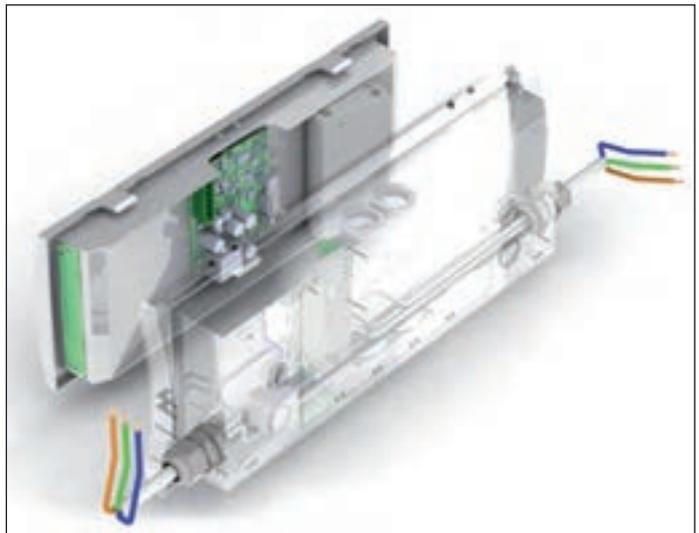


Accessory to maintain warm battery temperature even in working contexts with very low temperatures (-40°C). Ice Pack is controlled through an electronic circuit that is able to maintain a constant battery temperature. The absorption of the Ice Pack depends on the environmental temperature.



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

							Logica Ripara					
W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux AR** SE lm	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

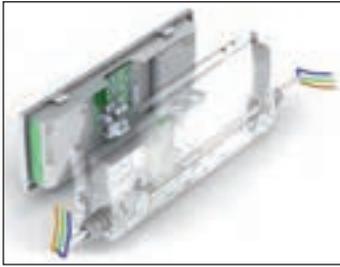
LGFM-AR

							Logica FM Ripara					
W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux AR** SE lm	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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

# Accessories

## THROUGH-WIRING CABLE



- THROUGH-WIRING CABLE 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

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

## CABLE GLAND M20

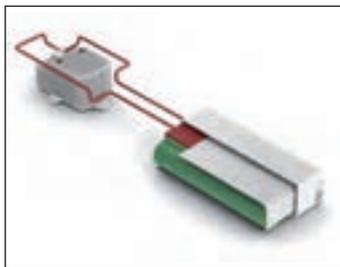


- 2 M20 CABLE GLAND (smooth and corrugated tubes  $\varnothing 16$  e  $\varnothing 20$ ) supplied

## HOUSING FOR M20 CABLE GLAND



## ICE PACK BATTERY



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

# Installation accessories

## WALL MOUNTING WITH SPIRIT LEVEL

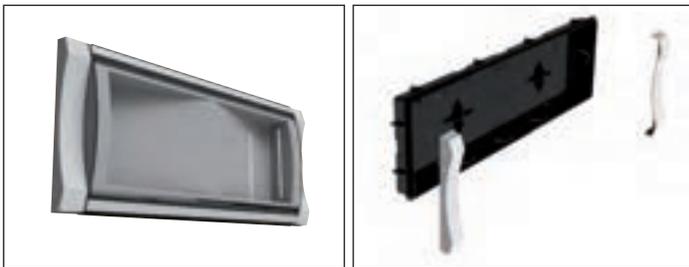


- SPIRIT LEVEL

## CEILING MOUNTING



## RECESSED MOUNTING



**19048** RECESSED BOX + FRAMES F65 EXTREME *to be ordered separately*

## RECESSED INSTALLATION ON SUSPENDED CEILING



mounting diameter: 370 x 130 mm

**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*

## EXIT SIGNS (Visibility distance VD in table)



**19044** ADHESIVE 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.

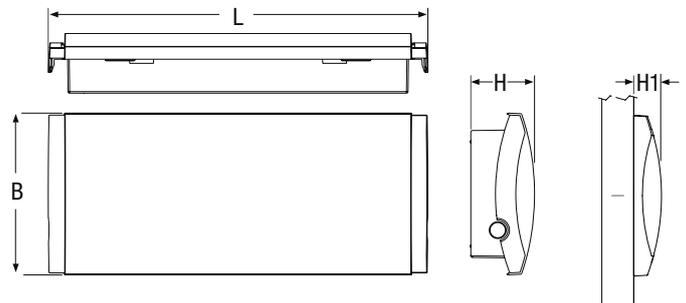
The white polycarbonate body houses a double-reflective optic that in turn integrates two highly efficient LED series (greater than 160 lumen/Watt). The high-transparent polycarbonate diffuser was designed to seal in the optic group so that the device offers a IP65 protection level. The external shell 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>	Maintained (SA), Not Maintained (SE) Rest Mode:with optional control device (cod. 12101)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, EN 62034
<b>Protection grade</b>	IP65, IK07
<b>Autonomy</b>	1h, 2h, 3h
<b>Working temp. SE</b>	0 ÷ 40 °C (Titanium battery)
<b>Mounting</b>	recessed, wall, ceiling, wall bracket, suspended ceiling
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</b>	Transparent Polycarbonate
<b>Light source</b>	LED

\* Indicative power for comparison with fluorescent tube fixtures



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

\* Equivalent power for comparison with fluorescent lighting fixture

## Accessories

supplied

Order code	Description
-	N°2 CABLE GLAND M20
<b>19044</b>	ADHESIVE 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)	

## Autorigara 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>	RECESSED BOX + FRAMES F65 EXTREME
<b>19049</b>	CEILING BRACKETS 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>	ADHESIVE 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

Autotest

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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 LGFM SA 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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

# Installation accessories

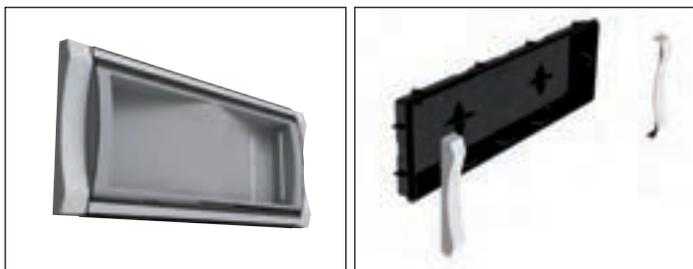
## WALL MOUNTING WITH SPIRIT LEVEL



## CEILING MOUNTING



## RECESSED MOUNTING



## RECESSED INSTALLATION ON SUSPENDED CEILING



**19048** RECESSED 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> | ADHESIVE 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.



# EuroCompleta LED

A single reply to all requests  
When uniformity of signal means security  
about Emergency lighting

A new attainment of versatility,  
single expression of all  
emergency lighting solutions.  
EuroCompleta LED is provided  
with an innovative optic system,  
specially designed with an  
effective downlight which  
illuminates escape routes and  
hazards at the best.

The special optic, that covers the  
light source, grants to avoid any  
glare and provides high uniformity  
and the best visibility of exit sign.

The mechanic design removes  
any doubt about the flexibility of  
this luminaire; available also in  
IP65 version, EuroCompleta LED  
is the solution for any installation  
with different cable entries of  
different dimensions and  
accessories

# EuroCompleta LED

## LED Emergency

Emergency lighting device with innovative optical system that offers a good distribution of the light beam. Possibility to set the unit in SE or SA configuration and select the 1h or 3h autonomy by simply cutting a wire on the electronic board. It consists of a large functional wiring compartment for accommodating 2.5mm conductors and predisposed for wiring through.

Available in IP42 and IP65 versions Wall and ceiling installation and recessed. Prepared for installation with Ø16 and Ø20 tubes.



### GENERAL CHARACTERISTICS

- Power\*** 11,24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE), Rest Mode
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, UNI 11222
- Protection grade** IP65, IP42
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +50°C
- Driver** Electronic Driver
- Mounting** wall, ceiling, recessed, suspended ceiling, electrified track
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Diffuser** Transparent Polycarbonate
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



Power* (W)	• Dimensions (mm) •			Visibility distance
	L	B	H	
11, 24	300	138	55	24m

\* Indicative power for comparison with fluorescent tube lighting

### SIGN DIFFUSER VISIBILITY FLAG 24M



- LABELS AS PER TABLE supplied

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



- LABELS AS PER TABLE supplied

### SUSPENSION MOUNTING



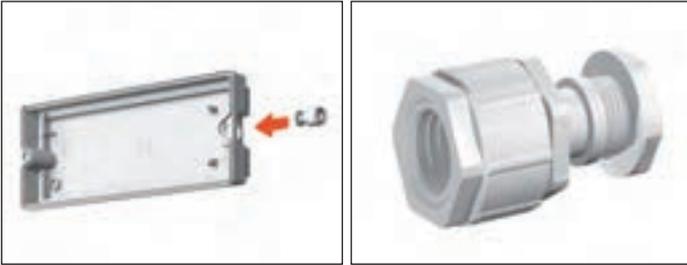
**3723** SUSPENSION HOOKS to be ordered separatel

### ELECTRIFIED TRACK MOUNTING



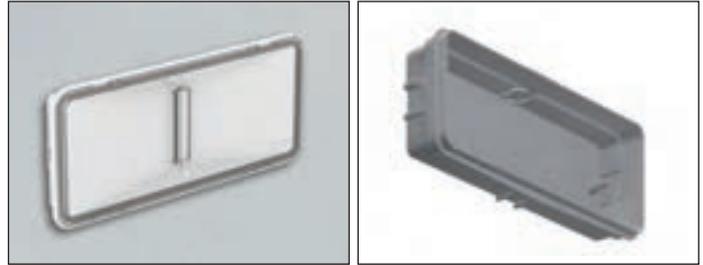
**3723** SUSPENSION HOOKS to be ordered separatel

### Ø 16 OR Ø 20 MOUNTING



**3727** PG16/PG20 CABLE GLAND supplied

### RECESSED MOUNTING



**2742** IP 65 RECESS BOX - 6, 11 W supplied

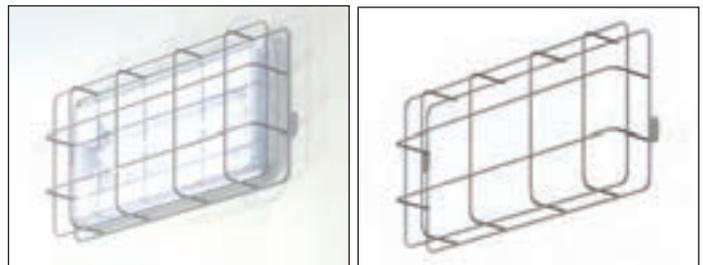
### RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



**2751** FALSE CEILING BRACKETS to be ordered separatel

Foro incasso 6-11W: 282x122 mm  
Foro incasso 8-24W: 410x160 mm

### PROTECTION GRID



**3907** PROTECTIVE GRID to be ordered separatel

## AT

W*	Order code	Description	Model	Autonomy	Battery	N° LED	' Flux** 1h SE lm	Flux** 1h SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack single
24	<b>4114</b>	EUROCOMP LED IP42 ATSESA 1/3H LI-FE	SE/SA	1/3h	LiFe 3,2V 1,5Ah	16	200	70	200	4	0,8	1/12
24	<b>4116</b>	EUROCOMP LED IP65 ATSESA 1/3H LI-FE	SE/SA	1/3h	LiFe 3,2V 1,5Ah	16	200	70	200	4	1	1/12

## BCS

### Battery Control System

W*	Order code	Description	Model	Autonomy	Battery	N° LED	' Flux** 1h SE lm	Flux** 1h SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack single
24	<b>4113</b>	EUROCOMP LED IP42 SESA 1/3H LI-FE	SE/SA	1/3h	LiFe 3,2V 0,5Ah	16	120	40	120	2,5	0,8	1/12
24	<b>4115</b>	EUROCOMP LED IP65 SESA 1/3H LI-FE	SE/SA	1/3h	LiFe 3,2V 0,5Ah	16	120	40	120	2,5	1	1/12

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22







# Aestetica LED

The simplicity  
Recessed, wall  
meet the elegance



The AESTETICA led has a simple and unique shape but it's immediatly remarked as an innovative fitting. The AESTETICA LED design let it to be installed in every kind of modern and classic contexts. 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 of 2 optics in order to spread light in the best way. 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.

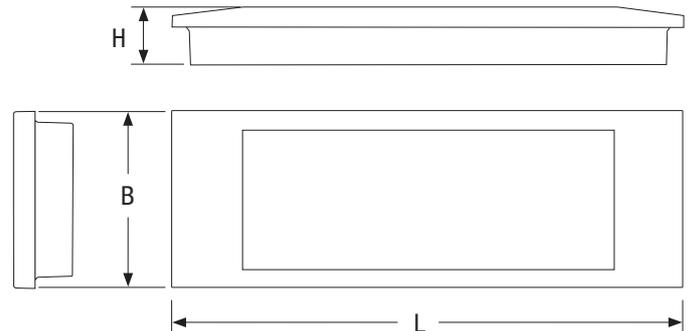
Photometric file shows as the flux is optimized both for wall and ceiling installation.



### GENERAL CHARACTERISTICS

<b>Power*</b>	6, 8, 11, 24 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172
<b>Protection grade</b>	IP40, IK05
<b>Autonomy</b>	1h, 3h
<b>Working temp.</b>	0°C ÷ +40°C
<b>Mounting</b>	wall, ceiling, recessed, suspended ceiling, wall suspended
<b>Housing</b>	White Polycarbonate RAL 9003
<b>Optics</b>	Symmetrical, white
<b>Diffuser</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

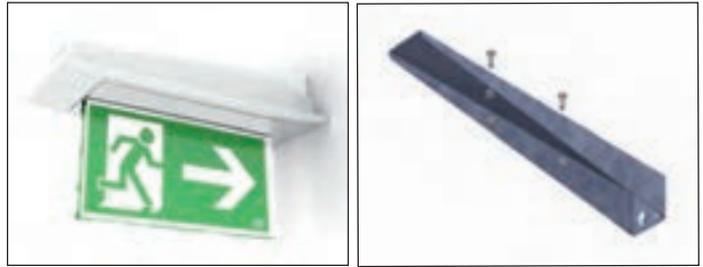
Order code	Description
3733	RECESSED BOX
4269	SIGN SCREENS
4266	FALSE CEILING BRACKET
4265	WALL BRACKET FOR FLAG INSTALLATION
4267	FLAG SCREEN R/L
4268	FLAG SCREEN DOWN

### FLAG MOUNTING ON CEILING OR PLASTERBOARD (VD 20M)



recess hole: 279x94 mm

### WALL FLAG MOUNTING (VD 20M)



<b>4266</b>	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

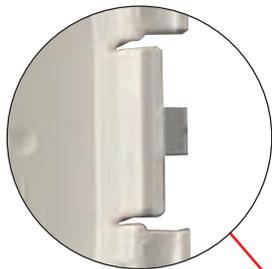
<b>4265</b>	WALL BRACKET FOR FLAG MOUNTING	to be ordered separately
<b>4267</b>	FLAG SCREEN R/L	to be ordered separately
<b>4268</b>	FLAG SCREEN DOWN	to be ordered separately

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

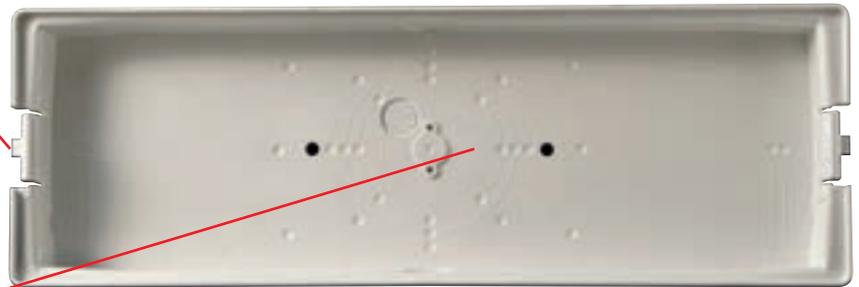


<b>4269</b>	SIGN SCREENS	to be ordered separately
-------------	--------------	--------------------------

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

## BCS

### Battery Control System

W*	Order code	Description	Model	Autonomy	Battery	N° LED	' Flux** SE lm	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

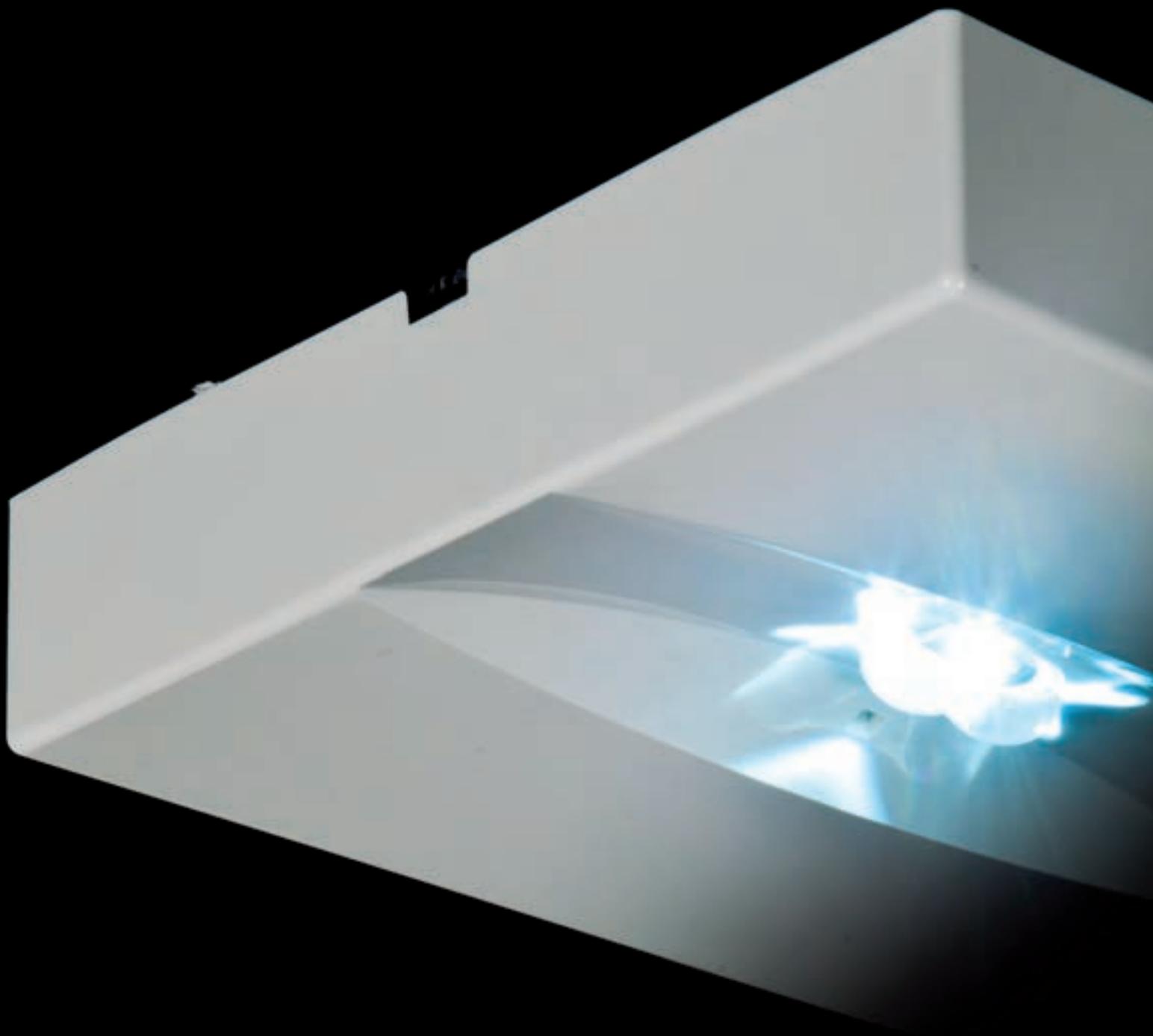
\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimun flux guaranteed according to EN 60598-2-22

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

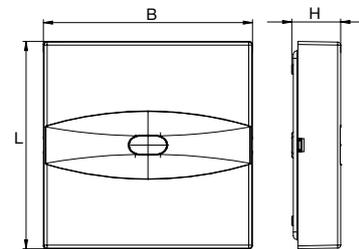
The most beautiful lamp  
integrated Inverter and battery  
is the one that is not seen

A revolutionary concept among architecture and lighting:  
"The most beautiful lamp is the one that is not seen".  
There are countless examples of the perfect example 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 completely changed by choosing from the various lenses supplied.

# Lungalargaluce LED Opticom

## LED Emergency

High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, Lungaluce lens is used for corridors and escape routes, Largaluce is a symmetric lens for main areas and Diffusaluce is a symmetric lens used for wall mounting. Each lens is supplied with a suitable white Polycarbonate housing. High-efficiency Led, housing with recessed heat sink in graphite-charged polyamide. Available in SE and SA versions, the operating autonomy (1 hr, 1.5hrs, 2 hrs, 3 hrs, 8 hrs) can be selected on each model, changing the luminous flux.



Power* W	• Dimensions (mm) •		
	L	B	H
24	137	137	32

\* Indicative power for comparison with fluorescent tube fixtures

### GENERAL CHARACTERISTICS



- Power\*** 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** SE / SA / PS ( Maintained / Not Maintained / public performance)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 50172, CEI EN 62471
- Protection grade** IP40 (IP42 with accessory 19389), IK07
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** ceiling, wall
- Housing** Polycarbonate white RAL 9010
- Optics** lenses in highly transparent PMMA
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures

## Lenses

supplied

Order code	Description
-	LUNGALUCE - wide light beam for corridors and escape routes
-	LARGALUCE - symmetric light beam for main area - antipanic light - ceiling mounting
<b>19346</b>	DIFFUSALUCE - symmetric light beam for main area - antipanic light - wall mounting
<b>19345</b>	ALTALUCE - spot light beam - ceiling mounting (OPTIONAL)

## AT

Autotest

W*	Order Code	Description	Version	Autonomy	Battery	n° LEDs	Flux** SE lm	Flux SA lm	Absorption W	Weight kg	Pack
24	<b>19328</b>	L.LARG DWCL AT OPT 24W SA LTO	SE/SA/PS	1h, 1,5h, 2h, 3h, 8h	2xLTO 7.2V 0,5Ah	1	250	-	1	0,6	6

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

## 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 MODULE ***

\*\*\* Contact the Beghelli sales network for availability

## Titanium Battery



- 1** Withstands extreme operating temperatures: -20°C ÷ +50°C
- 2** LONG LIFE with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 3** MAXIMUM SAFETY: unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

**DALI  
MODULE**  
15038

**LG  
MODULE**  
15036

**LGFM  
MODULE**  
15037

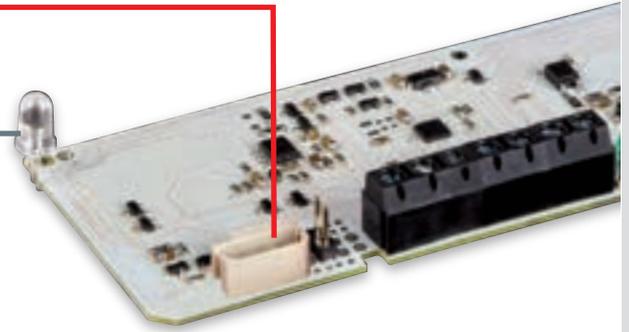
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
Smartphone interface to control and set up the system



### 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.

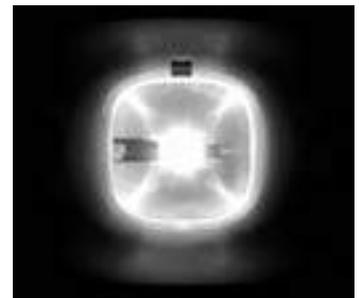
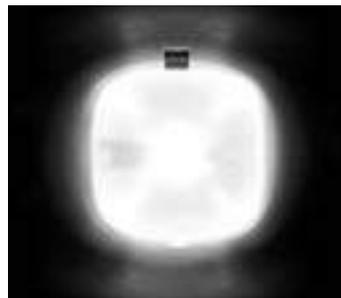
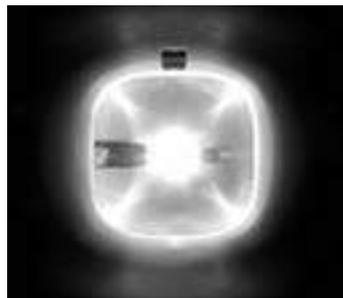
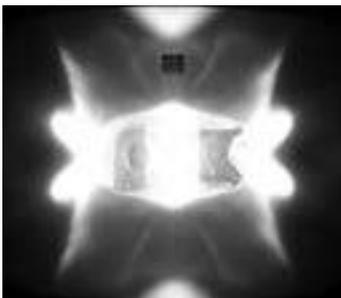
In the case of the Lungalargaluce LED Ceiling, the dissipating element is the housing of the fixture which, to optimize its efficiency, is made completely of die-cast aluminium.

### 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
ALTALUCE	1	Covers a surface of 12,4x12,4 m with at least 0.5lux with the exception of a 0.5 m perimeter
	2	Centre distance 14,4 m covering a surface of 26,8x26,8 m with at least 0.5lux with the exception of a 0.5 m perimeter



# Lungalargaluce LED

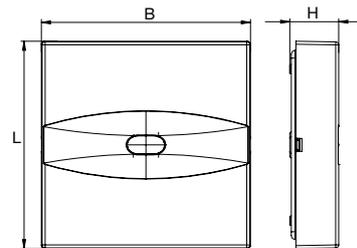
## LED Emergency

High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, Lungaluce lens is used for corridors and escape routes, Largaluce is a symmetric lens for main areas and Diffusaluce is a symmetric lens used for wall mounting. 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>	Maintained (SA) / Not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 50172, CEI EN 62471
<b>Protection grade</b>	IP40 (IP42 with accessory 19389), IK07
<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



Power* W	• Dimensions (mm) •		
	L	B	H
24	137	137	32

\* Indicative power for comparison with fluorescent tube fixtures

## Lenses

supplied

Order code	Description
-	LUNGALUCE - wide light beam for corridors and escape routes
-	LARGALUCE - symmetric light beam for main area - antipanic light - ceiling mounting
<b>19346</b>	DIFFUSALUCE - symmetric light beam for main area - antipanic light - wall mounting
<b>19345</b>	ALTALUCE - spot light beam - ceiling mounting (OPTIONAL)

## AT

Autotest

W*	Order Code	Description	Version	Autonomy	Battery	n° LEDs	Flux** SE lm	Flux SA lm	Absorption W	Weight kg	Pack
24	<b>19321</b>	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	<b>19322</b>	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	<b>19323</b>	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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

## 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 (AC 230V 50 Hz - DC 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

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

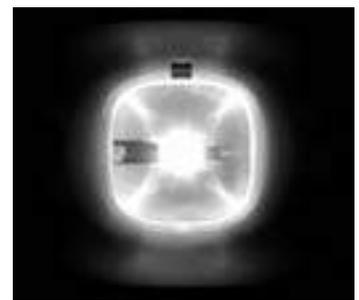
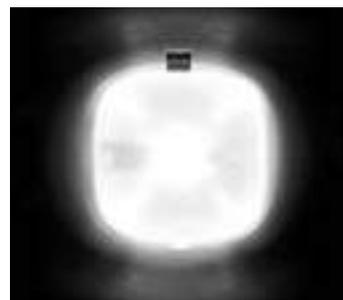
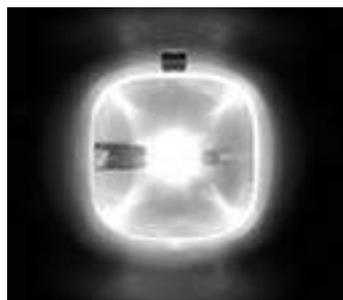
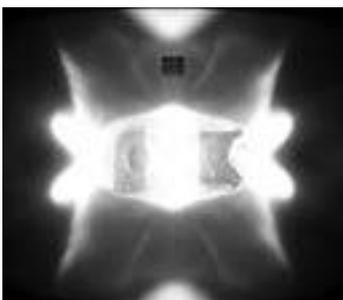
In the case of the Lungalargaluce LED Ceiling, the dissipating element is the housing of the fixture which, to optimize its efficiency, is made completely of die-cast aluminium.

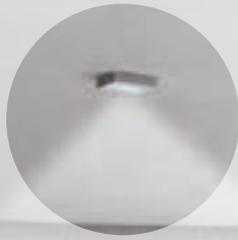
### Compactness and easy to install

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
ALTALUCE	1	Covers a surface of 12,4x12,4 m with at least 0.5lux with the exception of a 0.5 m perimeter
	2	Centre distance 14,4 m covering a surface of 26,8x26,8 m with at least 0.5lux with the exception of a 0.5 m perimeter





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.





LUNGLA AREA  
LUGGE LED



# Lungalargaluce LED

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

A revolutionary concept among architecture and lighting:  
"The most beautiful lamp is the one that is not seen".  
There are countless examples of the perfect example 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 completely changed by choosing from the various lenses supplied.

# Lungalargaluce LED Opticom

## Recessed LED Emergency



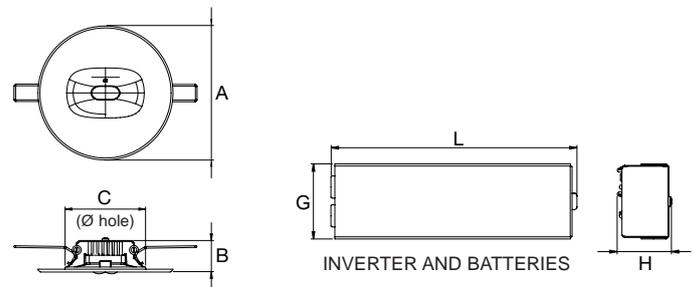
### GENERAL CHARACTERISTICS

<b>Power**</b>	24 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA) / Not Maintained (SE)
<b>Standard</b>	EN 50172, EN 60598-1, EN 60598-2-2, EN 60598-2-22, CEI EN 62471
<b>Protection grade</b>	IP42, IK07
<b>Autonomy</b>	1h, 1,5h, 2h, 3h, 8h selectable with DIP switch in the LG and LGFM versions
<b>Working temp.</b>	-20°C ÷ +50°C (Titanium Battery)
<b>Mounting</b>	suspended ceiling, recessed
<b>Control Gear</b>	Independent separate emergency controlgear with inner rechargeable battery
<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

High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, supplied for both the Lungaluce and the Largaluce 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.

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.



Power** 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

## Lenses

supplied

Order code	Description
-	LUNGALUCE - wide light beam for corridors and escape routes
-	LARGALUCE - symmetric light beam for main area - antipanic light - ceiling mounting
<b>19346</b>	DIFFUSALUCE - symmetric light beam for main area - antipanic light - ceiling mounting (OPTIONAL)
<b>19345</b>	ALTALUCE - spot light beam - ceiling mounting (OPTIONAL)

## 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 MODULE ***	

\*\*\* Contact the Beghelli sales network for availability

## Titanium Battery



- 1 Withstands extreme operating temperatures:** -20°C ÷ +50°C
- 2 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 3 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

## AT

Autotest

W*	Order Code	Description	Version	Autonomy	Battery	n° LEDs	Flux** SE lm	Flux SA lm	Absorption W	Weight kg	Pack
24	<b>19338</b>	L.LARG DWRC AT OPT 24W SA LTO	SE/SA/PS	1h, 1,5h, 2h, 3h, 8h	2xLTO 7.2V 0,5Ah	1	250	-	1	0,8	6

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

**DALI  
MODULE  
15038**

**LG  
MODULE  
15036**

**LGFM  
MODULE  
15037**

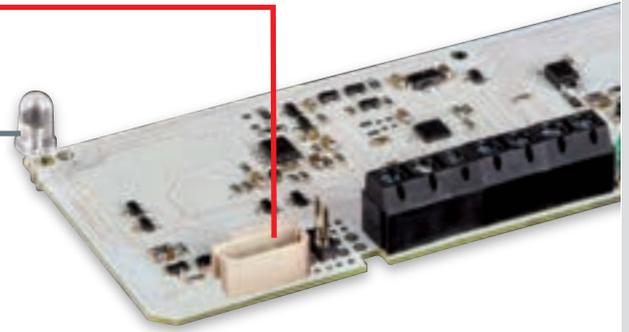
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
Smartphone interface to control and set up the 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
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
ALTALUCE	1	Covers a surface of 12,4x12,4 m with at least 0.5lux with the exception of a 0.5 m perimeter
	2	Centre distance 14,4 m covering a surface of 26,8x26,8 m with at least 0.5lux with the exception of a 0.5 m perimeter

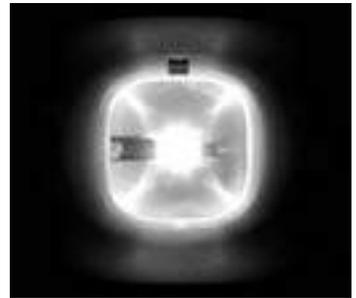
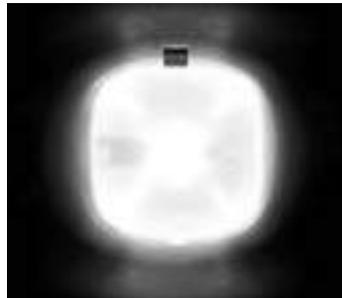
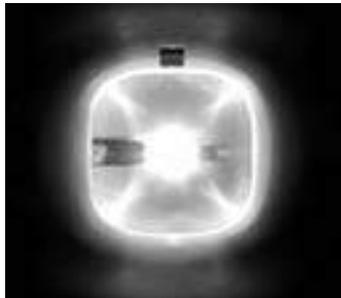
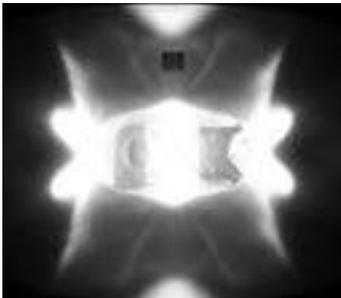
## One fixture for several applications

**LUNGALUCE - LONG LENS**

**LARGALUCE - WIDE LENS**

**DIFFUSALUCE**

**ALTALUCE**



# Lungalargaluce LED

## Recessed LED Emergency

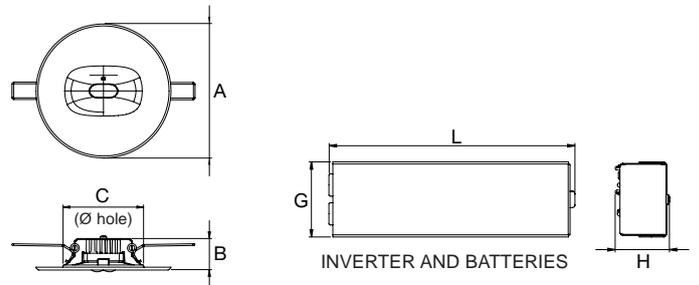
High-performance emergency lighting fixture with a kit of special lenses in highly transparent PMMA, supplied for both the Lungaluce and the Largaluce version, to obtain different dimensions of the illuminated surface. Each lens is supplied with an aesthetic mask in white Polycarbonate, with a blocking 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, SE / SA / PS ( Maintained / Not Maintained / public performance ) selectable with DIP switch in LG and LGFM version
<b>Standard</b>	EN 50172, EN 60598-1, EN 60598-2-2, EN 60598-2-22, CEI EN 62471
<b>Protection grade</b>	IP42, IK07
<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>Control Gear</b>	Independent separate emergency controlgear with inner rechargeable battery
<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**	• Dimensions (mm) •					
W	A	B	C	L	G	H
24	120	28	80 ±100	204	63	46

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

## Lenses

supplied

Order code	Description
-	LUNGALUCE - wide light beam for corridors and escape routes
-	LARGALUCE - symmetric light beam for main area - antipanic light - ceiling mounting
<b>19346</b>	DIFFUSALUCE - symmetric light beam for main area - antipanic light - ceiling mounting (OPTIONAL)
<b>19345</b>	ALTALUCE - spot light beam - ceiling mounting (OPTIONAL)

## AT Autotest

W*	Order Code	Description	Version	Autonomy	Battery	n° LEDs	Flux** SE lm	Flux SA lm	Absorption W	Weight kg	Pack
24	<b>19331</b>	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	<b>19332</b>	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	<b>19333</b>	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	<b>17466</b>	L.LARG DW RC SLG 24W	-	-	-	1	-	250	5,5	0,7	6

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

## SICURO 24V

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

## HT

Mains voltage power supply (AC 230V 50 Hz - DC 216V)

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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22

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
ALTALUCE	1	Covers a surface of 12,4x12,4 m with at least 0.5lux with the exception of a 0.5 m perimeter
	2	Centre distance 14,4 m covering a surface of 26,8x26,8 m with at least 0.5lux with the exception of a 0.5 m perimeter

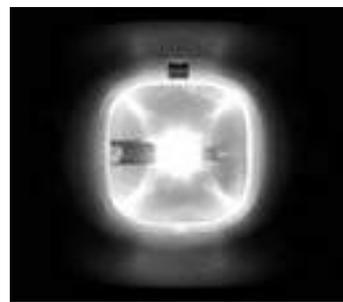
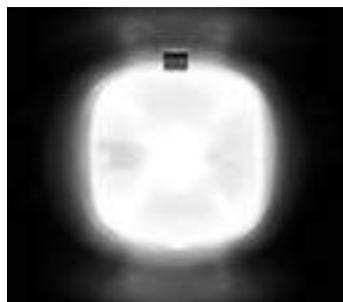
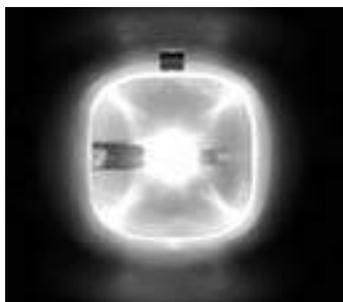
# One fixture for several applications

**LUNGALUCE - LONG LENS**

**LARGALUCE - WIDE LENS**

**DIFFUSALUCE**

**ALTALUCE**



# 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



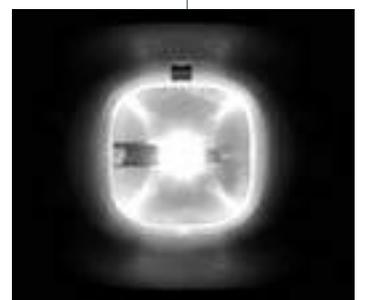
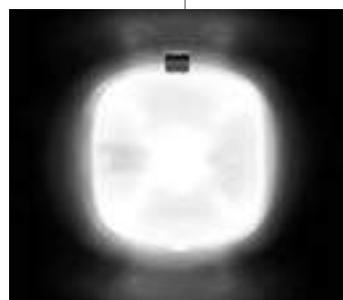
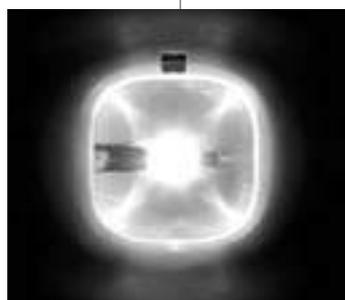
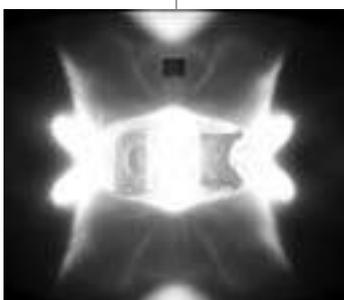
**Largaluce - wide lens**  
 mounted at a height of 3m it  
 illuminates a surface of 11.3x11.3m  
 at 0.5 lux (128 sq.m)



**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)



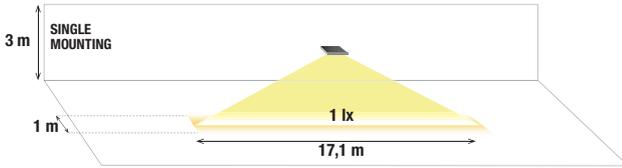
**Altaluce - high lens**  
 mounted at a height of 7m  
 it illuminates a surface of  
 12,4x12,4 m at 0.5 lux



# Emergency light calculation on the ground

## Lungaluce - wide light beam lens - corridors, escape routes

lens efficiency 87%

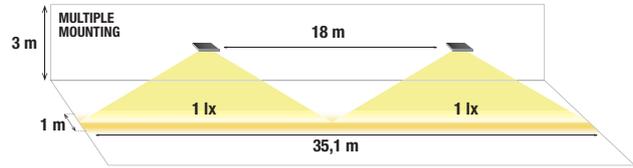


### Single mounting

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

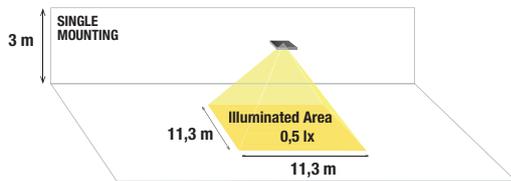
### Multiple mounting, fixture centre distance 18m

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



## Largaluce - symmetric light beam - main areas

lens efficiency 95%

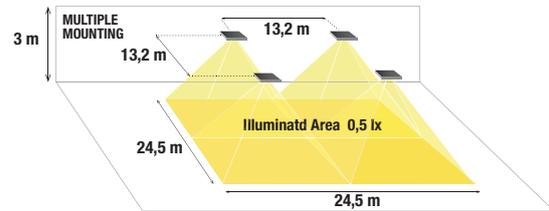


### Single mounting

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

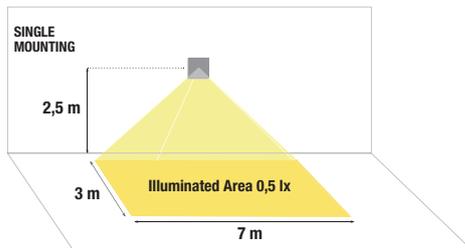
### Multiple mounting, fixture centre distance 13,2m

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



## Diffusaluce - symmetric light beam - main areas - antipanic light

lens efficiency 85%

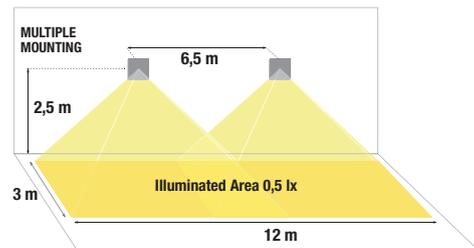


### Single mounting

illuminates a surface of 7x3 m at 0.5 lux (21 sq.m)

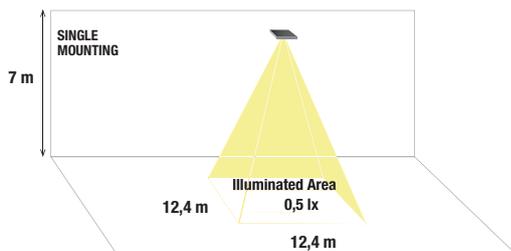
### Multiple mounting, fixture centre distance 6,5m

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



## Altaluce - spot light beam - ceiling mounting

lens efficiency 95%

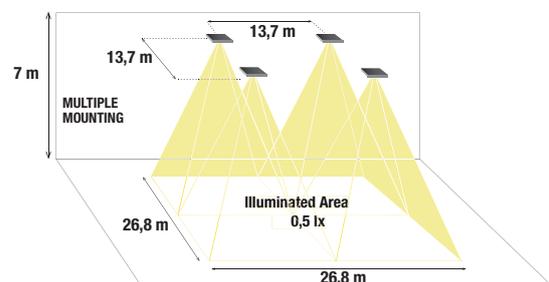


### Single mounting

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 26.8x26.8m at 0.5 lux (718 sq.m)





Andriana Chesi  
EKO 39  
© 2010, 2011, 2012, 2013





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.



# Lungalargaluce Extreme LED

Lighting  
The design of safety  
for large spaces

Here we are, lungalargaluce extreme is the new luminare introduced by Beghelli. It's 4 times the main lungalargaluce, able to work in ATEX and strong conditions. Ideal to work indoor and outdoor, lungalargaluce extreme is OPTICOM and it's equipped with new TITANIUM battery able to work in strong temperature conditions. LLL extreme is provided with 5 different lenses to satisfy every kind of application required.

# Lungalargaluce Extreme LED

Extreme LED emergency

High performance emergency lighting fixture with excellent mechanical strength ( IK09 ). Lungalargaluce EXTREME is designed to answer high risk application requirements. In the industrial context, it's perfect for installations in explosive atmosphere spaces created by alteration in gassy substances and the presence of air suspended combustible powder (pursuant to ATEX 2014/34/EU regulation for zone 02 and 22).

Optics can be exchanged to cover different kind of applications (escape routes, antipanic, light spot) , different zones, different installation high from 3m to 7m.

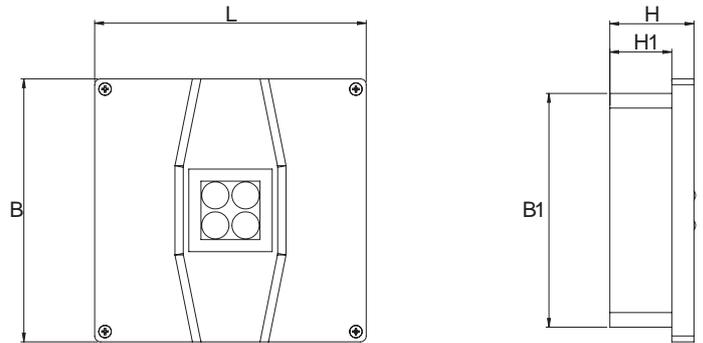
Lighting performance are the highest on the market thanks of the OPTICS design and thanks to the high efficiency LED used. Fixture lumen flux is 1000lm.



## CARATTERISTICHE GENERALI

<b>Power*</b>	20-40 W
<b>Power Supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), not Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, ATEX 2014/34/EU
<b>ATEX Classification</b>	CE EX II 3G Ex nA IIB T4 Gc CE EX II 3D Ex tc IIIC T80°C Dc
<b>Protection grade</b>	IP65, IK09
<b>Autonomy</b>	1h, 1,5h, 2h, 3h, 8h
<b>Working temp.</b>	-20°C ÷ +50°C (Titanium battery)
<b>Mounting</b>	ceiling, wall, recessed
<b>Body</b>	Die-cast aluminium
<b>Optics</b>	lenses in highly transparent PMMA
<b>Light Source</b>	LED

\* Indicative power for comparison with fluorescent tube fixtures



Power* W	• Dimensions (mm) •				
	L	B	B1	H	H1
20-40	184	180	160	57	42

## Lenses

supplied

Order code	Description
-	LENS LUNGALUCE H 7M
-	LENS LARGALUCE H 7M
-	LENS LIGHTSPOT H 7M
-	LENS LUNGALUCE H 3M
-	LENS LARGALUCE H 3M

## Accessories

to be ordered separately

Order code	Description
<b>19371</b>	ADJUSTABLE BRACKET
<b>19372</b>	RECESSED BRACKET

## 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:** -20°C ÷ +50°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

## 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 MODULE ***	

\*\*\* Contact the Beghelli sales network for availability

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22 \*\*\* Contact the Beghelli sales network for availability

**DALI**  
MODULE  
15038

**LG**  
MODULE  
15036

**LGFM**  
MODULE  
15037

MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI

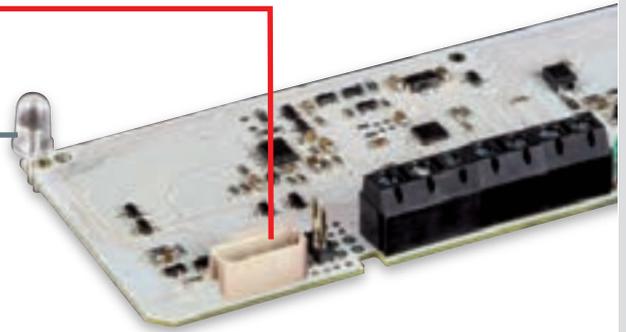


INTELLIGENT PHOTOSENSOR SUPPLIED

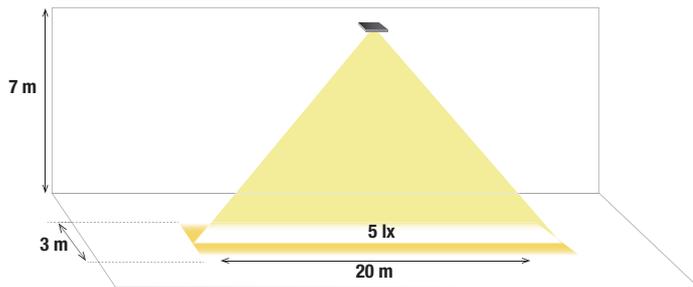


opticom  
TECHNOLOGY

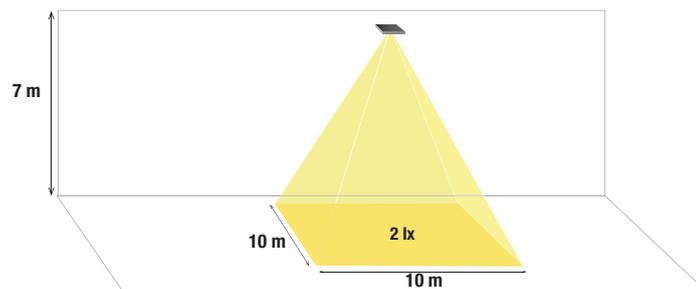
Smartphone interface  
to control and set up the system



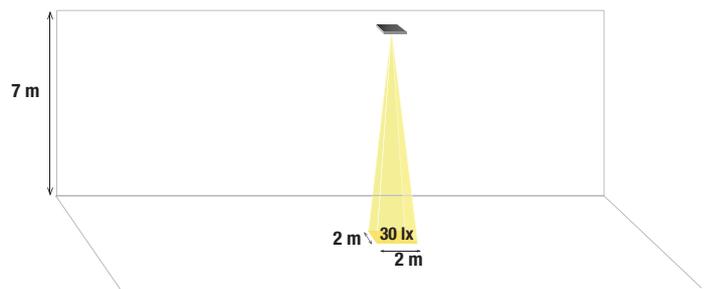
### Lungaluce Lens - ceiling 7 m high (autonomy 1h)



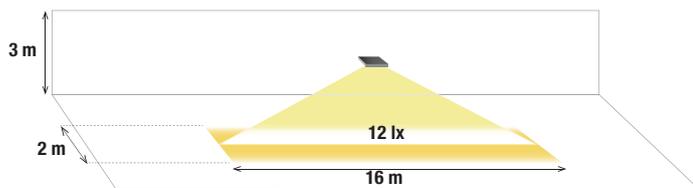
### Largaluce Lens - ceiling 7 m high (autonomy 1h)



### Altorischio Lens - ceiling 7 m high (autonomy 1h)



### Lungaluce Lens - ceiling 3 m high (autonomy 1h)



### Largaluce Lens - ceiling 3 m high (autonomy 1h)



## AT

opticom  
TECHNOLOGY

W*	Order code	Description	Model	Autonomy	Batter	n° LED	Flux** SE lm					Flux** SA lm		Power consumpt	Weight kg	Pack
							1h	1,5h	2h	3h	8h					
20-40	19370	LUNGALARGA EXTREME OPT SE/SA	SE/SA	1-1,5-2-3-8h	2xLTO 4,8V 1,2Ah	4	1000	670	500	340	125	500	7,5	0,9	6	

## SLG

W*	Order code	Description	n° LED	Flux** SA lm	Absorption W	Weight kg	Pack
20-40	19322	LUNGALARGA EXTREME SLG	4	600	6,5	0,9	6

## SICURO 24V

W*	Cod. Ordine	Descrizione	n° LED	Flusso** SA lm	Assorbimento W	Peso kg	Imballo
20-40	19499	LUNGALARGA EXTREME SLGS	4	600	6,5	0,9	6

## HT

Mains voltage power supply (AC 230V 50 Hz - DC 216V)

W*	Cod. Ordine	Descrizione	n° LED	Flusso** SA lm	Assorbimento W	Peso kg	Imballo
20-40	19323	LUNGALARGA EXTREME HT	4	600	6,5	0,9	6





LUNGA AREA  
LUCE LED



# 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

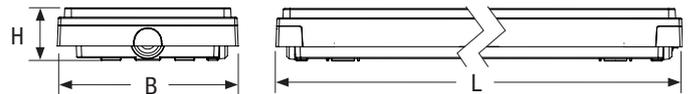
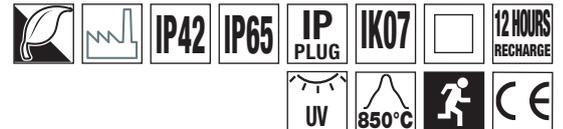


**1250  
lumen**

### GENERAL CHARACTERISTICS

- Power \*** 18, 24 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE)
- Standard** EN 60598-1, EN 60598-2-22, EN 1838
- Protection grade** IP65, IP42 - IK07
- Autonomy** 1, 2, 3h - 8h (model 18W)
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, ceiling
- Housing** White Polycarbonate RAL 9003
- Optics** Symmetrical, white
- Diffuser** Transparent Polycarbonate
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



Power * W	• 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>	ADHESIVE EXIT TICINQUE LED
<b>11583</b>	ADHESIVE LEFT TICINQUE LED
<b>11584</b>	ADHESIVE RIGHT TICINQUE LED
<b>11585</b>	ADHESIVE DOWN TICINQUE LED



**CUNEIFORM DOUBLE REFLECTOR WITH LED SIGNAL**

### CEILING MOUNTING



### WALL MOUNTING



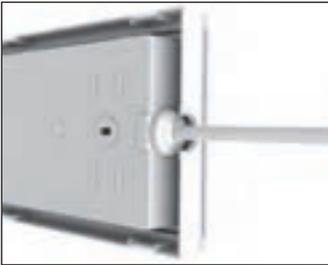
### CABLE GLAND



- PG16/PG20 ADAPTER

supplied

### CABLE GROMMETS



- 3 IP CABLE GROMMETS

supplied

### EXIT SIGNS (Visibility Distance VD in table)



- LABELS IN ACCESSORIES TABLE

to be ordered separately

## BCS Granluce

Battery Control System

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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

## BCS

Battery Control System **IP42**

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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

## BCS

Battery Control System **IP65**

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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

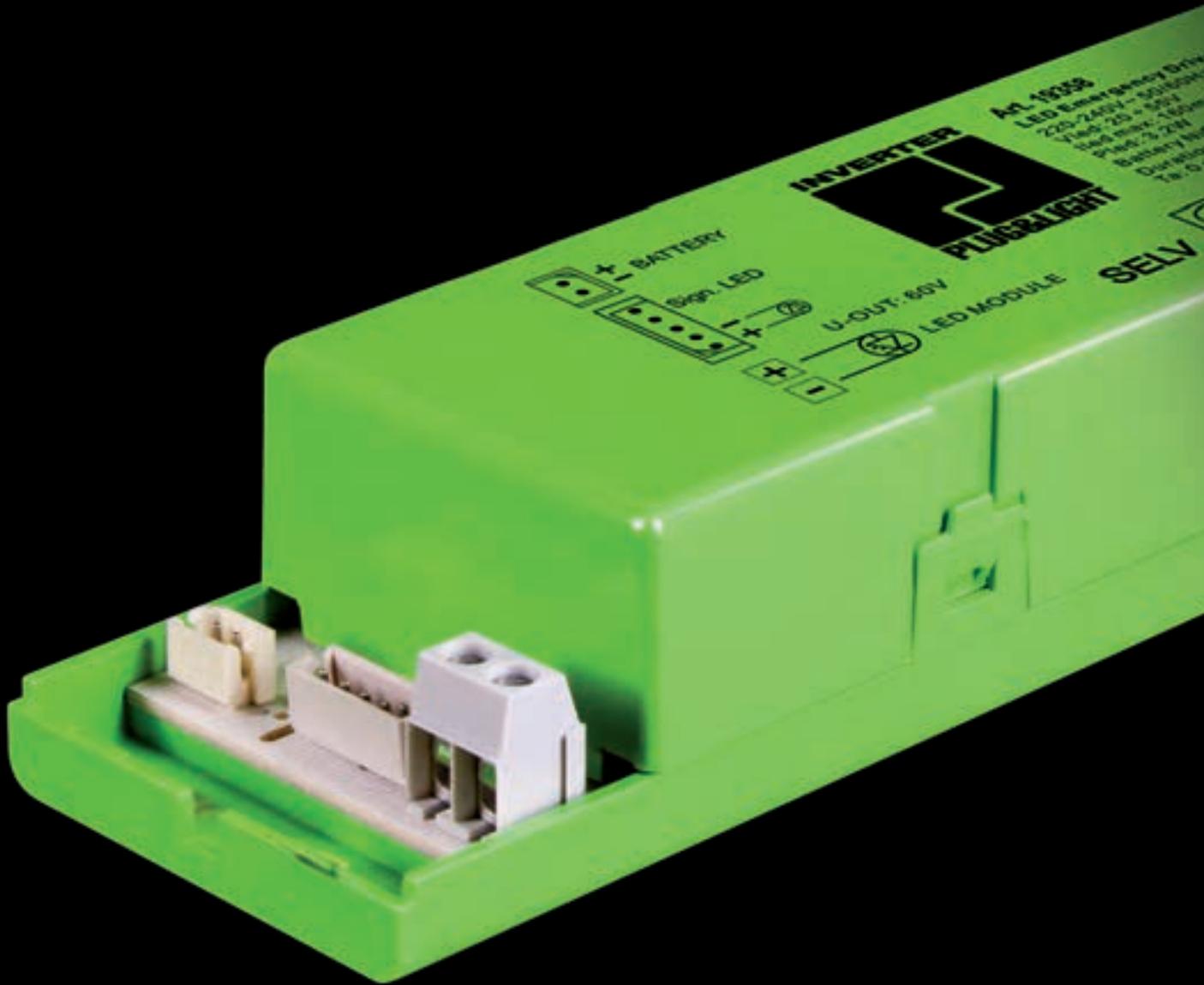
Autotest

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux SA lm	Power consump. max W	Weight kg	Pack 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.



# Plug&Light LED Inverter

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

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

The system is the evolution of the new Beghelli philosophy that was first introduced with the Smart Driver, innovative power suppliers that can be customized according to the specific needs only connecting the right module (domotic radio module, autodimmer, Dali, Plug & Light Inverter.

New Plug&Play inverter can be fast connected to every kind of Beghelli Smart driver luminaire to easy transform it in a emergency light.

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

Fast 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 452 lm), constant output power and complete maintenance of the conformity features of the Smart Driver device that it is connected to.

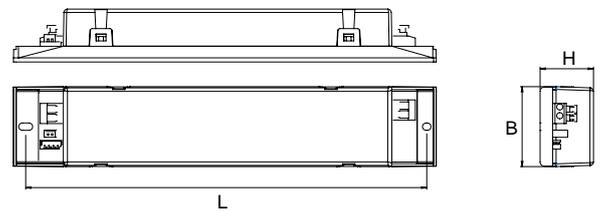
Inverter is able to work with every kind of LED source and driver in the 2 DC ranges 20-60V and 60-180V.



## GENERAL CHARACTERISTICS

<b>Output power</b>	3.2W constant
<b>Power supply</b>	230Vac 50Hz
<b>Operation</b>	Maintained/Not Maintained (SA/SE) RM with optional control device (cod. 2730)
<b>Standard</b>	EN 61347-2-7, EN 61347-1, EN 60598-1
<b>Protection grade</b>	IP40, IP65
<b>Autonomy</b>	1h, 3h
<b>DC Output</b>	20 - 60 Vdc (19358, 19359) SELV 60 - 180Vdc (19367)
<b>Working temp.</b>	0°C ÷ +40°C
<b>Battery</b>	NiCd 7.2V 0.75Ah (1h) NiMH 7.2V 1.5Ah (3h)
<b>Status LED</b>	Bi-color with PC pilot light (BCS)
<b>Housing</b>	Polycarbonate
<b>Max Output Current</b>	160 mA
<b>Recharging time</b>	24h

model IP40



IP	• Dimensions (mm) •			Weight max kg
	L	B	H	
40	239	46	30	0.3

model IP65

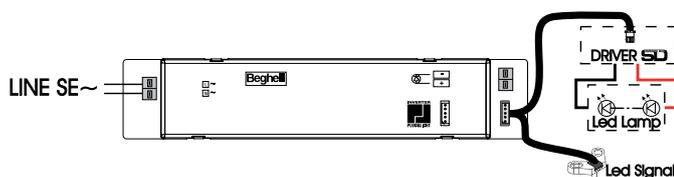


IP	• Dimensions (mm) •			Weight max kg
	L	B	H	
65	301	139	55	0.8

## Accessories

supplied

Order code	Description
-	CABLE COVERS



diffuser with SD Driver

**EXAMPLE OF CALCULATION OF THE EMERGENCY LUMINOUS FLUX FOR BS 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)

$$F_{out} = \frac{F_n}{P_n \times 0,9} \times P_{out}$$

$F_{out}$  = Flux output in emergency mode (lm)  
 $F_n$  = Nominal flux product (lm)  
 $P_n$  = Nominal power absorbed by the product (W)  
 0,9 = Coefficient of efficiency of the Inverter (EU 874/2012)  
 $P_{out}$  = Nominal Power Inverter (W)

Es.:

$$\begin{matrix} F_n = 7500 \text{ lm} \\ P_n = 59 \text{ W} \end{matrix} \longrightarrow F_{out} = \frac{7500}{59 \times 0,9} \times 3,2 = 452 \text{ lm}$$



**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 is indicated instantaneously with the appearance of the colour red on the multicolour warning led (Battery Control System BCS).



INVERTER

**BCS** BATTERY CONTROL SYSTEM

W*	Order code	Description	Model	Autonomy	Battery	Absorption max W	DC Output	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	20-60V	1/12
3	<b>19359</b>	INV PLUG&LIGHT LED SE/SA 3H 20-60V	SE/SA	3h	NiMH 7.2V 1.5Ah	1	20-60V	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	60-180V	1/12

**BCS** BATTERY CONTROL SYSTEM

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

\* Indicative power for comparison with fluorescent tube fixtures \*\* Minimum flux guaranteed according to EN 60598-2-22



# Inverter LED

the addressable  
IP20-IP65  
emergency in lighting

The new range of inverters for LED devices is characterised by high performance and flexibility. Available in IP20 and IP65 versions, the inverter is ideal for use with the latest-generation lighting technologies, and monitoring systems.

Inverter is AUTOTEST if not connected to any bus or if not equipped with LGFM wireless module.

Inverter can be set to work for 1h and 3h autonomy it's able to work with every kind of LED source in the 20-55V DC range.



# 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 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.

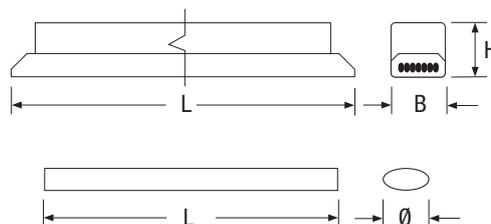
If not reached by the BUS, the LG version automatically performs self-diagnosis (AutoTest).

## GENERAL CHARACTERISTICS

<b>Max output power</b>	6W
<b>Power supply</b>	230Vac 50Hz
<b>Operation</b>	SA (Maintained), RM (rest mode with code 2730)
<b>Standard</b>	EN 61347-2-7, EN 61347-2-13, EN 61347-1, EN 62034
<b>Protection grade</b>	IP20 (according to the fixture in which it is mounted), IP65
<b>Autonomy</b>	1h, 3h
<b>Output voltage</b>	6V - 55V
<b>Peak output current</b>	500mA
<b>Recharging Time</b>	24h
<b>Working temp.</b>	0 + 50°C (Battery) -20 + 50°C (Inverter)
<b>Enclosure temperature limit</b>	70°C
<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

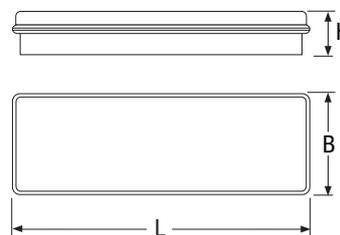


model IP20



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 Accessories

to be ordered separately

Order code Description

xxx MODULO INVERTER LED

xxx GUSCIO IP65

**EXAMPLE OF CALCULATION OF THE EMERGENCY LUMINOUS 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)

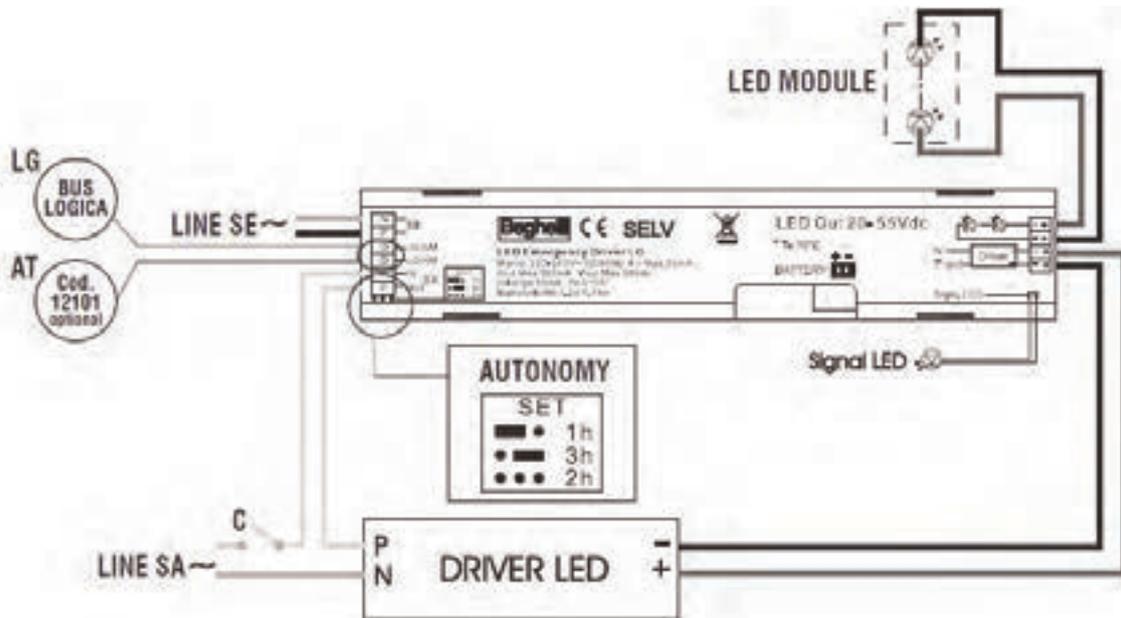
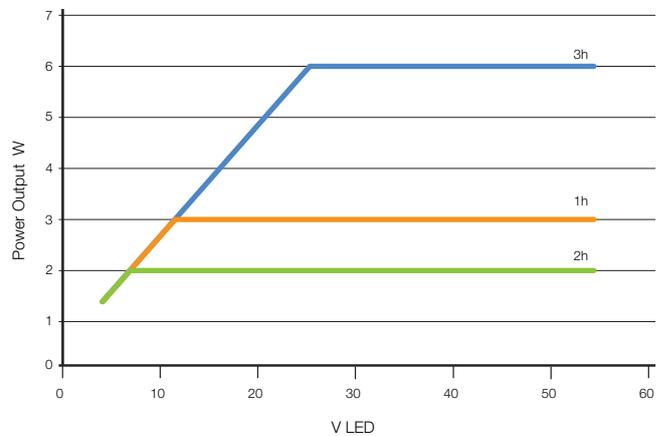
$$\text{Flux} = P \text{ inverter} \times \frac{F_n}{P_n} \quad \text{where:}$$

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)

$$\text{Flux} = 6 \times \frac{7500}{59 \times 0,9} = 847 \text{lm}$$



The output power is subjected to the maximum current of 500mA (i.e. the inverter set at 1h autonomy provides an output of 10W only if connected to a LED with V<sub>led</sub> > 20 Volt). Below this voltage, the power reduces as per this graph.



**AT-LG**

Logica

W	Order code	Description	Control	Model	Autonomy	Battery	Absorption W	Pack
6	<b>19355</b>	INVERTER LED AT/LG 6W 55V 123h	AT/LG	SA	1-2-3H	NiMh 7.2V 1.7Ah	2	1
8	<b>19372</b>	INVERTER LED AT/LG 8W 55V 123h	AT/LG	SA	1-2-3H	NiMh 7.2V 1.7Ah	2	1



# Inverter LED Extreme

the addressable  
IP20-IP65  
emergency in lighting

The new range of inverters for LED devices is characterised by high performance and flexibility. Available in IP20 and IP65 versions, the inverter is ideal for use with the latest-generation lighting technologies, and monitoring systems.

Inverter is AUTOTEST if not connected to any bus or if not equipped with LGFM wireless module.

Inverter can be set to work for 1h and 3h autonomy it's able to work with every kind of LED source in the 20-55V DC range.

# Inverter LED Extreme



Electronic control gear for emergency lighting to light LED modules. The emergency duration does not depend from the load and it is selectable in 1 h, 2h, 3h or 8h.

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. 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 reach by the communication bus, the LG version automatically performs self-diagnosis (Autotest).

Available in two different versions; with LTO batteries (suggested for environments where temperature reaches a range  $-20 \div +50^{\circ}\text{C}$ ) and with LiFe batteries (suggested for environments where temperature reaches a range  $0 \div +70^{\circ}\text{C}$ ).

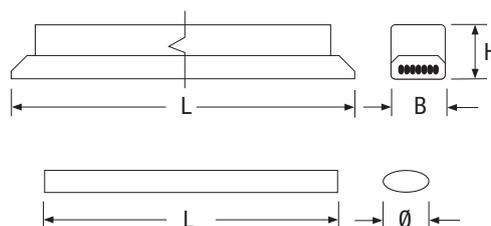
An additional battery can be supplied when there is the need to double the autonomy at a certain load.



## GENERAL CHARACTERISTICS

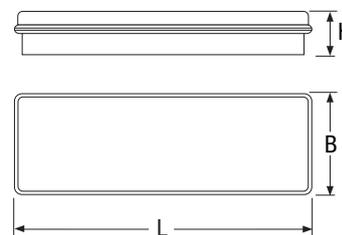
<b>Max output power</b>	10*W
<b>Power supply</b>	230Vac 50Hz
<b>Operation</b>	SA (Maintained), RM (rest mode with code 2730)
<b>Standard</b>	EN 61347-2-7, EN 61347-2-13, EN 61347-1, EN 62034
<b>Protection grade</b>	IP20 (according to the fixture in which it is mounted), IP65
<b>Autonomy</b>	45 min, 1h, 2h, 3h, 8h
<b>Output voltage</b>	3V - 55V
<b>Peak output current</b>	500mA
<b>Recharging Time</b>	24h
<b>Working temp.</b>	$-20^{\circ} \div +50^{\circ}\text{C}$ (LTO Battery) $0^{\circ} \div +70^{\circ}\text{C}$ (LiFe Battery) $-20^{\circ} \div +70^{\circ}\text{C}$ (Inverter)
<b>Recharging current</b>	105mA
<b>Battery</b>	LTO 14,4V 1,2AH LiFe 12,8V 1,5AH
<b>Rest Mode</b>	with optional control device (Cod. 12101)
<b>Status Led</b>	Bi-color
<b>Auto test</b>	Compatible with test button in the AT configuration
<b>Housing</b>	Polycarbonate

model IP20



	Battery Inverter dimensions (mm)			battery dimensions (mm)			Weight max kg
	L	B	H	L	Ø	H	
LTO	232	30	26	198	37	19	0.3
LiFe	232	30	26	132	37	19	0.3

model IP65



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

## Accessories

to be ordered separately

Order code	Description
19375	MODULE LGFM INVERTER LED
19376	COVER IP65
415439001	SUPPLEMENTARY BATTERY LTO 14,4V 1,2Ah
415440001	SUPPLEMENTARY BATTERY LiFe 12,8V 1,5Ah

**EXAMPLE OF CALCULATION OF THE EMERGENCY LUMINOUS 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)

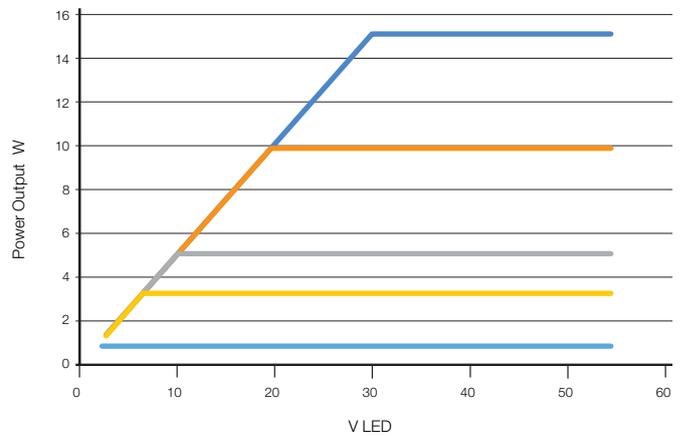
$$\text{Flux} = P \text{ inverter} \times \frac{F_n}{P_n} \quad \text{where:}$$

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)

Emergency Flux = 1271 lm



The output power is subjected to the maximum current of 500mA (i.e. the inverter set at 1h autonomy provides an output of 10W only if connected to a LED with V<sub>led</sub> > 20 Volt). Below this voltage, the power reduces as per this graph.



**AT-LG**

Logica

W	Order code	Description	Control	Model	Autonomy	Battery	Absorption W	Pack
10*	<b>19390</b>	INVERTER EXT AT/LG 10W 55V 0,75-1 - 2 - 3 - 8h LTO	AT/LG	SA	0,75-1-2-3-8H	LTO 14,4V 1,2Ah	2	1
10*	<b>19391</b>	INVERTER EXT AT/LG 10W 55V 0,75-1 - 2 - 3 - 8h LiFe	AT/LG	SA	0,75-1-2-3-8H	LiFe 12,8V 1,5Ah	2	1

\* The output power raises up to 15W when the inverter is set at 45min. autonomy duration



# 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 fluorescent fixtures into emergency lighting may become the only possible solution which guarantees adequate results.



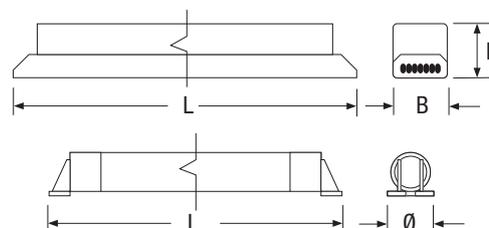
## Elettrinverter Logica

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.**

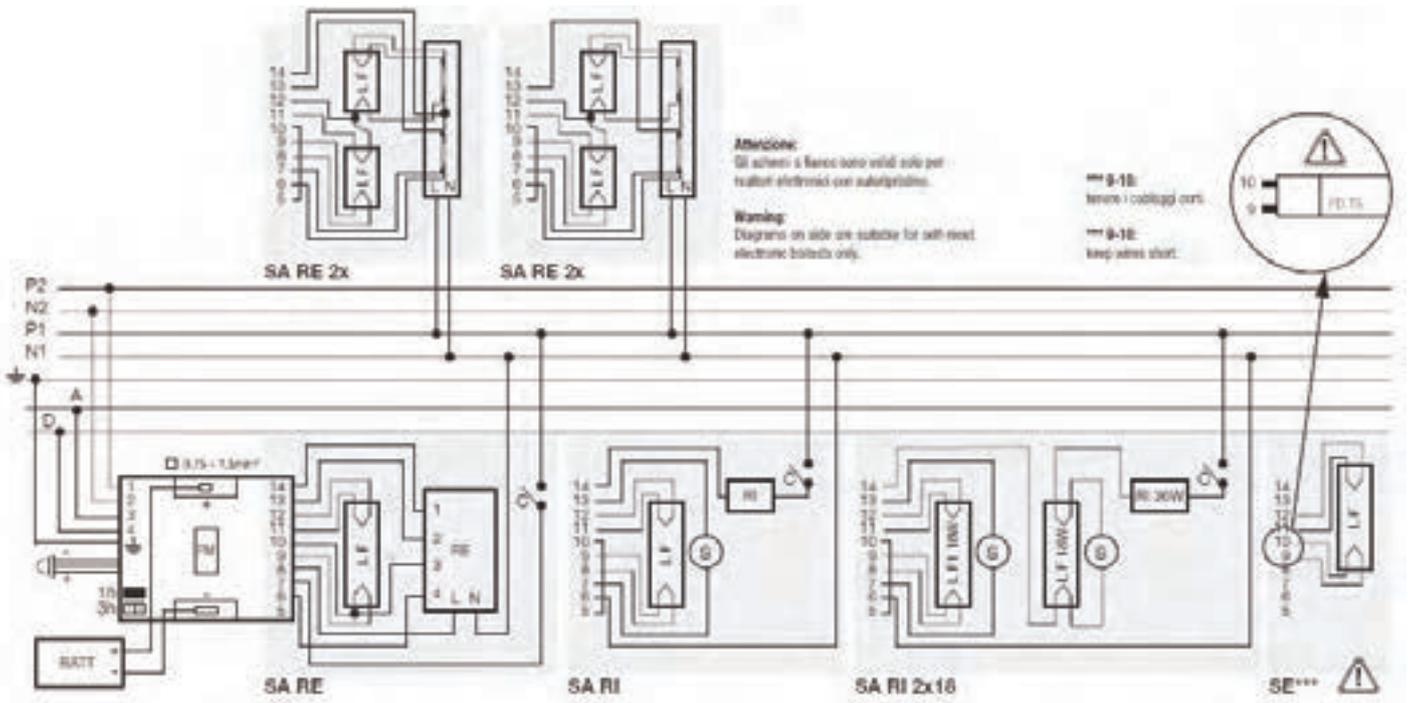
### GENERAL CHARACTERISTICS

<b>Power range</b>	13÷80 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (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 - 2h - 3h, 1-2.20h
<b>Working temp.</b>	0 + 40°C (Battery) -20 + 50°C (Inverter)
<b>Max enclosure temperature</b>	70°C
<b>Charging time</b>	with 30kHz lamp 12 hours
<b>Housing</b>	polycarbonate



Order code Inverter	Dimensions Inverter (mm)			Dimensions battery (mm)	
	L	B	H	L	Ø
12126	330	30	30	335	30

Battery NiCd 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 FH	14	65%	22%
		21	42%	15%
		28	28%	-
T5	G5 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		



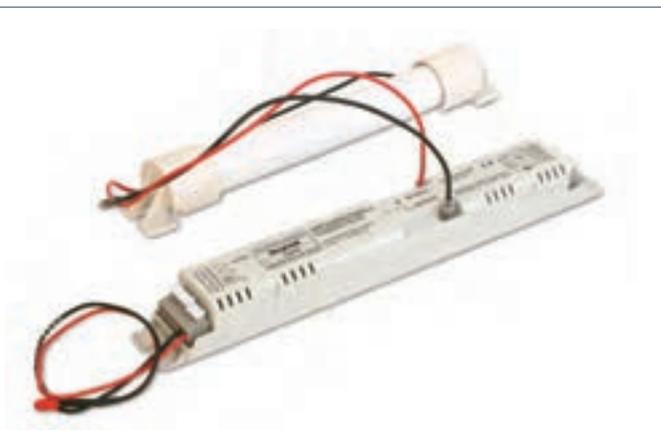
**LG** Logica

	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
	18÷58	<b>12126P</b>	ELETT 935 2 PERFORMER	SA	1-3h	NiCd 7.2V 4Ah	-	1.0	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
	18÷58	<b>12126PFM</b>	ELETT 935 2 LG FM PERFORMER	SA	1-3h	NiCd 7.2V 4Ah	-	1.0	12

# Compact Elettrinverter

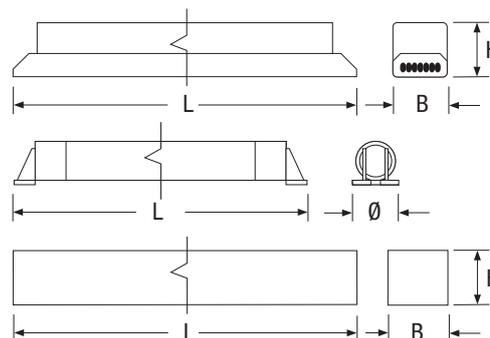


Electronic power supply unit for emergency lighting to illuminate fluorescent lamps (T8, T5 and TCL type). Can be easily installed inside ceiling lights. Complete with sealed rechargeable batteries with patented mounting system. The autonomy and luminous flux in an emergency situation is automatically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



## GENERAL CHARACTERISTICS

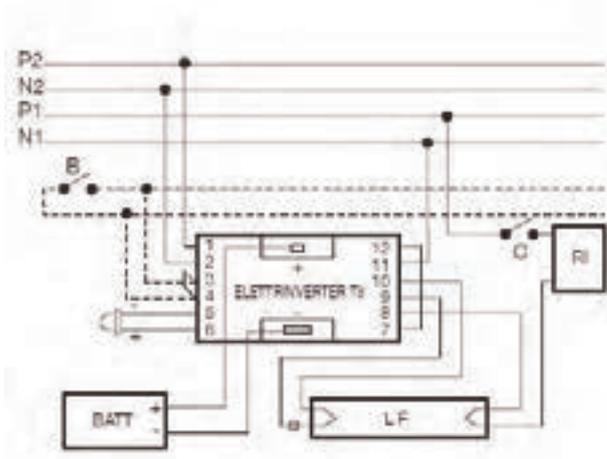
- Power range T5** 14÷80 W
- T8** 18÷58 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), RM
- Standard** EN 61347-1, EN 61347-2-7
- Protection grade** according to the fixture in which it is mounted
- Autonomy T5** 1h - 1h30 - 3h
- T8** 1h - 1h30 - 2h - 3h - 4h - 7h
- Working Temp.**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



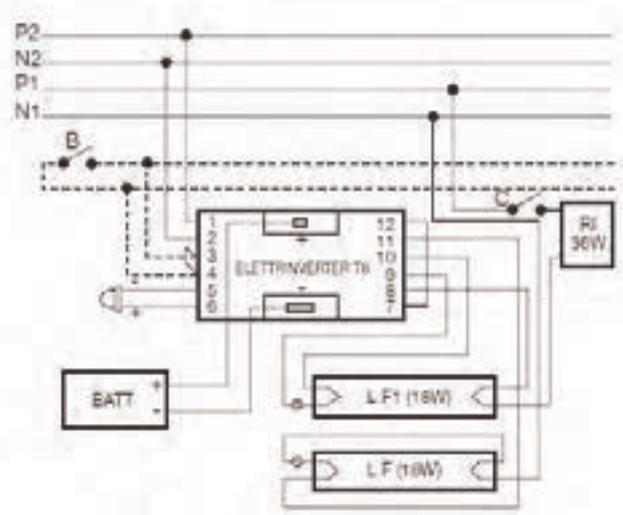
Order code Inverter	Inverter Dimensions (mm)			Battery Dimensions (mm)		model
	L	B	H	L	Ø	
<b>T5</b>						
<b>8488, 8489</b>	230	30	26	208	29	NiCd
<b>8490, 8491</b>	230	30	26	340	37	NiCd
<b>8492, 8493</b>	230	30	26	340	37	NiCd
<b>T8</b>						
<b>8480, 8481</b>	230	30	26	340	37	NiCd
<b>8482, 8483</b>	230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



2b  
SA



## BCS

### Battery Control System 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

## BCS

### Battery Control System 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

INVERTER

# Elettrinverter



## GENERAL CHARACTERISTICS

**Power T5** 15÷8 W  
**T8** 18, 36, 58 W

**Power supply** 230Vac ± 10% 50Hz

**Operation** Maintained (SA), Not Maintained (SE), RM

**Standard** EN 61347-1, EN 61347-2-7

**Protection grade** according to the fixture in which it is mounted

**Autonomy T5** 1h - 1h15 - 1h30 - 2h - 2h30 - 3h - 4h  
**T8** 1h - 1h15 - 1h30 - 2h - 2h30 - 3h - 4h

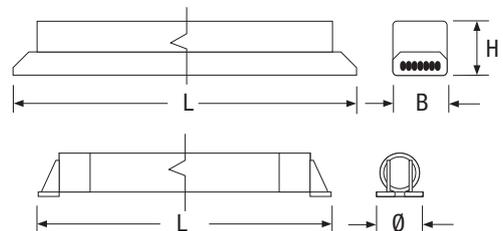
**Working Temp.** 0 + 50°C (BAttery)  
 -20 + 50°C (Inverter)

**Max enclosure temperature** 70°C

**Technical data TR** Power supply: 230V~50Hz  
 Certificate for operation with linear fluorescent tubes of: 18, 36, 58W  
 G13 (8348) 18, 36W G13 (8376)  
 Nominal output frequency:  
 with 20kHz lamp, without 50kHz lamp,  
 LED charging circuit activation light -  
 Charging time: max 24 hours Option to  
 connect cables with a cross-section of  
 0.75 to 1.5mm<sup>2</sup>  
 Control temperature: TC 50°C

**AT, CT, CTOC** Supply voltage: 230V ~ 50Hz Designed  
 for use with fluorescent lamps of 18 and  
 58W in power  
 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

**Housing** 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 Inverter	Dimensions Inverter (mm)			Dimensions battery (mm)		
	L	B	H	L	Ø	
8206	232	40	36	208	37	
8207	232	40	36	208	33	
Lamp	14W	21W	24W			
Flux%	30	29	20			
Autonomy	1h30'	1h	1h30'			

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

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

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

## BCS Battery Control System - T5

W	Order code	Description	Model	Battery	Absorption max. W	Weight kg	Pack
14÷24	8206	ELETTRIN 933/14-24WSAT5	SA	NiCd 3.6V 4Ah	6	0.8	12
28÷80	8333	ELETTRINV 933/28-80WSAT5	SA	NiCd 6V 4Ah	6	1.1	12
14÷24	8207	ELETTRIN933/14-24WSA/RMT5	SA RM	NiCd 3.6V 4Ah	6	0.8	12
28÷80	8334	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	9056	ELETT 935 AT 14-80 SA T5	SA	NiCd 6V 4Ah	7	1.2	12
14÷80	9057	ELETT 935 AT 14-80 SA/RM T5	SA RM	NiCd 6V 4Ah	7	1.4	12

## BCS Battery Control System T8

W	Order code	Description	Model	Battery	Absorption max. W	Weight kg	Pack
18÷36	2565	933/18-36SE1	SE	NiCd 3.6V 1.8Ah	7	0.6	12
18÷40	2549	933.2/SE	SE	NiCd 6V 2Ah	7	0.7	12
18÷58	2553	933/18-58SE1	SE	NiCd 3.6V 4Ah	7	0.8	12
18÷65	2551	933.4/SE	SE	NiCd 6V 4Ah	7	1.0	12
18÷36	8376	834/18-36 4.8 SA	SA	NiCd 4.8V 1.7Ah	5	0.5	12
18÷36	2567	933/18-36SA1	SA	NiCd 3.6V 1.8Ah	7	0.6	12
18÷36	3526	833/18-36/SA1	SA	NiCd 3.6V 1.8Ah	7	0.6	12
18÷40	2540	933.2/SA	SA	NiCd 6V 2Ah	7	0.7	12
18÷58	8348	834/18-58 4.8 SA	SA	NiCd 4.8V 2.0Ah	5	0.5	12
18÷58	2544	933/18-58SA1	SA	NiCd 3.6V 4Ah	7	0.8	12
18÷58	3527	833/18-58/SA1	SA	NiCd 3.6V 4Ah	7	0.8	12
18÷65	2542	933.4/SA	SA	NiCd 6V 4Ah	7	1.0	12
36÷58	2561	933.7/SA	SA	NiCd 6V 7Ah	11	1.5	6
18÷36	2566	933/18-36SE1 RM	SE RM	NiCd 3.6V 1.8Ah	7	0.6	12
18÷40	2550	933.2/SE RM	SE RM	NiCd 6V 2Ah	7	0.8	12
18÷58	2554	933/18-58SE1 RM	SE RM	NiCd 3.6V 4Ah	7	0.8	12
18÷65	2552	933.4/SE RM	SE RM	NiCd 6V 4Ah	7	1.1	12
18÷36	2568	933/18-36SA1RM	SA RM	NiCd 3.6V 1.8Ah	7	0.6	12
18÷40	2541	933.2/SA RM	SA RM	NiCd 6V 2Ah	7	0.8	12
18÷58	8349	834/18-58 4.8 SA RM	SA RM	NiCd 4.8V 2.0Ah	5	0.5	12
18÷58	2545	933/18-58SA1RM	SA RM	NiCd 3.6V 4Ah	7	0.8	12
18÷65	2543	933.4/SA RM	SA RM	NiCd 6V 4Ah	7	1.0	12
36÷58	2562	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	2571	935.4AT 18-58SA	SA	NiCd 6V 4Ah	7	1.2	12
18÷58	2572	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.



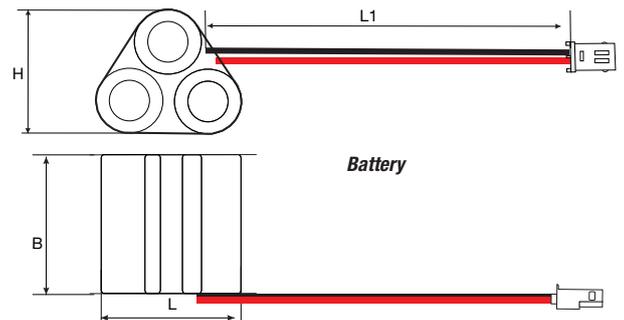
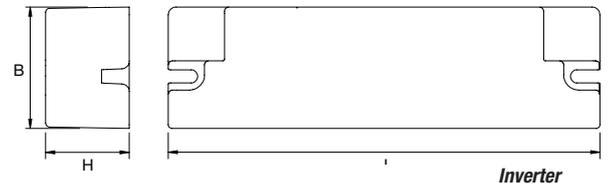
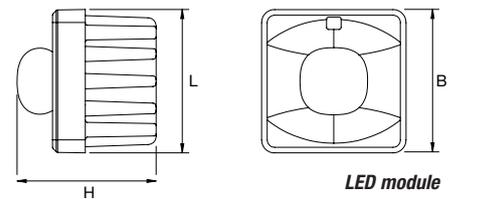
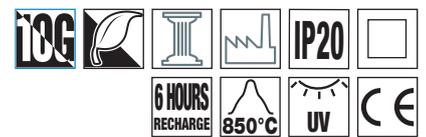
#### GENERAL CHARACTERISTICS

- Power** 2 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA)/Not Maintained (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172
- Protection grade** according to the fixture in which it is mounted
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** on fixtures with T5 and T8 pipes
- Housing** Aluminium and white Polycarbonate RAL 9010
- Optics** lenses in highly transparent PMMA
- Light source** LED

## LED emergency module Opticom

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. 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.



### 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

### 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 MODULE ***	

\*\*\* Contact the Beghelli sales network for availability

## Titanium Battery



- 1** Withstands extreme operating temperatures: -20°C ÷ +50°C
- 2** LONG LIFE with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 3** MAXIMUM SAFETY: unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

	Power W	• Dimensions (mm) •			
		L	L1	B	H
LED module with lens	18÷58	35	35	33	
Inverter	-	114	32	22	
Battery	-	31	215	51	25,5

\*\* 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>19347</b>	MODULE EM LED AT OPT SA LTO	SE/SA/PS	1h, 1,5h, 2h, 3h, 8h	2xLTO 7.2V 0,5Ah	1	250	-	1	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 (AC 230V 50 Hz - DC 216V)

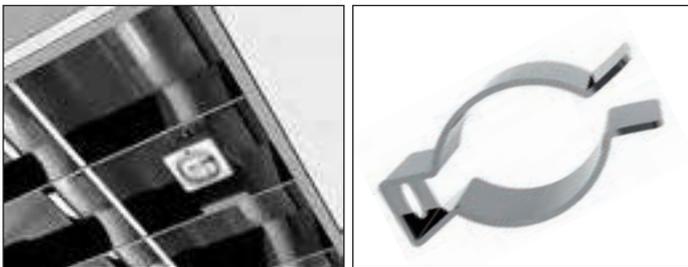
W	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** SA lm	Absorption W	Weight kg	Pack
2	19340	MODULE EM LED HT	-	-	-	1	-	250	5,5	0,2	6

## 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

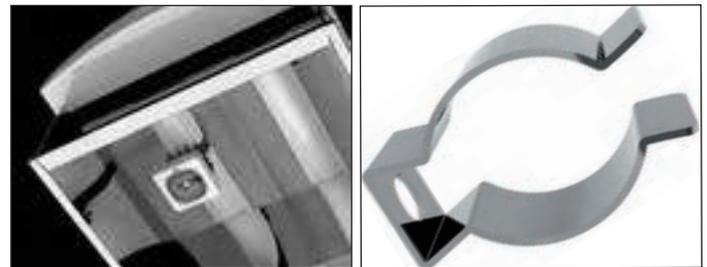
### MOUNTING ON A FIXTURE WITH T5 LAMP HOLDERS



- STEEL CLIP

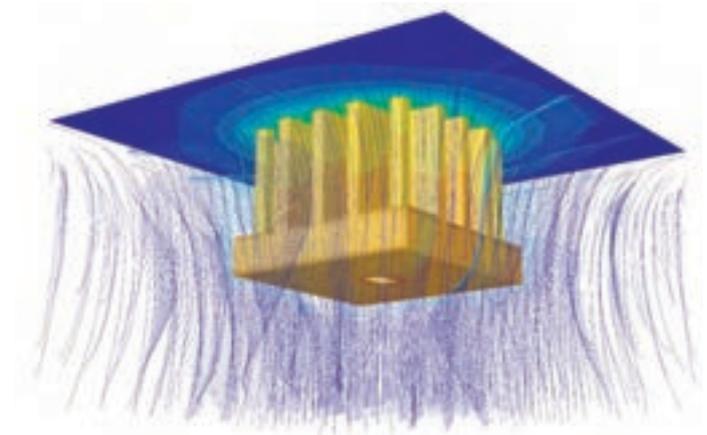
supplied

### 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

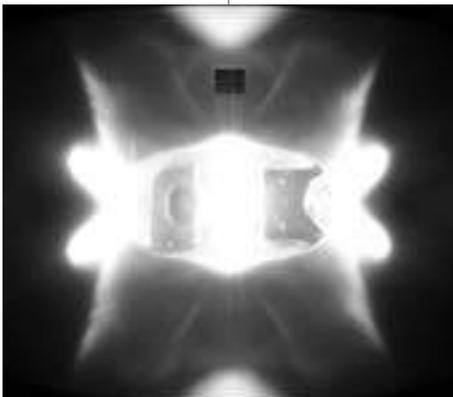


battery pack



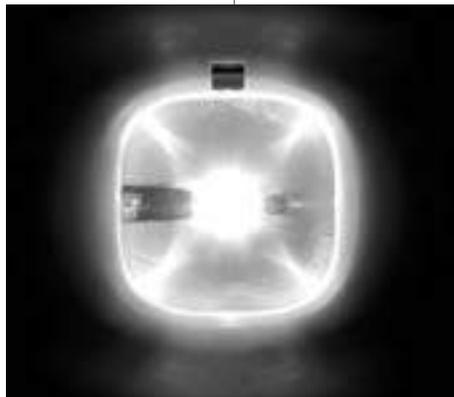
### Lungaluce - long lens

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



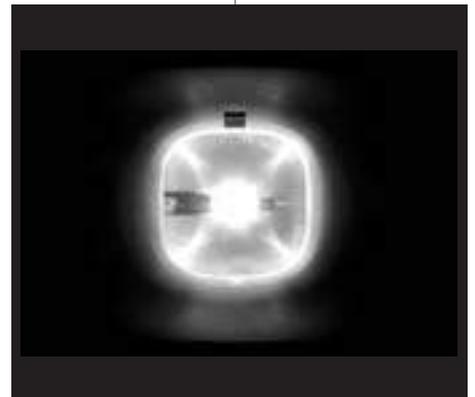
### Largaluce - wide lens

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



### Altaluce - high lens

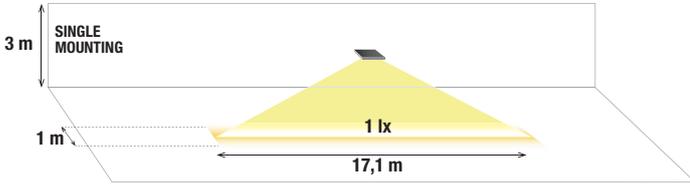
mounted at a height of 7m it illuminates a surface of 12.4x12.4m at 0.5 lux



# Emergency light calculation on the ground

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

lens efficiency 87%

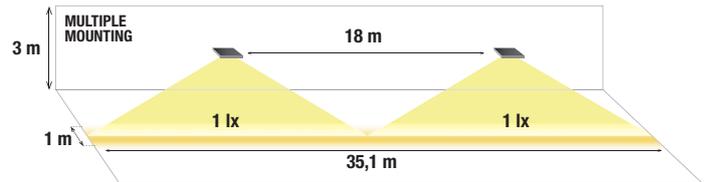


### Single mounting

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

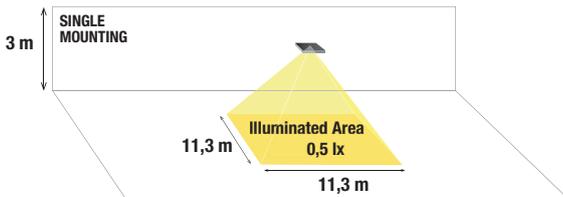
### Multiple mounting, fixture centre distance 18 m

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

lens efficiency 95%

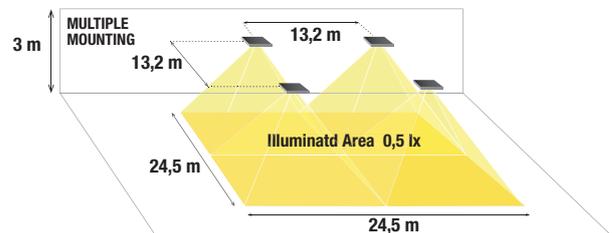


### Single mounting

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

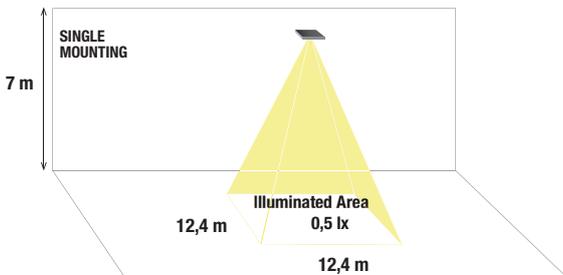
### Multiple mounting, fixture centre distance 13.2 m

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



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

lens efficiency 95%

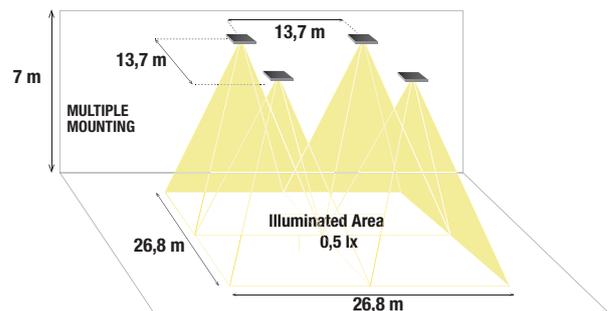


### Single mounting

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)





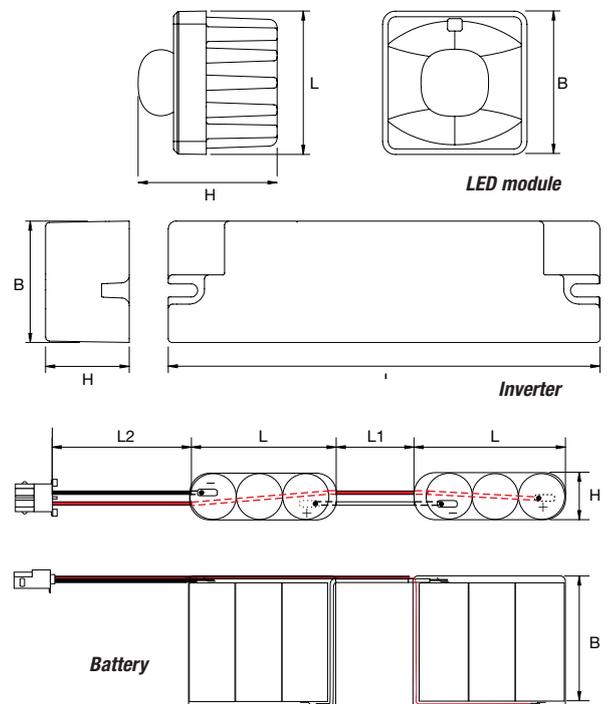
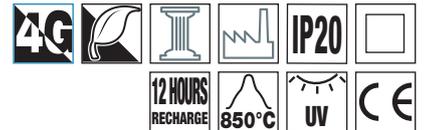
# LED emergency module

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, Maintained (SA)/Not Maintained (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, EN 1838, EN 50172
- 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 W	L	• Dimensions (mm) •			H
			L1	L2	B	
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 (AC 230V 50 Hz - DC 216V)

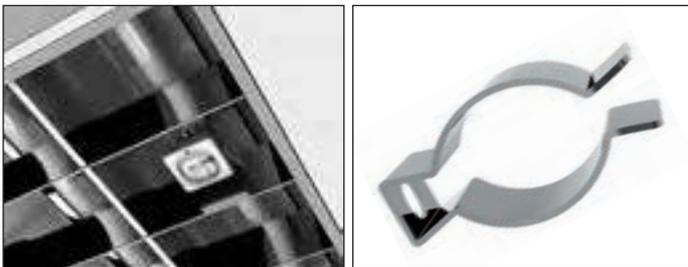
W	Order code	Description	Model	Autonomy	Battery	N° LED	Flux** SE lm	Flux** SA lm	Absorption W	Weight kg	Pack
2	19340	MODULE EM LED HT	-	-	-	1	-	250	5,5	0,2	6

## 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

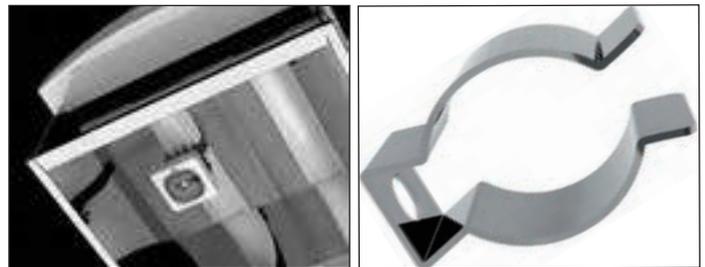
\* Minimum flux guaranteed according to EN 60598-2-22

### MOUNTING ON A FIXTURE WITH T5 LAMP HOLDERS

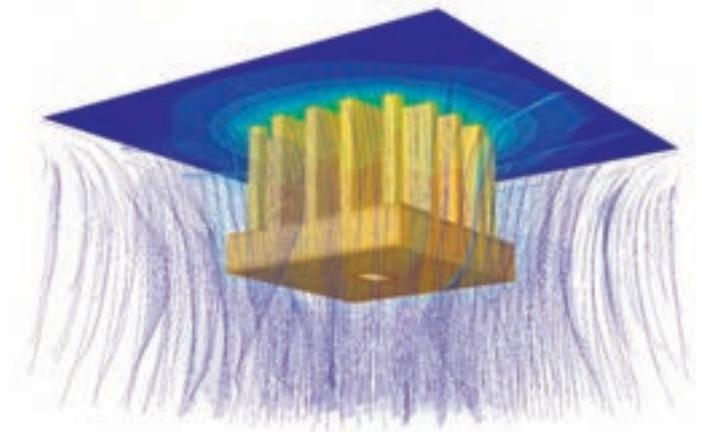


- STEEL CLIP supplied

### 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)

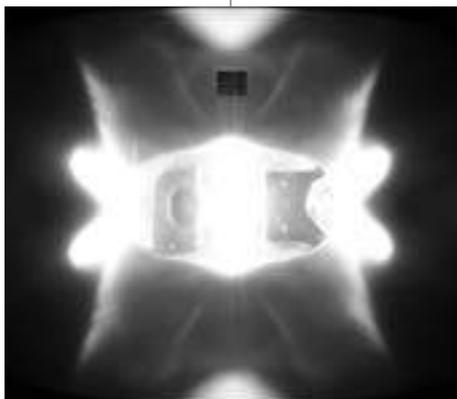


battery pack



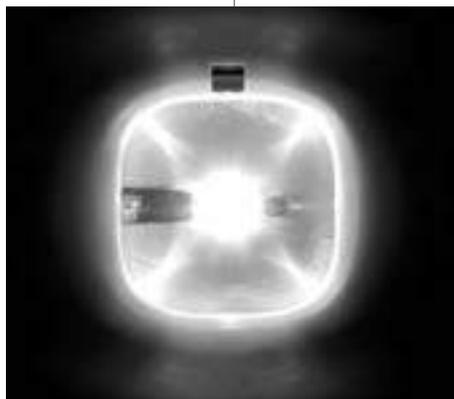
### Lungaluce - long lens

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



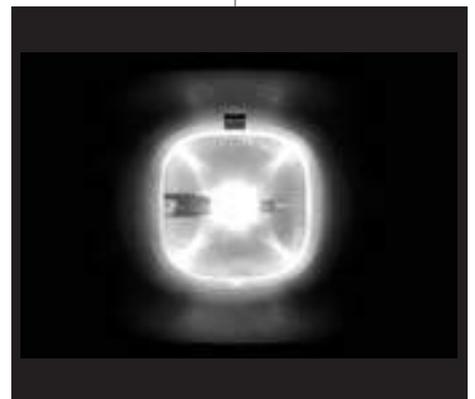
### Largaluce - wide lens

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



### Altaluce - high lens

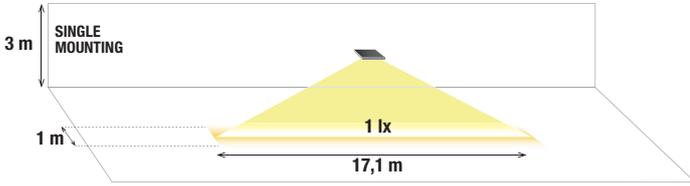
mounted at a height of 7m it illuminates a surface of 12.4x12.4m at 0.5 lux



# Emergency light calculation on the ground

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

lens efficiency 87%

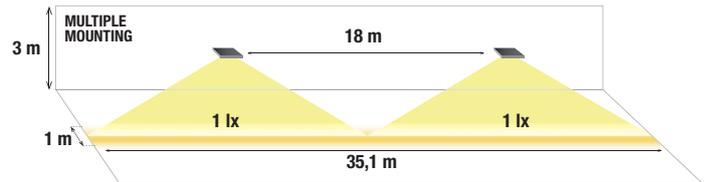


### Single mounting

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

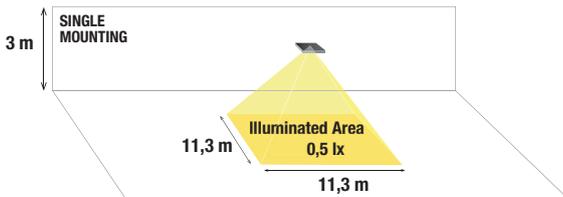
### Multiple mounting, fixture centre distance 18 m

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

lens efficiency 95%

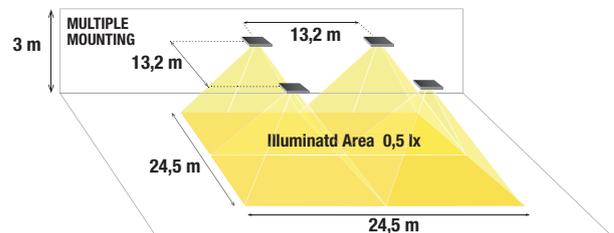


### Single mounting

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

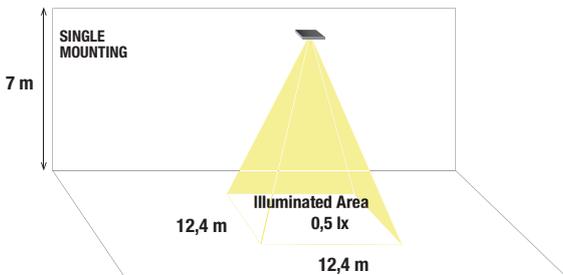
### Multiple mounting, fixture centre distance 13.2 m

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



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

lens efficiency 95%

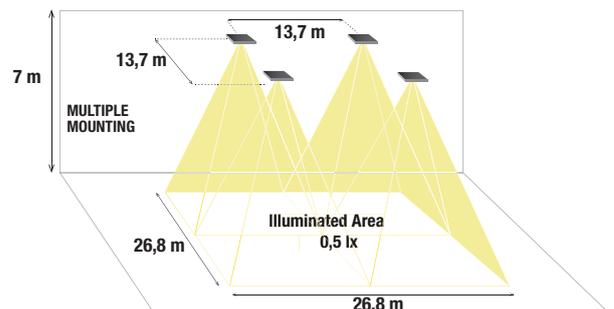


### Single mounting

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

**Power range** 1,5 W

**Power supply** 230Vac  $\pm$  10% 50Hz

**Operation** Maintained (SA), Not Maintained (SE)  
Rest Mode: with optional control device (cod. 2730)

**Standard** EN 60598-1, EN 61347-2-7,  
EN 60598-2-22, EN 61347-2-13  
EN 50172

**Protection grade** according to the fixture in which it is mounted

**Autonomy** 1h

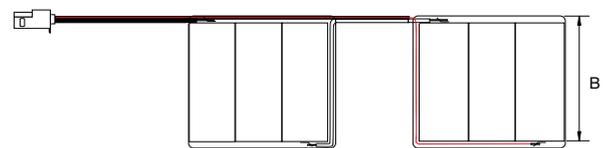
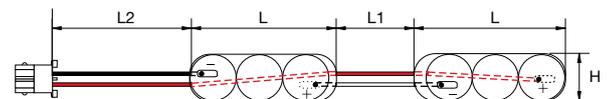
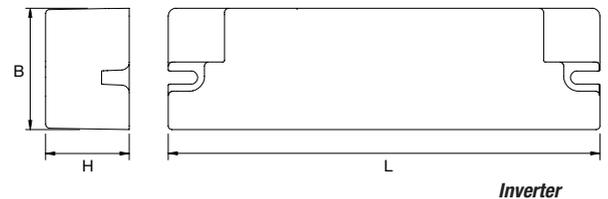
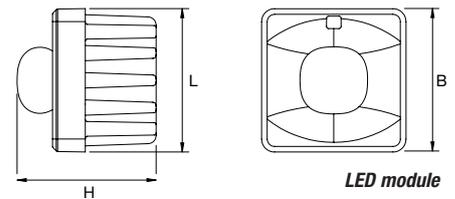
**Working temp.** 0°C  $\div$  +40°C

**Mounting** on fixtures with T5 and T8 lampholders

**Housing** Graphite-charged polyamide

**Optics** lenses in highly transparent Polycarbonate

**Light source** LED



	Power 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	-

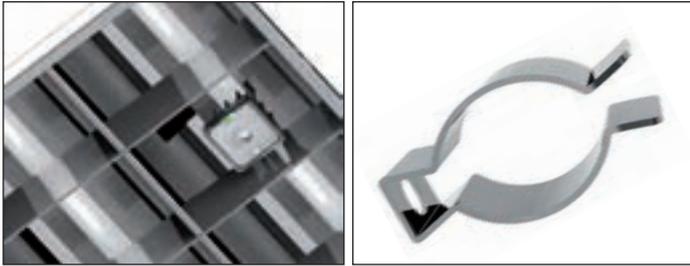
## Accessories

supplied

Order Code Description

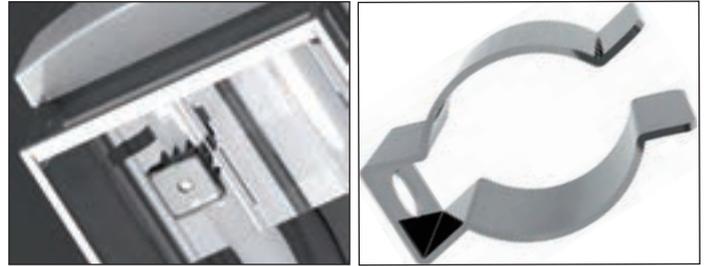
- **3 LENSES: LUNGA, LARGA, ALTA** with 3 different covers
- **2 SPRINGS FOR FIXING ON T8 AND T5 LAMP HOLDERS**

### MOUNTING ON A FIXTURE WITH T5 LAMP HOLDERS



- STEEL CLIP supplied

### MOUNTING ON A FIXTURE WITH T8 LAMP HOLDERS



- STEEL CLIP supplied

### LENSES SUPPLIED



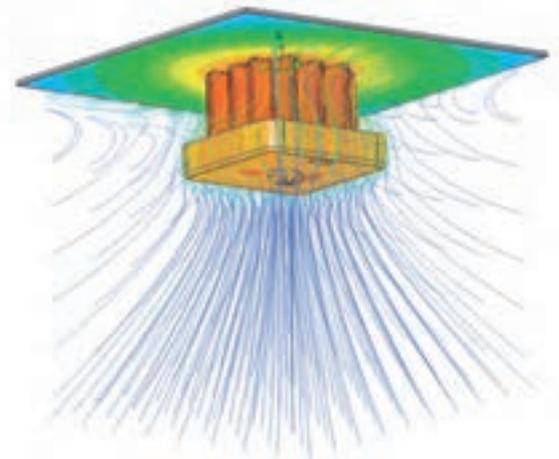
- LUNGALUCE supplied



- 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.

## BCS

### Battery Control System

W	Order code	Description	Model	Autonomy	N° LED	Battery	Absorption max W	Weight kg	Pack
1,5	<b>19350</b>	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



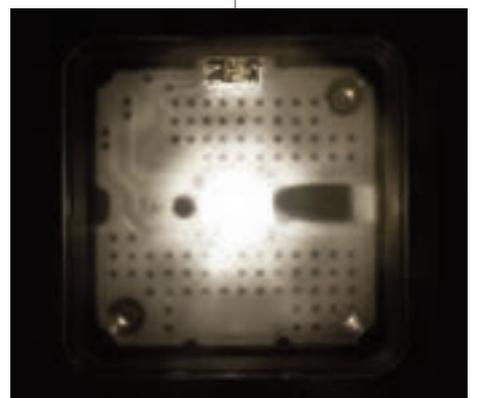
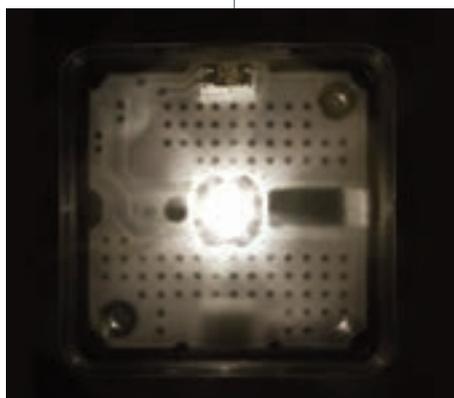
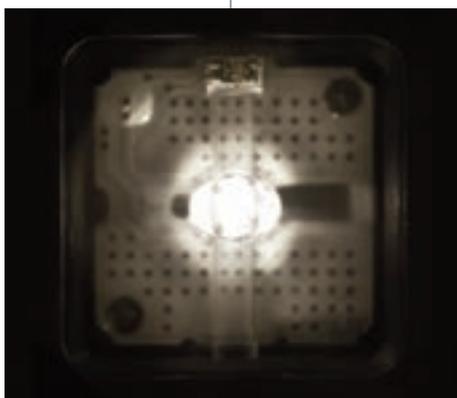
### Largaluce - wide lens

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



### Altaluce - high lens

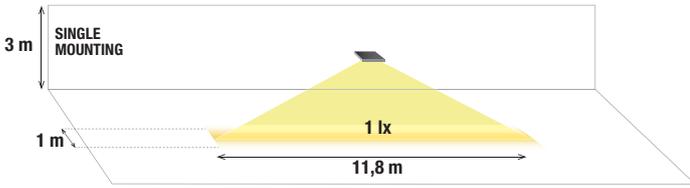
mounted at a height of 7m it illuminates a surface of 9.3x9.3m at 0.5 lux



# Emergency light calculation on the ground

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

lens efficiency 87%

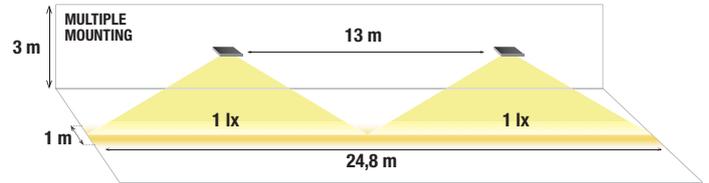


### Single mounting

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

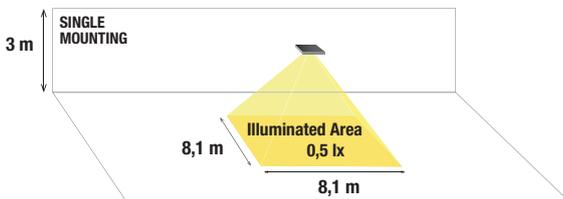
### Multiple mounting, fixture centre distance 13 m

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

lens efficiency 92%

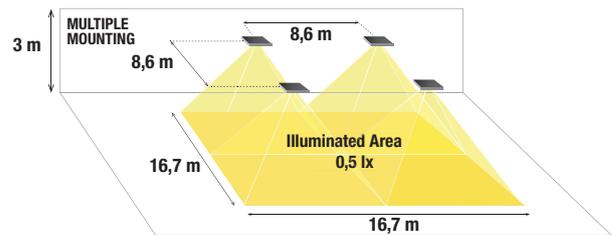


### Single mounting

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

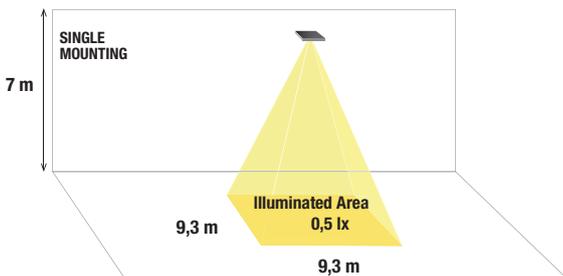
### Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



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

lens efficiency 85%

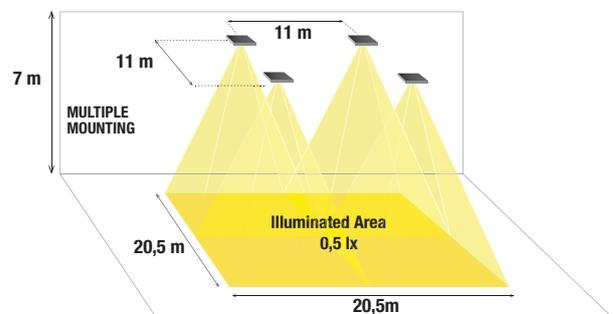


### Single mounting

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 diffusers 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.

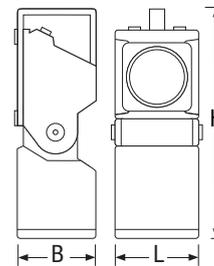
The head can be tilted forward or backwards, and can be adjusted across 120°. The bottom of the lamp can be opened, and contains the power cord for charging along with 3 coloured diffuser diffusers.

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



## GENERAL CHARACTERISTICS

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



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

## Accessories

supplied

Order code	Description	Order code	Description
<b>3913</b>	SCOUT 3210/TR SHOULDER STRAP	<b>3730</b>	ORANGE DIFFUSER 3200/SC/A
<b>3728</b>	TRANSPARENT DIFFUSER DIFFUSER 3200/SC/B	<b>3731</b>	GREEN DIFFUSER 3200/SC/V
<b>3729</b>	RED DIFFUSER 3200/SC/R		

## Accessories

to be ordered separately

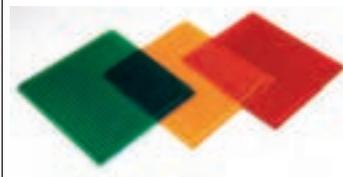
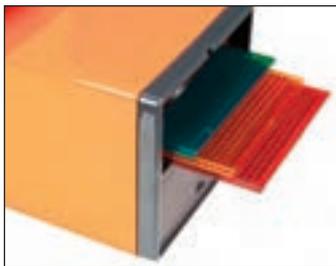
Order code	Description	Order code	Description
<b>2750</b>	WALL FIXING SUPPORT 3220 M	<b>3726</b>	90 SCOUT 4001/SC DIFFUSER
<b>2729</b>	DC-AC CONVERTER 12-24V/220V		

### SHOULDER STRAP



**3913** SHOULDER STRAP supplied

### DIFFUSERS



<b>3728</b>	TRANSPARENT DIFFUSER	supplied
<b>3729</b>	RED DIFFUSER	supplied
<b>3730</b>	ORANGE DIFFUSER	supplied
<b>3731</b>	GREEN DIFFUSER	supplied

### ADJUSTABLE HEAD

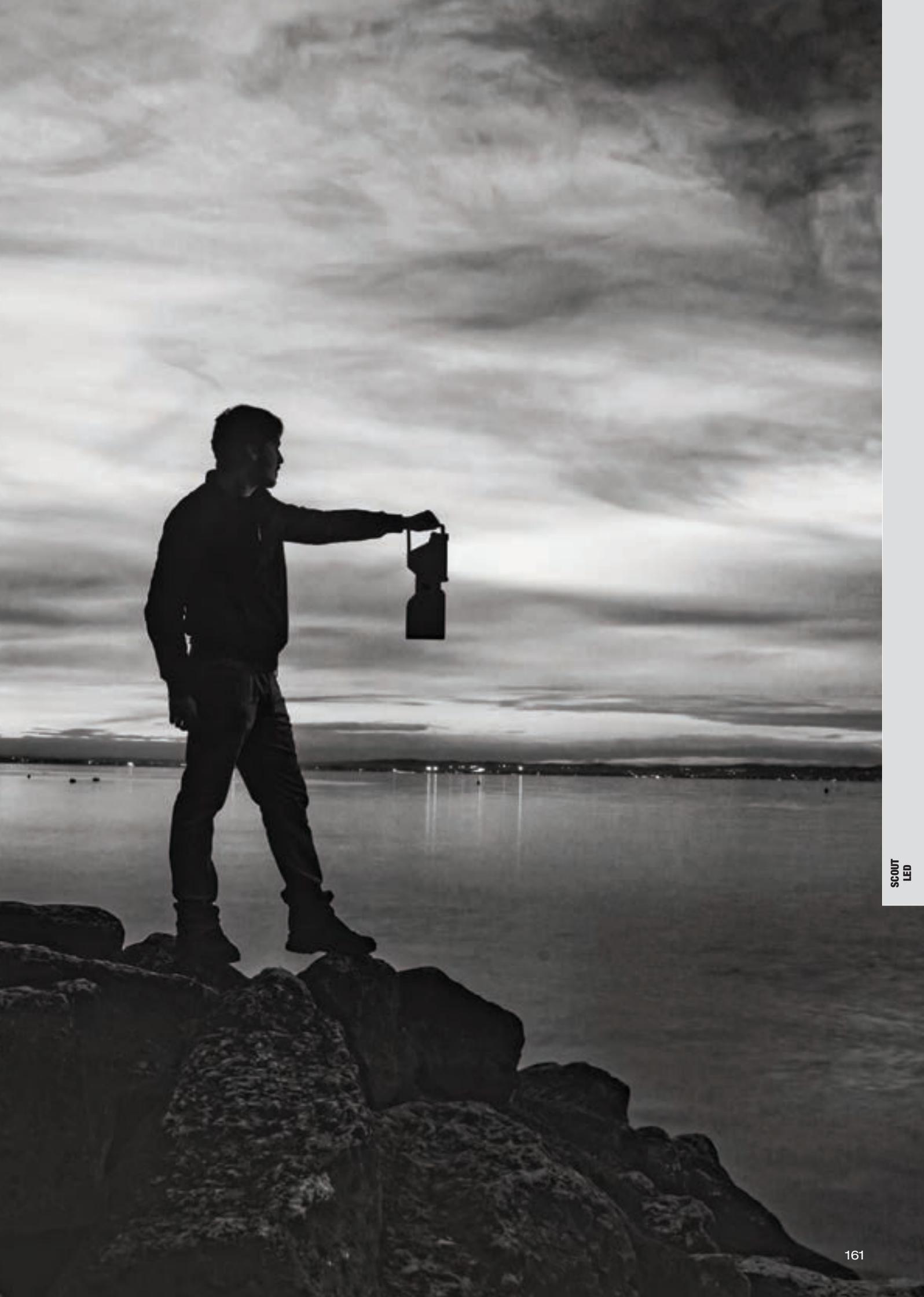


## BCS

Battery Control System

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

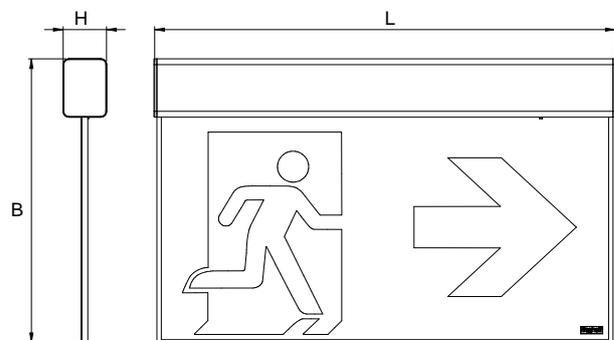
- Power** 2W, 3W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, ISO 7010
- Protection grade** IP40
- Autonomy** 1h, 1,5h, 2h, 3h, 8h
- Working temp.** -20°C ÷ +50°C (Titanium Battery)
- Mounting** wall, suspended ceiling, ceiling with stems and cables wall bracket, suspended ceiling, three-phase binary
- Housing** White Polycarbonate, RAL 9003
- Optics** high-efficiency back light system
- Light source** LED



## 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.



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

### Accessories

supplied

Order code	Description
-	DIFFUSERS RIGHT, LEFT, DOWN
-	UNIVERSAL CLAMP

### Accessories

to be ordered separately

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

## 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:** -20°C ÷ +50°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

### System Modules

to be ordered separately

Order code	Description	
15036	LG MODULE	LG
15037	LGFM MODULE	LGFM
15038	DALI MODULE ***	

**DALI**  
MODULE  
15038

**LG**  
MODULE  
15036

**LGFM**  
MODULE  
15037

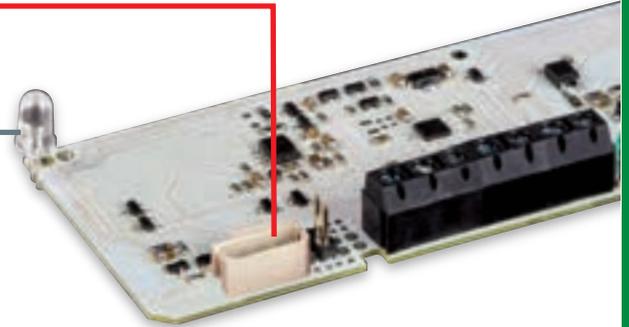
MODULES AVAILABLE TO EXTEND THE SYSTEM CONTROL TO LG, LGFM, DALI



INTELLIGENT PHOTOSENSOR SUPPLIED

**opticom**  
TECHNOLOGY

Smartphone interface  
to control and set up the 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 m	N° LED	Absorption max W	Weight kg	Pack
2	<b>4380</b>	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	<b>4381</b>	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** \*\*\* ith System Module - Order code 15038

UP-LED  
EXIT



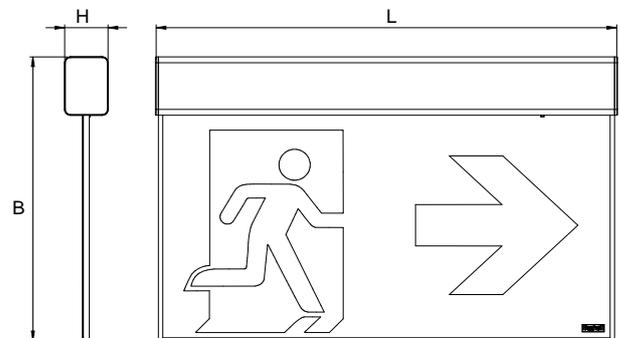
#### GENERAL CHARACTERISTICS

- Power** 2W, 3W, 6W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), RM
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, EN 50172, ISO 7010
- Protection grade** IP40
- Autonomy** 1h, 2h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** wall, suspended ceiling, ceiling with tiges, wall suspended, three-phase binary
- Housing** White Polycarbonate, RAL 9003
- Optics** high-efficiency back light system
- Light source** 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 W	Visibility distance (DV) 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
-	DIFFUSERS 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
4312	ACCESSORY CEILING RECESS 20m
4313	ACCESSORY CEILING RECESS 30m
4315	ACCESSORY SUSPENSION WITH RODS L250
4316	ACCESSORY SUSPENSION WITH RODS L500
4317	ACCESSORY SUSPENSION WITH RODS L1000
14771	ACCESSORY SUSPENSION WITH CABLES
19045	WALL SUSPENDED BRACKET (ONLY FOR 60M MODEL)
4319	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

**THREE-PHASE BINARY MOUNTING**



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

**BCS** Battery Control System

W	Order code	Description	Model	Autonomy	Battery	Visibility distance m	N° LED	Absorption max W	Weight kg	Pack 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 new exit signs range is designed to combine a nice aesthetics and functionality.

The legend frame is made of aluminium and the screen is made of plexiglass. This choice lets to get a luminaire really compact , able to show the wayout with the correct brightness in every enviromental conditions.

# 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, Maintained (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, EN 1838, EN 50172, ISO 7010
<b>Protection grade</b>	IP40 single-side 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



<i>Wall double-side version</i>				<i>Ceiling double-side version</i>				<i>Recessed single-side version</i>				<i>Wall single-side version</i>			
DV	L	B	H	DV	L	B	H	DV	L	B	H	DV	L	B	H
20	266	252	36	20	235	166	36	20	235	135	15	20	235	135	38

### Accessories

supplied

Order code	Description
-	DIFFUSER RIGHT/LEFT/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
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 ON CEILING



Recess hole: 297x43 mm

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

**Double-side 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

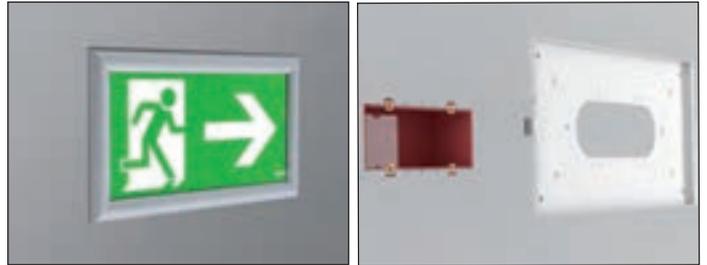
Mains voltage power supply (AC 230V 50 Hz - DC 216V)

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

## 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 (AC 230V 50 Hz - DC 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	

## 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, Maintained (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, EN 1838, EN 50172, ISO 7010

**Protection grade** IP40 single-side version, IP41 suspended version

**Autonomy** 1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions

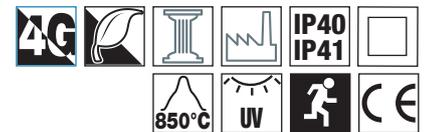
**Working temp.** 0°C ÷ +40°C

**Mounting** wall, suspended ceiling, ceiling with rods, suspended on wall

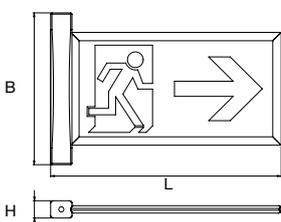
**Housing** Aluminium frame and Polycarbonate bracket RAL 7035

**Optics** high-efficiency back light system

**Light source** LED

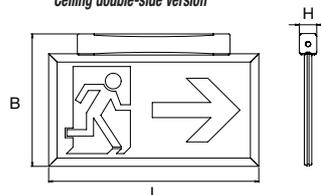


Wall double-side version



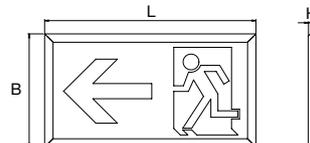
DV	L	B	H
30	366	252	36

Ceiling double-side version



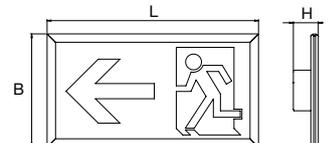
DV	L	B	H
30	335	216	36

Recessed single-side version



DV	L	B	H
30	335	185	15

Wall single-side 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

## WALL BRACKET MOUNTING



## SUSPENDED MOUNTING ON CEILING



## 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

*to be ordered separately*

**19382** RODS 1000MM INDICA DF

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

**Double-side 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	

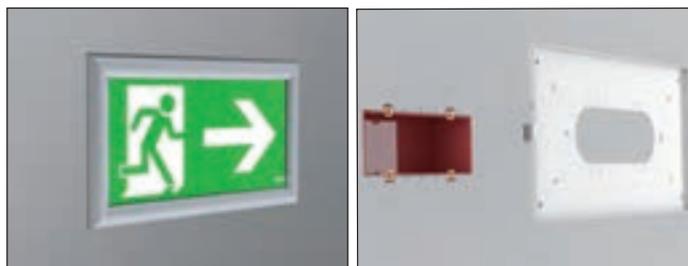
SICURO 24V										
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack	
3,2	<b>17494</b>	INDICA LED DF30M SLGS 24V	-	-	-	48	3,7	0,8	6	

HT										Mains voltage power supply (AC 230V 50 Hz - DC 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	

### 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
1,6	<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 (AC 230V 50 Hz - DC 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

## 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

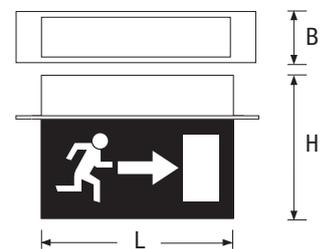
Installation on recessed and suspended ceiling recessed with bracket.



### GENERAL CHARACTERISTICS

- Power\*** 8 W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Not Maintained (SE)  
Rest Mode (RM)
- Standard** EN 60598-1, EN 60598-2-22,  
EN 1838, EN 60598-2-2, EN 50172
- Protection grade** IP40
- Autonomy** 1h, 3h
- Working temp.** 0°C ÷ +40°C
- Mounting** recessed on suspended ceiling
- Housing** steel sheet
- Screen** high transparency tempered glass
- Optics** high-efficiency back light system
- Light source** LED

\* Indicative power for comparison with fluorescent tube fixtures



Power* W	• Dimensions (mm) •			Recess hole	Vd 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 RECESSED CEILING MOUNTING



- SUSPENDED RECESSED CEILING BRACKET supplied

## LG

Logica

	W*	Order code	Description	Model	Autonomy	N° LED	Battery	Absorption max. W	Weight kg	Pack
<b>H</b>	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
<b>H</b>	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-side

## LGFM

Logica FM

	W*	Order code	Description	Model	Autonomy	N° LED	Battery	Absorption max. W	Weight kg	Pack
<b>H</b>	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
<b>H</b>	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-side

## SLG

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

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

## HT

Mains voltage power supply (AC 230V 50 Hz - DC 216V)

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

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



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.



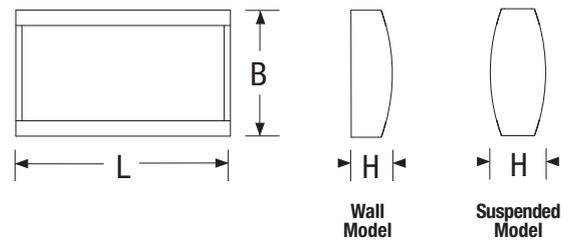
#### GENERAL CHARACTERISTICS

<b>Power</b>	2 W
<b>Power supply</b>	230Vac ± 10% 50Hz
<b>Operation</b>	Maintained (SA), Not Maintained (SE), HT
<b>Standard</b>	EN 60598-1, EN 60598-2-22, EN 1838
<b>Protection grade</b>	IP54, IK05
<b>Autonomy</b>	1h, 3h
<b>Working temp.</b>	0°C ÷ +40°C
<b>Mounting</b>	wall, suspension, electric rail, suspended
<b>Housing</b>	white Polycarbonate
<b>Screen</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 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-side wall mounted version and dual-side 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 W	• Dimensions (mm) •			VD 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
8462	ADHESIVE DOUBLE SIDED LEFT, RIGHT, DOWN

## Accessories

to be ordered separately

Order code	Description
3723	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-side 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	Absorption max. W	Weight kg	Pack
<b>H</b>	2	<b>17363</b>	Maxima B SLG 2LED	LED	-	-	2	7,5/3,5	1.0	1

### HT

Mains voltage power supply (AC 230V 50 Hz - DC 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-side 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	Absorption max. W	Weight kg	Pack
<b>H</b>	2	<b>17362</b>	Maxima M SLG 2LED	LED	-	-	2	7,5/3,5	1.0	1

### HT

Mains voltage power supply (AC 230V 50 Hz - DC 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-side configuration near the side exits





# Autotest System:

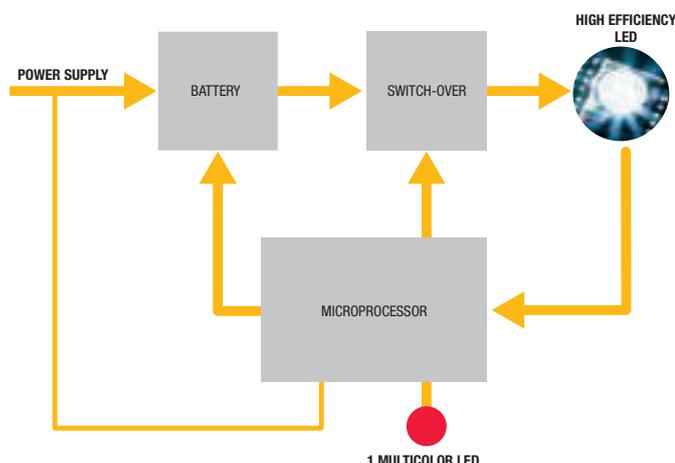
Lamp control  
with the Opticom solution it complies to  
with multicolor LED  
Regulation EN 50172, EN 62034



## "Inibit" remote control

Rest Mode Control. It's used to disable emergency and keep batteries charged.

# AT - AutoTest: selfdiagnostic 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 EN 62034.

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.

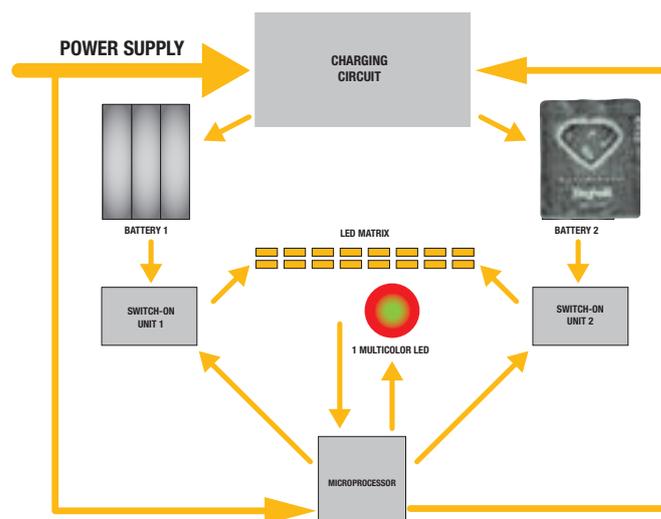
AutoRipare luminaires can be installed in existing emergency lighting systems and does not require extra wiring.

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 fixtures can be installed in existing emergency lighting systems without requiring the laying of further wiring.

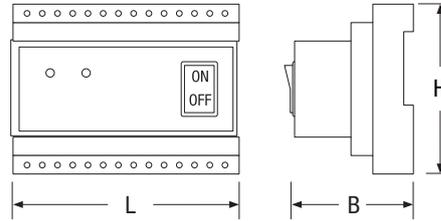


## AUTORIPARA EXTRA BATTERY

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

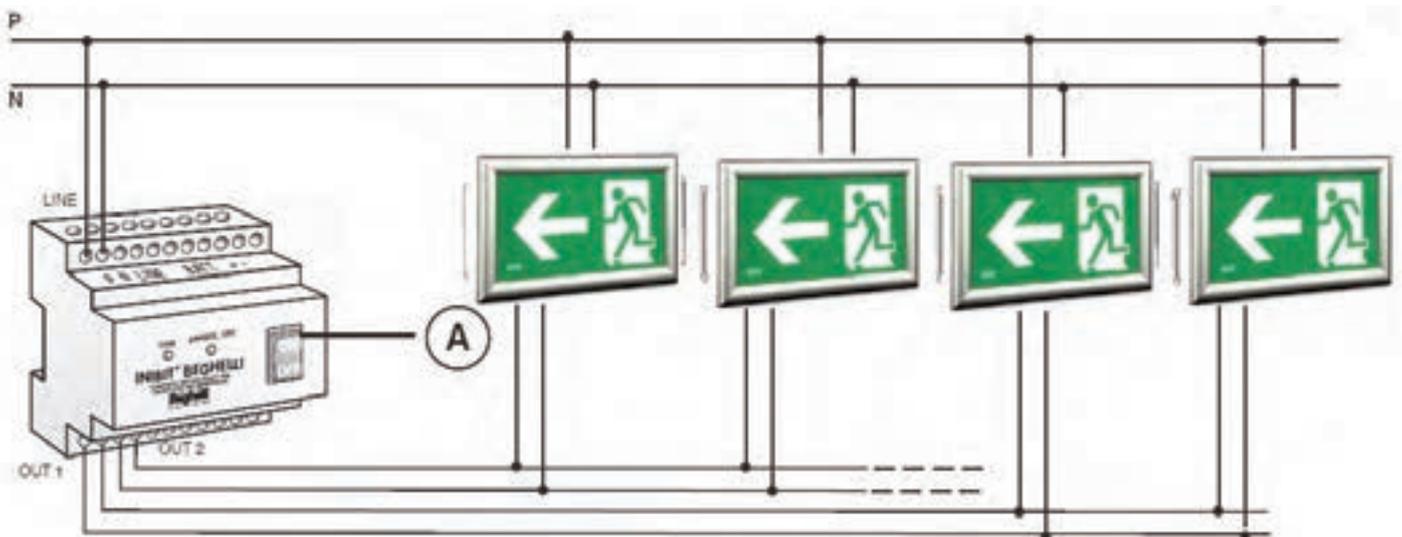


• Dimensions (mm) •		
L	B	H
150	70	90

## AT RM

Autotest - Rest Mode

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





# Logica LG:

The Beghelli wired system for  
 Principle  
 self-contained batteries  
 optimisation  
 luminaires



## 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.



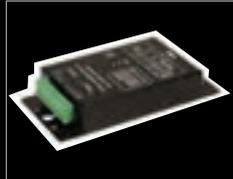
## Ethernet/RS485 Converter

To join LOGICA to LAN (ethernet)



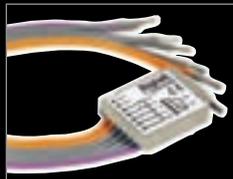
## WiFi/RS485 Converter

To join LOGICA to LAN (ethernet / wifi)



## 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.



## MODBUS RTU / MODBUS Converter

Device to interlace LOGICA to MODBUS TCP



## Modem GSM for PC side

Incredibiler gulosus apparatus bellis circumgrediet saburre, iam

# LG - Logica: the multifunctional wired addressable centralized system

## AUTOMATES THE PROCEDURES LISTED BY STANDARD EN62034

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 EN62034 specifies the procedures for the periodic checking, maintenance, overhaul and commissioning of emergency fixtures.**

### LOGICA CENTRAL UNIT , STANDARD VERSION

It's the STANDARD version. To control Emergency lighting and DALI lighting.

### LOGICA CENTRAL UNIT, LIGHT / LUCI VERSION (italian / english)

It's a special version developed to integrate more features about lighting, like DALI photosensors 12137, actuators module 12142 and DALI on/off/dimmer circuit board code 12138.

### LOGICA CENTRAL UNIT, MODBUS VERSION (italian / english)

It's the special version developed to interfaced LOGICA system with MODBUS BMS. If more than 1 central unit MODBUS is required , it's better to interface LOGICA system through SUPERVISION unit.

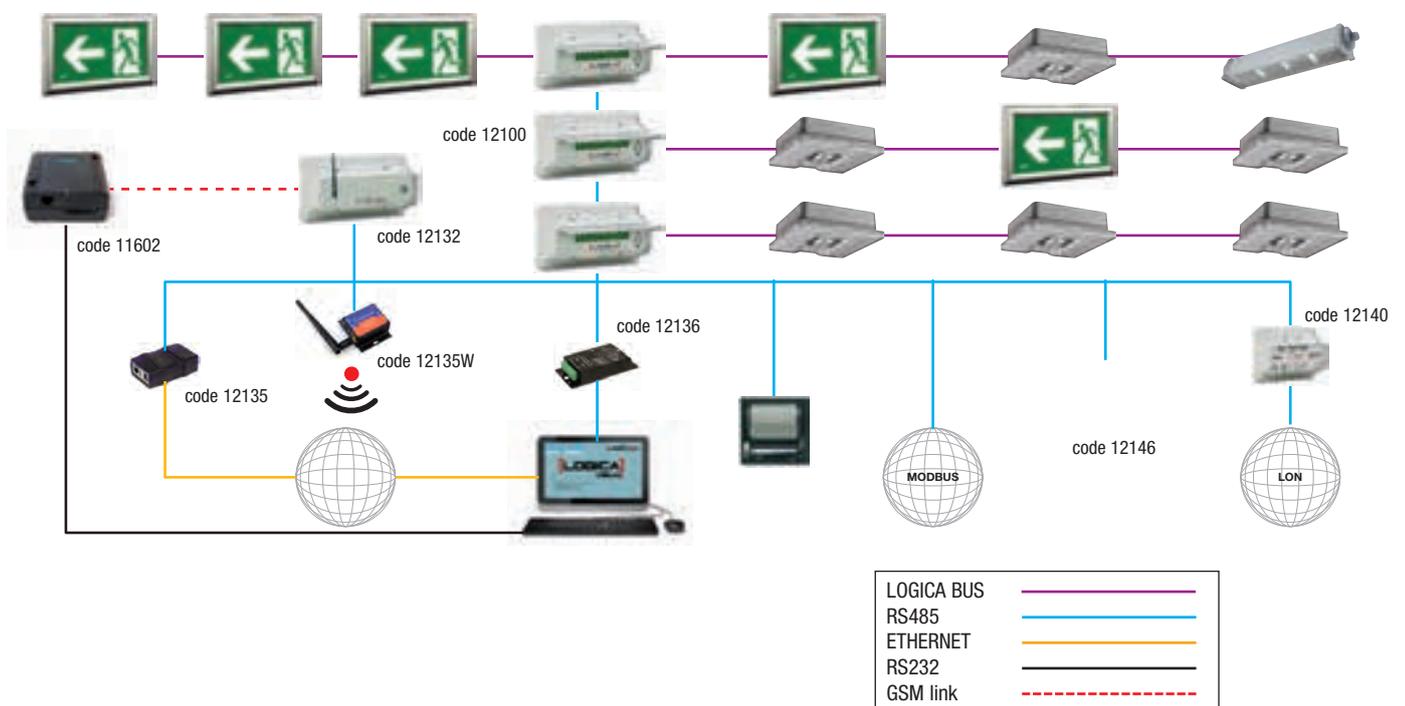
### LOGICA CENTRAL UNIT, LON VERSION (italian / english)

It's the special version developed to interface LOGICA system with LON BMS. Each 2 LON central units is required a LON interface code 12140

- WIRED System. Central unit and luminaires are in communication via wired BUS.
- Each central unit is able to control up to 128 luminaires (physical addressable limit ) but Beghelli recommends to always consider

not more than 100 luminaires under each central unit.

- Modular system. It's possible to connect up to 32 central units via RS485 to control up to 3200 luminaires.
- LOGICA Emergency luminaires stand alone are AT ( autotest ) but when they are connected to a central unit via bus they become LOGICA central test.
- Settings ( functional and duration tests, groups, odd/even , password, new configuration )
- Operations ( Run tests , schedule tests, check errors , check status )
- Central unit lets to use software Logica Visual to MONITOR and control the plant / plants.
- System can be remote reached via Ethernet or GSM.
- System is capable to be interfaced with MODBUS and LON BMS ( building automation systems)
- 4 different versions : STANDARD, LIGHTS, MODBUS, LON
- LOGICA Central unit is able to manage emergency lighting and to control DALI lighting ( \*\*\*contact Beghelli sales network for more informations ).
- LOGICA unit is not a 100% DALI controller compatible , but It's able to run the most important operations for lighting (groups, scenes, etc.). Addressable DALI luminaires limit is 64 but LOGICA is able to control 36 additional LOGICA luminaires under the same bus / central unit.
- In the SUPERVISION architecture, LOGICA central units are controlled by an high performance unit ( SUPERVISION UNIT ) able to control up to 32 LOGICA control units and to centralize settings and to collect and store all the test results for 2 years ( LOGBOOK )
- It's possible to connect via RS485 up to 32 Supervision Units, each one able to control up to 32 LOGICA central units, each one able to control up to 100 luminaires. So the addressable limit for the wired LOGICA system is 102.400 luminaires / devices.

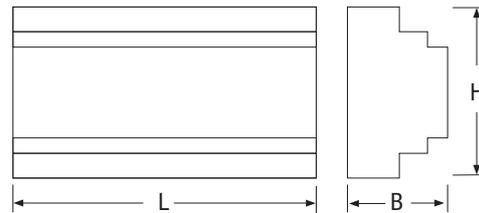




## Logica Central Unit

Logica control unit for centralised remote control of emergency systems equipped with up to 128 devices via 2-wire non-polarised BUS. The correct number that Unit is able to manage is 128 if all the luminaires are SE and bus is well designed. Beghelli suggests to consider not more than 100 devices. Central unit can also manage up to 64 DALI device or a mix of LOGICA and DALI. Occupies 9 DIN modules. Equipped with two RS232 ports for remote connection. Command display with scroll menu. Can be interfaced with MODBUS systems (RTU).

ORDER CODE	IDIOMA (std. version)
12100	ITALIAN
12100GB	ENGLISH
12100D	GERMAN
12100F	FRENCH
12100CZ	CZECK
12100P	PORTUGUESE
12100NL	DUTCH
12100SLO	SLOVENIAN
12100PL	POLISH



• Dimensions (mm) •		
L	B	H
160	75	90

LG

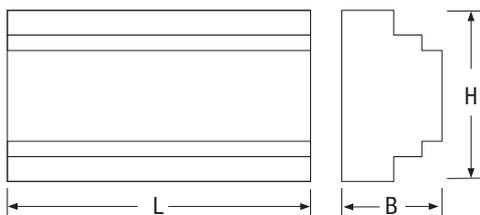
Logica

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 2 years tests memory (LOGBOOK) with scrolling print menu. It Device to upgrade LOGICA and LOGICA FM central unit (12100 and 12128) to remote GSM communication. 9 DIN modules. 2 years tests memory (LOGBOOK)



• Dimensions (mm) •		
L	B	H
160	75	90



LG

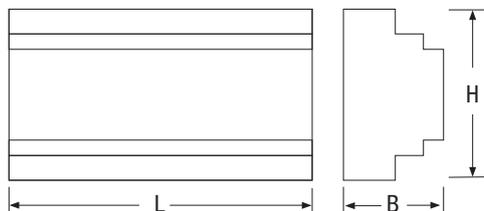
Logica

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

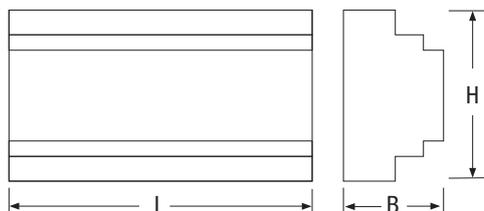
Logica

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



## GSM Interface

Device to upgrade LOGICA and LOGICA FM Central Unit (12100 and 12128) to remote GSM communication. 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



## Modem GSM per Computer

GSM modem for PC. With this device it's possible to connect to installation via GSM to check it. The receiver is the GSM 12132 directly connected to LOGICA central unit.

• Dimensions (mm) •		
L	B	H
150	75	26



LG

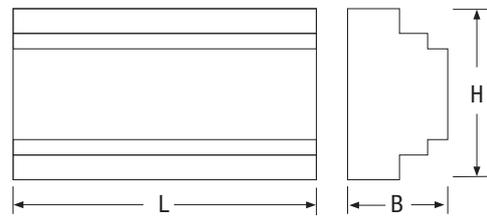
Logica

Order code	Description	Autonomy	Battery	Weight kg	Pack
11602	MODEM GSM x COMPUTER	xx	xx	-	1

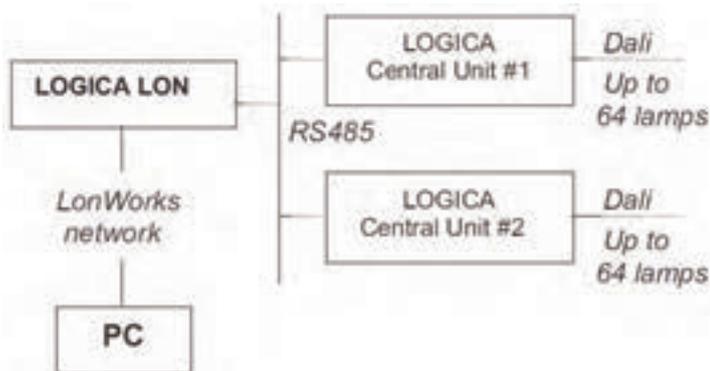


## LON interface

Device to interface LOGICA to LON building management system. Each LON interface 12140 can control up to 2 LOGICA central units 12100 (central units 12100 require firmware version LON).



• Dimensions (mm) •		
L	B	H
105	75	90



LG

Logica

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



## USB to RS485/RS232 Converter

Converter is Optoinsulated to protect USB side and COMPUTER in case of overvoltage damage on RS232/485 side.

• 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
12135	RS485 ETHERNET CONVERTER	0.5	1



## RS485 / WIFI Converter

It's the device to connect to central units via wireless.

• Dimensions (mm) •		
L	B	H
xx	xx	xx



LG

Logica

Order code	Description	Weight kg	Pack
12135W	RS485 / WIFI 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
12134	DIN RS232/RS485 CONVERTER	0.4	1



## ModBus RTU/ModBus TCP converter

This device is used to convert MODBUS RTU to MODBUS TCP. Logica central unit MODBUS firmware version has an RS485 output in MODBUS RTU, so to convert it to MODBUS BMS via LAN / ethernet ) this device is required.

• Dimensions (mm) •		
L	B	H
xx	xx	xx



LG

Logica

Order code	Description	Weight kg	Pack
12146	MODBUS RTU - MODBUS TCP CONVERTER	0.2	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	Weight kg	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
12137	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
12099	DIN LOGICA TTL PRINTER	12100 (RS485)	0.7	1
3284	DIN 9437 RS232 PRINTER	12128-12131 (RS232)	0.7	1



## Opticom additional modules

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.

- The **LG Module** is used to centralise control of the system via a BUS and control unit system
- The **DALI module** is used to control the system via a DALI protocol

LG

Logica

Order code	Description	Weight kg	Pack
15036	LG MODULE	-	1

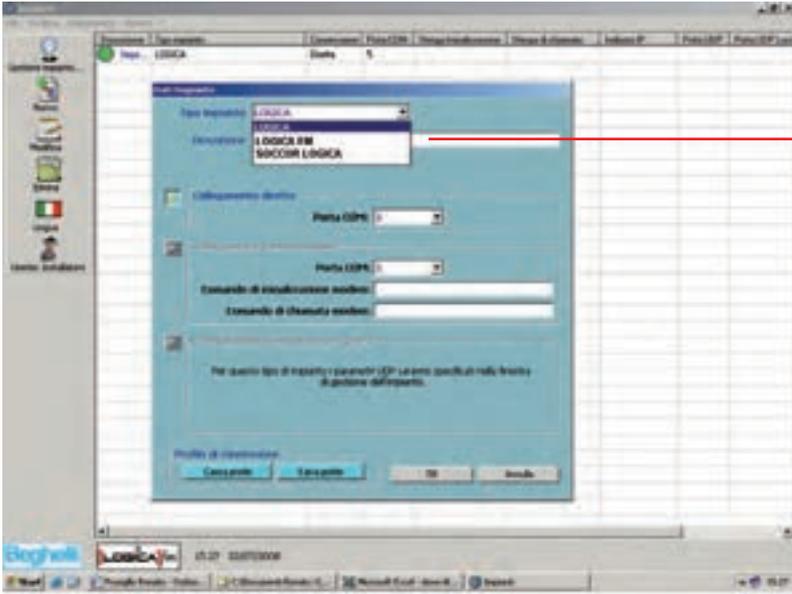
DALI

Order code	Description	Weight kg	Pack
15038	DALI MODULE	-	1



# LOGICA VISUAL Software

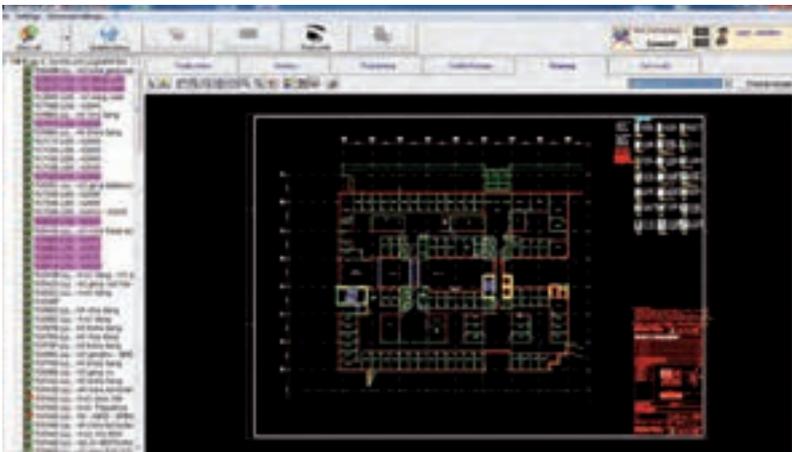
Software designed to manage lighting and emergency lighting. DALI, LOGICA, LOGICA FM, SICURO 24 and SOCCORLOGICA SYSTEM can be monitored and controlled via LOGICA VISUAL. Layouts may be imported in standard DWG formats and luminaires can be PLACED on maps. Reports can be automatically generated and stored in the software database to record the events to track the system history.



LOGICA VISUAL software can manage

**LG**  
**LGFM**

fixtures



## LG Logica

Order code	Description	Weight	Pack
12139	LOGICA VISUAL SOFTWARE		-

### System Modules to be ordered separately

Order code	Description	
15036	LG MODULE	LG
15037	LGFM MODULE	LGFM
15038	DALI MODULE	DALI



# LGFM System: Fast and easy setup Wireless system for emergency lighting



## Ethernet/RS485 Converter

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.



## WiFi/RS485 Converter

To join LOGICA to LAN (ethernet / wifi)



## 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.



## MODBUS RTU / MODBUS Converter

Device to interace LOGICA to MODBUS TCP



## Modem GSM for PC side

Incredibiliter gulosus apparatus bellis circumgrediet saburre, iam



## SDManager software

Software used to monitor and manage lighting and emergency lighting. It works with central unit codes 20102 and 20124



## Building Automation central unit

lighting and emergency lighting



## Logica FM 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.



## GSM Interface

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



## USB/RS485 Converter

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

# LGFM - Logica FM: the wireless centralized system

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

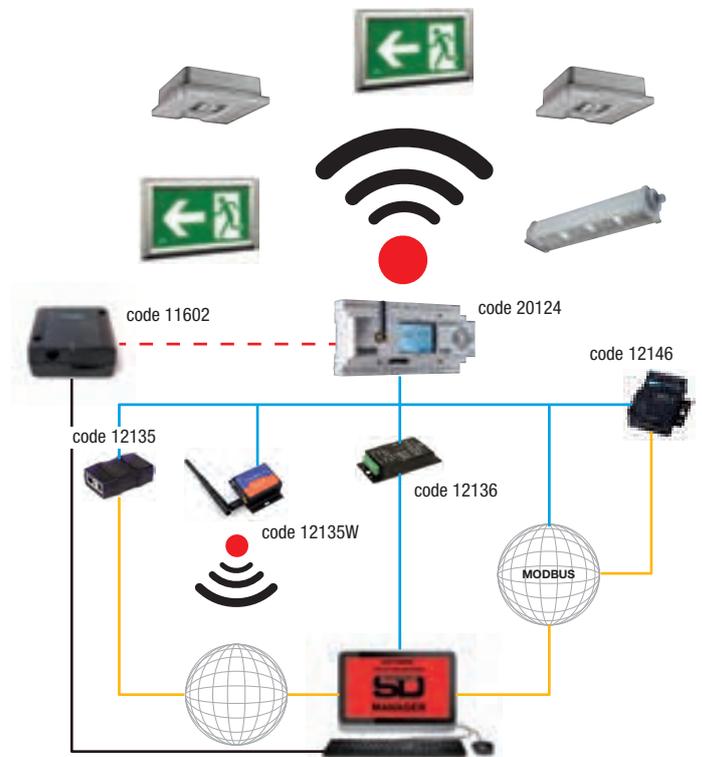
Central Unit manages up to 500 radio fixtures, ranging from lamps for lighting and emergency applications to domotics devices.

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

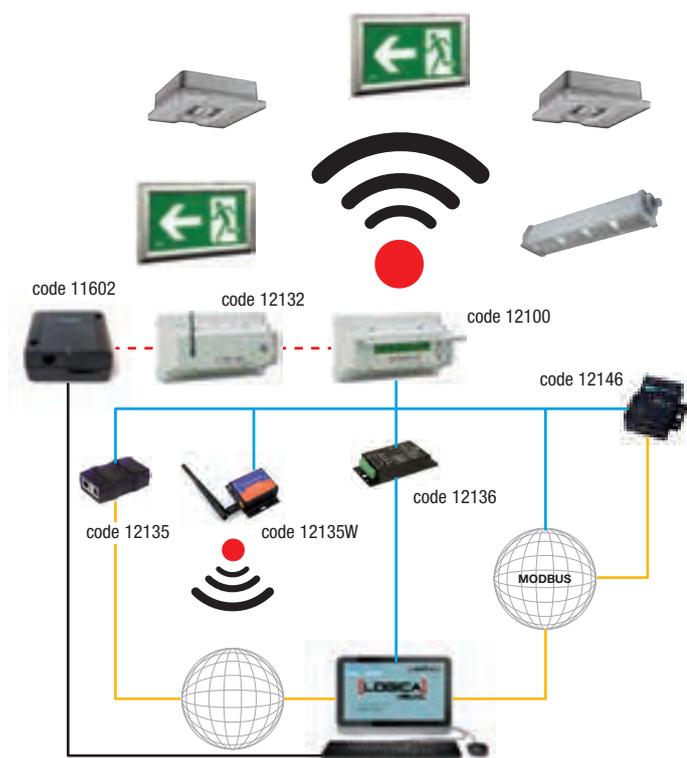
The radio waves used by the Logica FM system have very low power to avoid any type of interference and electromagnetic pollution. The power involved in the radio communications is less than one hundredth of the power emitted by an ordinary cell phone.

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 and with new radio equipment directive RED 2014/53/EU.



**Central Unit 20102 works with SD Manager Software**



**Central Unit 12128 works with Logica Visual Software**

RS485	— (Blue line)
ETHERNET	— (Yellow line)
RS232	— (Black line)
GSM link	- - - (Red dashed line)

## 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,

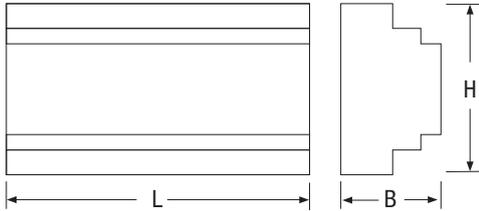
all commands can be grouped into a single control unit, which can also run tests and control and dim SA devices, as well as inhibiting emergency function and signalling any malfunctions. The management software interface used is SD Manager, supplied with the unit.



# Building automation central Unit

## Lighting and Emergency lighting

Central unit control Lighting and emergency lighting. The software SD Manager is included.  
Central unit is equipped with GSM modem integrated.



• Dimensions (mm) •		
L	B	H
160	75	90



## LGFM (emergency lighting and lighting )

Logica FM

Order code	Description	Weight kg	Pack
20102	BUILDING AUTOMATION CENTRAL UNIT	-	1
20124	BUILDING AUTOMATION CENTRAL UNIT + WIFI	-	1

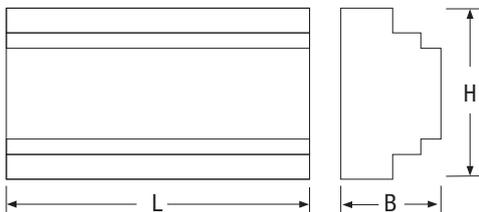


# Logica FM Control Unit

## Emergency lighting

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 to upgrade LOGICA and LOGICA FM Central Unit (12100 and 12128) to remote GSM communication. 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



## Modem GSM per Computer

GSM modem for PC. With this device it's possible to connect to installation via GSM to check it. The receiver is the GSM 12132 directly connected to LOGICA central unit.

## LGFM

Logica FM

Order code	Description	Autonomy	Battery	Weight kg	Pack
11602	MODEM GSM x COMPUTER	xx	xx	-	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
12136	RS485 USB CONVERTER	0.5	1



## RS485 / WIFI Converter

It's the device to connect to central units via wireless.

LGFM

Logica FM

Order code	Description	Weight kg	Pack
12135W	RS485 / WIFI CONVERTER	0.2	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



## ModBus RTU / ModBus

This device it's used to convert MODBUS RTU to MODBUS TCP. Logica central unit MODBUS firmware version has an RS485 output in MODBUS RTU, so to convert it to MODBUS BMS via LAN / ethernet) this device is required.

LGFM

Logica FM

Order code	Description	Weight kg	Pack
12146	MODBUS RTU - MODBUS TCP CONVERTER	0.2	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.  
**IMPORTANT:** New radio modules have 8 digit instead 6.

• Dimensions (mm) •		
L	B	H
80	12	19



### LGFM

Logica FM

Order code	Description	Weight kg	Pack
12130	LOGICA FM RADIO CIRCUIT	0.1	1



## Opticom additional modules

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.

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

### LGFM

Logica FM

Order code	Description	Weight kg	Pack
15037	LGFM MODULE	-	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
12099	DIN LOGICA TTL PRINTER	12100 (RS485)	0.7	1
3284	DIN 9437 PRINTER RS232	12128-12131 (RS232)	0.7	1



## Logica Visual software

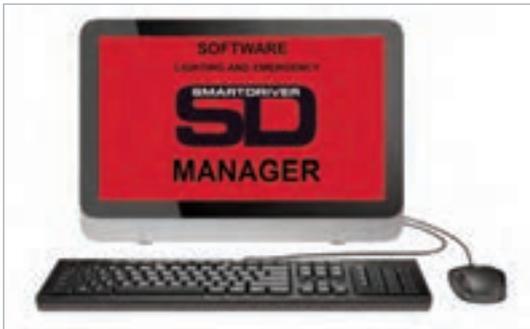
Software designed to manage lighting and emergency lighting. DALI, LOGICA, LOGICA FM, SICURO 24 and SOCCORLOGICA SYSTEM can be monitored and controlled via LOGICA VISUAL. Layouts may be imported in standard DWG formats and luminaires can be PLACED on maps. Reports can be automatically generated and Stored in the software database to record the events to track the system history. LOGICA VISUAL can be used to control systems controlled by logica fm cu (12128) and Logica cu (12100)



LG

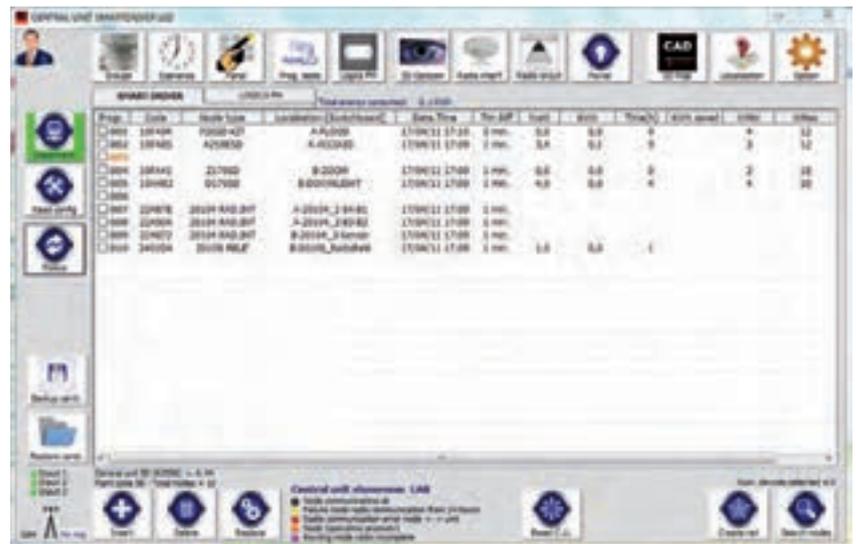
Logica

Order code	Description	Weight	Pack
12139	LOGICA VISUAL SOFTWARE		-



## SD MANAGER software

SD manager is a software designed to work with automation central unit code 20102. SD manager is able to control lighting and monitor emergency lighting. It's possible to place luminaires on a DWG map. Software is used to setup a new installation, to create groups, to control lighting, to schedule test and check results and moreover.



LG

Logica

Order code	Description	Weight	Pack
20109	SD MANAGER SOFTWARE		-

# Battery Order Codes ordered by Fixture Order Code

Fixture order code	Battery order code	Battery description	Fixture order code	Battery order code	Battery description	Fixture order code	Battery order code	Battery description
1455	8803	PB 6V 5AH FASTON 6.35	2082	8803	PB 6V 5AH FASTON 6.35	2128	8802	PB 6V 4.5AH FASTON 6.35
1456	8803	PB 6V 5AH FASTON 6.35	2084	8803	PB 6V 5AH FASTON 6.35	2129	8802	PB 6V 4.5AH FASTON 6.35
1457	8803	PB 6V 5AH FASTON 6.35	2085	8803	PB 6V 5AH FASTON 6.35	2130	8802	PB 6V 4.5AH FASTON 6.35
1458	8803	PB 6V 5AH FASTON 6.35	2086	8803	PB 6V 5AH FASTON 6.35	2131	8802	PB 6V 4.5AH FASTON 6.35
1459	8802	PB 6V 4.5AH FASTON 6.35	2087	8803	PB 6V 5AH FASTON 6.35	2132	8803	PB 6V 5AH FASTON 6.35
1460	8802	PB 6V 4.5AH FASTON 6.35	2098	8802	PB 6V 4.5AH FASTON 6.35	2133	8802	PB 6V 4.5AH FASTON 6.35
1461	8802	PB 6V 4.5AH FASTON 6.35	2099	8802	PB 6V 4.5AH FASTON 6.35	2134	8802	PB 6V 4.5AH FASTON 6.35
1462	8802	PB 6V 4.5AH FASTON 6.35	2100	8802	PB 6V 4.5AH FASTON 6.35	2135	8802	PB 6V 4.5AH FASTON 6.35
1463	8803	PB 6V 5AH FASTON 6.35	2101	8802	PB 6V 4.5AH FASTON 6.35	2136	8803	PB 6V 5AH FASTON 6.35
1464	8803	PB 6V 5AH FASTON 6.35	2102	8802	PB 6V 4.5AH FASTON 6.35	2137	8803	PB 6V 5AH FASTON 6.35
1465	8803	PB 6V 5AH FASTON 6.35	2103	8802	PB 6V 4.5AH FASTON 6.35	2138	8803	PB 6V 5AH FASTON 6.35
1466	8803	PB 6V 5AH FASTON 6.35	2104	8802	PB 6V 4.5AH FASTON 6.35	2139	8803	PB 6V 5AH FASTON 6.35
1467	8802	PB 6V 4.5AH FASTON 6.35	2105	8802	PB 6V 4.5AH FASTON 6.35	2140	8802	PB 6V 4.5AH FASTON 6.35
1468	8802	PB 6V 4.5AH FASTON 6.35	2106	8802	PB 6V 4.5AH FASTON 6.35	2141	8802	PB 6V 4.5AH FASTON 6.35
1469	8803	PB 6V 5AH FASTON 6.35	2107	8802	PB 6V 4.5AH FASTON 6.35	2142	8802	PB 6V 4.5AH FASTON 6.35
1470	8803	PB 6V 5AH FASTON 6.35	2108	8802	PB 6V 4.5AH FASTON 6.35	2143	8802	PB 6V 4.5AH FASTON 6.35
1499	8799	PB 6V 2.8AH CABLE 5023	2109	8802	PB 6V 4.5AH FASTON 6.35	2144	8802	PB 6V 4.5AH FASTON 6.35
1589	3914	PB 6V 1.3AH	2110	8803	PB 6V 5AH FASTON 6.35	2145	8802	PB 6V 4.5AH FASTON 6.35
1590	415088000	NC HT 3.6V 2AH C PACCO	2111	8803	PB 6V 5AH FASTON 6.35	2146	8803	PB 6V 5AH FASTON 6.35
1591	8801	PB 6V 4AH PER PORTATILI	2112	8802	PB 6V 4.5AH FASTON 6.35	2147	8802	PB 6V 4.5AH FASTON 6.35
1596	8815H	NC HT 3.6V 0.75AH AA STILO	2113	8802	PB 6V 4.5AH FASTON 6.35	2148	8802	PB 6V 4.5AH FASTON 6.35
1596	415054000	NC 3.6V 800MAH A STILO	2114	8802	PB 6V 4.5AH FASTON 6.35	2149	8802	PB 6V 4.5AH FASTON 6.35
1599	8801	PB 6V 4AH PER PORTATILI	2115	8802	PB 6V 4.5AH FASTON 6.35	2150	8803	PB 6V 5AH FASTON 6.35
1600	8801	PB 6V 4AH PER PORTATILI	2116	8802	PB 6V 4.5AH FASTON 6.35	2151	8803	PB 6V 5AH FASTON 6.35
1605	8802	PB 6V 4.5AH FASTON 6.35	2117	8802	PB 6V 4.5AH FASTON 6.35	2152	8803	PB 6V 5AH FASTON 6.35
1606	3916	PB 6V 6.5AH	2118	8803	PB 6V 5AH FASTON 6.35	2153	8803	PB 6V 5AH FASTON 6.35
1607	415033000	NC HT 6V 4AH D PACCO	2119	8803	PB 6V 5AH FASTON 6.35	2154	8802	PB 6V 4.5AH FASTON 6.35
1610	8802	PB 6V 4.5AH FASTON 6.35	2120	8803	PB 6V 5AH FASTON 6.35	2155	8802	PB 6V 4.5AH FASTON 6.35
1611	415033000	NC HT 6V 4AH D PACCO	2121	8803	PB 6V 5AH FASTON 6.35	2156	8802	PB 6V 4.5AH FASTON 6.35
1612	8802	PB 6V 4.5AH FASTON 6.35	2122	8803	PB 6V 5AH FASTON 6.35	2157	8802	PB 6V 4.5AH FASTON 6.35
1613	8801	PB 6V 4AH PER PORTATILI	2123	8803	PB 6V 5AH FASTON 6.35	2158	8802	PB 6V 4.5AH FASTON 6.35
1614	8801	PB 6V 4AH PER PORTATILI	2124	8803	PB 6V 5AH FASTON 6.35	2159	8802	PB 6V 4.5AH FASTON 6.35
2079	8803	PB 6V 5AH FASTON 6.35	2125	8803	PB 6V 5AH FASTON 6.35	2160	8802	PB 6V 4.5AH FASTON 6.35
2080	8803	PB 6V 5AH FASTON 6.35	2126	8802	PB 6V 4.5AH FASTON 6.35	2161	8802	PB 6V 4.5AH FASTON 6.35
2081	8803	PB 6V 5AH FASTON 6.35	2127	8802	PB 6V 4.5AH FASTON 6.35	2166	8802	PB 6V 4.5AH FASTON 6.35

Fixture order code	Battery order code	Battery description	Fixture order code	Battery order code	Battery description	Fixture order code	Battery order code	Battery description
2167	8802	PB 6V 4.5AH FASTON 6.35	2509	8824	NC HT 6V 4AH D STILO	4391	415433001	LTO 7.2V 0.5AH PACK
2168	8802	PB 6V 4.5AH FASTON 6.35	2730	415061000	NC 6V 500MAH S 2/3A A DIS	8475	415072100	NC HT 3.6V 0.75AH AA PACCO
2169	8802	PB 6V 4.5AH FASTON 6.35	3001	415020100	NC HT 7.2V 1.2AH SC 2 STILO	8584	415139100	PB 6V 4AH SLIM + CABLE 5264
2170	8803	PB 6V 5AH FASTON 6.35	3002	415020100	NC HT 7.2V 1.2AH SC 2 STILO	8585	415139100	PB 6V 4AH SLIM + CABLE 5264
2171	8803	PB 6V 5AH FASTON 6.35	3004	3914	PB 6V 1.3AH	8586	415139100	PB 6V 4AH SLIM + CABLE 5264
2172	8803	PB 6V 5AH FASTON 6.35	3280	415072100	NC HT 3.6V 0.75AH AA PACCO	8587	415139100	PB 6V 4AH SLIM + CABLE 5264
2173	8803	PB 6V 5AH FASTON 6.35	3281	415072100	NC HT 3.6V 0.75AH AA PACCO	8590	415139100	PB 6V 4AH SLIM + CABLE 5264
2174	8803	PB 6V 5AH FASTON 6.35	4101	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	8591	415139100	PB 6V 4AH SLIM + CABLE 5264
2175	8803	PB 6V 5AH FASTON 6.35	4102	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	8592	8800	PB 6V 4AH SLIM + CABLAGGIO
2176	8803	PB 6V 5AH FASTON 6.35	4103	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	8593	8800	PB 6V 4AH SLIM + CABLAGGIO
2177	8803	PB 6V 5AH FASTON 6.35	4104	415097001	NI MH HT 3.6V1.2A AA PACK 5264	8594	415139100	PB 6V 4AH SLIM + CABLE 5264
2178	8803	PB 6V 5AH FASTON 6.35	4105	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	8595	415139100	PB 6V 4AH SLIM + CABLE 5264
2179	8803	PB 6V 5AH FASTON 6.35	4106	415097001	NI MH HT 3.6V1.2A AA PACK 5264	8596	415139100	PB 6V 4AH SLIM + CABLE 5264
2180	8803	PB 6V 5AH FASTON 6.35	4107	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12100	415072100	NC HT 3.6V 0.75AH AA PACCO
2181	8803	PB 6V 5AH FASTON 6.35	4108	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12101	415072100	NC HT 3.6V 0.75AH AA PACCO
2182	8802	PB 6V 4.5AH FASTON 6.35	4109	415097001	NI MH HT 3.6V1.2A AA PACK 5264	12102	8800	PB 6V 4AH SLIM + CABLAGGIO
2183	8802	PB 6V 4.5AH FASTON 6.35	4110	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12103	8800	PB 6V 4AH SLIM + CABLAGGIO
2184	8803	PB 6V 5AH FASTON 6.35	4111	415097001	NI MH HT 3.6V1.2A AA PACK 5264	12104	8800	PB 6V 4AH SLIM + CABLAGGIO
2185	8803	PB 6V 5AH FASTON 6.35	4200	415418001	LTO 4.8V 0.5AH 14500 PACK	12105	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
2186	8803	PB 6V 5AH FASTON 6.35	4201	415418001	LTO 4.8V 0.5AH 14500 PACK	12106	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
2187	8803	PB 6V 5AH FASTON 6.35	4202	415418001	LTO 4.8V 0.5AH 14500 PACK	12107	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
2188	8803	PB 6V 5AH FASTON 6.35	4203	415418001	LTO 4.8V 0.5AH 14500 PACK	12108	8803	PB 6V 5AH FASTON 6.35
2189	8803	PB 6V 5AH FASTON 6.35	4204	415418001	LTO 4.8V 0.5AH 14500 PACK	12109	8803	PB 6V 5AH FASTON 6.35
2190	8803	PB 6V 5AH FASTON 6.35	4258	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12110	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
2191	8803	PB 6V 5AH FASTON 6.35	4259	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12111	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
2192	8803	PB 6V 5AH FASTON 6.35	4260	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12112	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
2193	8803	PB 6V 5AH FASTON 6.35	4261	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12114	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
2194	8803	PB 6V 5AH FASTON 6.35	4262	415072301	NC HT 3.6V 0.75 AA PACK 5264 2	12115	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
2195	8803	PB 6V 5AH FASTON 6.35	4300	415049103	NC+CAB HT 3.6V 0.75AH AA 5264	12128	415072100	NC HT 3.6V 0.75AH AA PACCO
2197	8803	PB 6V 5AH FASTON 6.35	4301	415098001	NI MH HT 3.6V 1.2A AA 5264 2	12131	415072100	NC HT 3.6V 0.75AH AA PACCO
2198	8803	PB 6V 5AH FASTON 6.35	4302	415399001	NI MH HT 3.6V 1.5A AA STI 5264	12132	415072100	NC HT 3.6V 0.75AH AA PACCO
2502	8824	NC HT 6V 4AH D STILO	4303	415098001	NI MH HT 3.6V 1.2A AA 5264 2	12182	8800	PB 6V 4AH SLIM + CABLAGGIO
2503	8824	NC HT 6V 4AH D STILO	4304	415399001	NI MH HT 3.6V 1.5A AA STI 5264	12183	8800	PB 6V 4AH SLIM + CABLAGGIO
2504	8824	NC HT 6V 4AH D STILO	4370	415417001	LTO 4.8V 0.5AH 14500 STICK	12184	8800	PB 6V 4AH SLIM + CABLAGGIO
2505	8824	NC HT 6V 4AH D STILO	4371	415420001	LTO 4.8V 1AH 14500 STICK	12185	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
2506	8824	NC HT 6V 4AH D STILO	4372	415417001	LTO 4.8V 0.5AH 14500 STICK	12186	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
2507	8824	NC HT 6V 4AH D STILO	4373	415420001	LTO 4.8V 1AH 14500 STICK	12187	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
2508	8824	NC HT 6V 4AH D STILO	4390	415433001	LTO 7.2V 0.5AH PACK	12950	415219100	NC HT 4.8V 0.75AH PACCO

Fixture order code	Battery order code	Battery description
12951	415226000	NC HT 4.8V 1.7AH SC STILO
12952	8819H	NC HT 6V 0.75AH AA PACCO
12953	415168000	NC HT 7.2V 1.7AH SC STILO
12954	8819H	NC HT 6V 0.75AH AA PACCO
12955	415168000	NC HT 7.2V 1.7AH SC STILO
12956	415219100	NC HT 4.8V 0.75AH PACCO
12957	415226000	NC HT 4.8V 1.7AH SC STILO
12960	8819H	NC HT 6V 0.75AH AA PACCO
12961	415168000	NC HT 7.2V 1.7AH SC STILO
12962	8819H	NC HT 6V 0.75AH AA PACCO
12963	415168000	NC HT 7.2V 1.7AH SC STILO
12964	415226000	NC HT 4.8V 1.7AH SC STILO
12965	415168000	NC HT 7.2V 1.7AH SC STILO
12966	415226000	NC HT 4.8V 1.7AH SC STILO
12967	415168000	NC HT 7.2V 1.7AH SC STILO
15030	415391001	NIMH HT 7.2V 1.2AH AA 3+3 P
15031	415391001	NIMH HT 7.2V 1.2AH AA 3+3 P
15032	415344002	NIMH HT 7.2V 1.7A 4/5A P AMP
15033	415344002	NIMH HT 7.2V 1.7A 4/5A P AMP
19000	415049101	NC+CAB HT 3.6V 0.75AH AA ST328
19001	415147101	NC+CAB HT 3.6V 1.7AH SC ST 328
19002	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19003	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19004	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19005	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19006	415340001	NC HT 7.2V 0.75AH AA STICK 632
19007	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19008	415340001	NC HT 7.2V 0.75AH AA STICK 632
19009	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19010	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19011	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19012	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19013	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19020	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19021	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19022	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19023	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19024	415225001	NC+CAB HT 4.8V 0.75AH AA ST514

Fixture order code	Battery order code	Battery description
19025	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19026	415340001	NC HT 7.2V 0.75AH AA STICK 632
19027	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19028	415340001	NC HT 7.2V 0.75AH AA STICK 632
19029	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19030	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19031	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19032	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19033	415168002	NC+CAB EL 7.2V 1.7AH SC ST 627
19050	415049101	NC+CAB HT 3.6V 0.75AH AA ST328
19051	415147101	NC+CAB HT 3.6V 1.7AH SC ST 328
19052	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19053	415147101	NC+CAB HT 3.6V 1.7AH SC ST 328
19054	415225001	NC+CAB HT 4.8V 0.75AH AA ST514
19055	415226001	NC+CAB HT4.8V 1.7AH SC ST 514
19056	415147101	NC+CAB HT 3.6V 1.7AH SC ST 328
19057	415264000	NC HT 6V 1.7AH SC STILO
19058	415264000	NC HT 6V 1.7AH SC STILO
19200	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19201	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19202	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19203	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19204	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19205	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19206	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19207	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19208	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19209	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19210	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19211	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19212	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19213	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19234	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19234	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19235	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19235	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19236	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19236	415097001	NI MH HT 3.6V1.2A AA PACK 5264

Fixture order code	Battery order code	Battery description
19237	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19237	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19238	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19239	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19240	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19240	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19241	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19241	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19242	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19242	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19243	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
19243	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19245	415097001	NI MH HT 3.6V1.2A AA PACK 5264
19246	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19247	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19248	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19249	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19269	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19270	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19275	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19276	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
19290	415419001	LTO 4.8V 1.2AH 18650 PACK
19291	415419001	LTO 4.8V 1.2AH 18650 PACK
19292	415419001	LTO 4.8V 1.2AH 18650 PACK
19293	415419001	LTO 4.8V 1.2AH 18650 PACK
19294	415419001	LTO 4.8V 1.2AH 18650 PACK
19295	415419001	LTO 4.8V 1.2AH 18650 PACK
19296	415419001	LTO 4.8V 1.2AH 18650 PACK
12102FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12102H	415164000	NI MH HT 6V 4AH LA PACCO
12103FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12103H	415164000	NI MH HT 6V 4AH LA PACCO
12104FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12104H	415164000	NI MH HT 6V 4AH LA PACCO
12105FM	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
12106FM	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
12107FM	415227001	NC+CAB HT 7.2V 2.2AH C PAC 530
12108FM	8803	PB 6V 5AH FASTON 6.35

Fixture order code	Battery order code	Battery description
12109FM	8803	PB 6V 5AH FASTON 6.35
12110FM	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
12111FM	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
12112FM	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
12114FM	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
12115FM	415265000	NC HT 7.2V 2.2AH C PACCO 3/3
12182FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12183FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12184FM	8800	PB 6V 4AH SLIM + CABLAGGIO
12184FMS	415410001	NIMH HT 7.2V 4AH C PAC 530
12184S	415410001	NIMH HT 7.2V 4AH C PAC 530
12185FM	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
12186FM	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
12187FM	415409001	NIMH HT 7.2V 2.5AH SC PAC 530
12187FMS	415410001	NIMH HT 7.2V 4AH C PAC 530
12187S	415410001	NIMH HT 7.2V 4AH C PAC 530
1937L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1948L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1954L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1957L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1959L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1960L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1965L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1967L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1969L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1974L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1977L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1979L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1980L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
1990L	415097001	NI MH HT 3.6V1.2A AA PACK 5264

Fixture order code	Battery order code	Battery description
1999L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2002L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2017L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2020L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2022L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2024L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2026L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2027L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2041L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2046L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2047L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2049L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2051L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2052L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2059L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2064L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2065L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2066L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2067L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2068L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2069L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2073L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2074L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2075L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2077L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2078L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
2370L	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
2381L	415413001	NIMH HT 3.6V 1.7AH 4/5A PC5264
8096L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8098L	415097001	NI MH HT 3.6V1.2A AA PACK 5264

Fixture order code	Battery order code	Battery description
8105L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8107L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8108L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8109L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8110L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8111L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8112L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8146L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8147L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8148L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8150L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
8151L	415097001	NI MH HT 3.6V1.2A AA PACK 5264
824L	415098001	NI MH HT 3.6V 1.2A AA 5264 2
824LSA	415098001	NI MH HT 3.6V 1.2A AA 5264 2
824M	415049103	NC+CAB HT 3.6V 0.75AH AA 5264
824MSA	415049103	NC+CAB HT 3.6V 0.75AH AA 5264
824S	415049103	NC+CAB HT 3.6V 0.75AH AA 5264
IMAITM	IMAITM_1	IMDSC1
R0818	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
R0818	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R1124	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
R1124	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R1124SA	415072301	NC HT 3.6V 0.75 AA PACK 5264 2
R1124SA	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R2436	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R2436	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R2436SA	415097001	NI MH HT 3.6V1.2A AA PACK 5264
R2436SA	415097001	NI MH HT 3.6V1.2A AA PACK 5264

# 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.



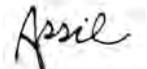
ECOLIGHT



Dealer  
iMQ brand



Associated:



Partner DIALux