

REVERSO
2017 EMERGENCY

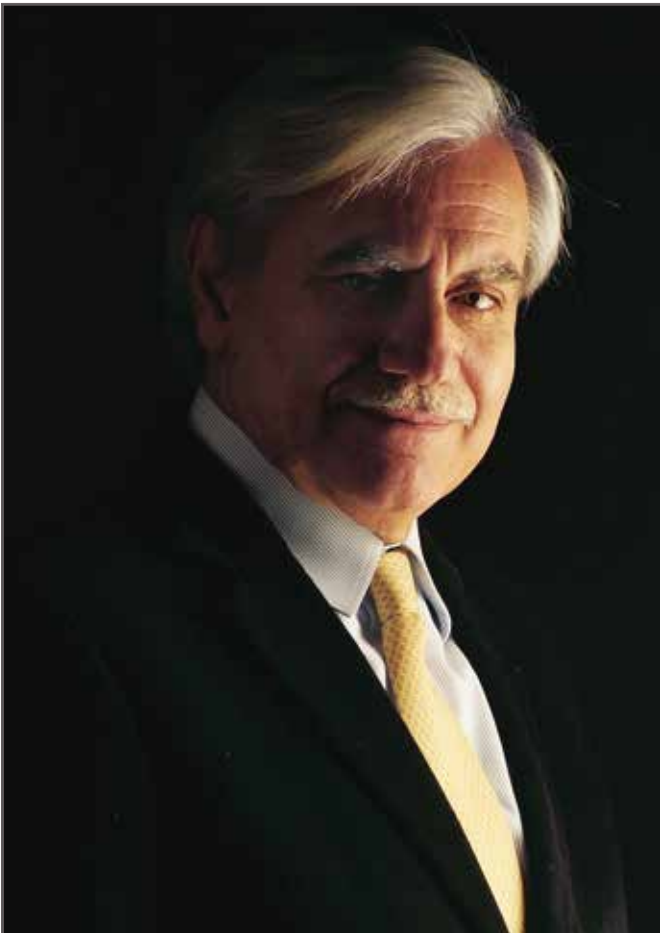
Beghelli



The Evolution of Control

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

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



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

OPTIcal **COM**munication Technology
Light that communicates with light

Gian Pietro Beghelli

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:



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

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



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



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



CIVIL

Fixtures particularly indicated for installations in homes and small commercial premises



ARCHITECTURAL

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



TERTIARY AND INDUSTRIAL

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



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

Strobe effects can only be relevant in situations where moving rotating organs are present. For more information www.beghelli.com \ accademia

Emergency Lighting

Symbols and approvals



Protection Grade against impact of the fixture complying with test methods (According to EN 50102)



Protection Grade against external factors (According to CEI EN 60598-1)



Product with very high luminous flux, with highlights of the maximum available range



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



A device for installing the Ice Pack accessory, specifically designed to keep battery temperature high in low temperature environments (up to -40 ° C)



Device fitted for cable wiring Ø 2.5 mm, smooth and corrugated pipes Ø16-20 mm



A device equipped with a reflector designed to orient, with the utmost uniformity, all light to the ground and avoid dazzling phenomena



Fixture with a photosensor allowing activation of the fixture in SA mode automatically as soon as the threshold of environment light is lowered

LG

Self-powered fixtures with diagnosis and remote control, LOGICA series

LGFM

Self-powered fixtures with diagnosis and remote control via radio, LOGICA FM series

SLG

Centralized safety system and fixtures of the SoccorLogica series.

HT

Centrally powered emergency lighting products with supply voltage SAVDC

TR

Self-powered fixtures without diagnosis

AT

Self-powered fixtures with local diagnosis, AUTOTEST series

AR

Self-powered fixtures with local diagnosis, AUTORIPARA series

SE Version

Emergency fixtures for non permanent lighting

SA Version

Emergency fixtures for permanent lighting



GSM transmission of the energy saving data to the Beghelli Services database



Built-in FH-DSSS radio transceiver operating in the band 2.400-2.863 GHz



Fixture suitable for safety signs according to UNI EN 1838. **DV** (visibility distance): see dimensions table in the TECHNICAL DATA SHEETS.



Devices complying with European Community directives



Fixtures with class II insulation level. Fixtures without this symbol are to be considered class I.



Emergency lighting fixtures that ensure 1 hour of autonomy after 12h recharging



Fixtures characterized by particular resistance to UV radiation, suitable for direct exposure to natural light



Fixtures with particular resistance to UV radiation and aggression by mineral oils



Indicates Resistance Temperature of the product to the incandescent wire test (CEI EN 60598-1)



 IP65
 LG
 HT

ACCIAIO EMERGENCY LED page 11



IP65
 LG
 HT

LOGICA LED page 17



 IP65

 TR  AT  LG
 HT

FORMULA 65 LED page 53



IP65
 LG
 HT

AESTETICA page 77

Tracking and control systems: description of Systems and fixture compatibility

TR

SELF-CONTAINED
EMERGENCY
LUMINAIRES
AND EMERGENCY
LUMINAIRES WITH
BATTERY CHECK

AT

SELF TEST
EMERGENCY
LUMINAIRES
AND AUTORIPARA
SYSTEM

AT page 181

LG /LGFM

SELF-POWERED
DEVICES AT WITH
AUTOTEST THAT CAN
BE CENTRALISED
WIRED (LG) OR RADIO
(LGFM)

LG page 185
LGFM page 195



IP65

opticom

TR AT LG

UP LED page 23



IP65

opticom

TR AT LG

UP LED LITE page 30



IP42

opticom

TR AT LG

UP LED MULTI page 35



IP40 IP65

opticom

TR AT LG

COMPLETA LED page 43



IP42

AT LG HT

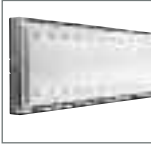
LUNGALARGALUCE LED - ceiling page 83



IP42

AT LG HT

LUNGALARGALUCE LED - recessed page 91



IP42 IP65

TR AT

TICINQUE LED page 97

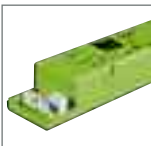


IP65

TR AT

GRANLUCE LED page 103

Emergency conversion kits



IP40 IP65

TR

INVERTER LED PLUG&LIGHT page 113



IP40 IP65

AT LG

INVERTER LED page 117



IP40

TR AT LG

ELETTRINVERTER page 121

LED Module with emergency conversion kits



IP20

AT LG HT

LED EMERGENCY MODULE page 133



IP20

TR

ECOLED INVERTER MODULE page 136

Portable Emergency



IP40

TR

SCOUT LED page 143

Exit signs



IP40

opticom

TR AT LG

UP-LED EXIT page 149



IP42

AT LG HT

INDICA LED page 157



IP40

LG HT

PLEXILITE LED page 169



IP54

LG HT

MAXIMA LED page 175

Apparecchi e dispositivi ad elevate prestazioni

opticom TECHNOLOGY

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

SYSTEM page 4



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



DEVICES EQUIPPED WITH A BATTERY MADE FROM TITANIUM NANO-STRUCTURES

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

TITANIUM BATTERY page 8



Type of system chosen: Emergency or illumination.



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

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

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

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

This two-way optical communication techno-

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

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

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



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



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



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

Lamp parameters can be adjusted via the Opticom Technology app

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

opticom.beghelli.it

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

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



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

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

The Opticom system offers enormous versatility, courtesy of its ability to integrate several additional modules into the basic electrical circuit, enhancing the performance of the device.

Where the conditions of use require a centralised control system or DALI proto-

col, the device electronics feature a connector to connect the most suitable additional module:

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

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

- The **DALI module** is used to control the system via a DALI protocol

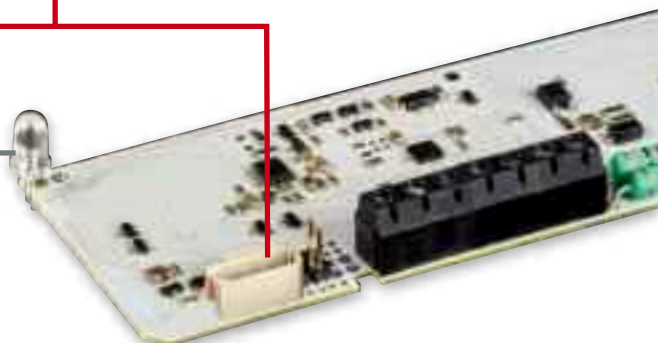


SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTODSENSOR SUPPLIED

opticom[®] Smartphone interface
TECHNOLOGY Programming, interrogation and control system



System Modules

to be ordered separately

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



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

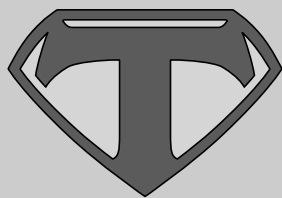
REGISTRO VERIFICHE PERIODICHE									
Normative CEI EN 50172 e UNI 11222									
Tipo di Test: Verifica di funzionamento apparecchi				Nome azienda: Rossi					
Data inizio: 01/12/2016				Esigete: BO					
				Partita IVA: 12345678901					
Data fine Test	Zona	Identificativo	Apparecchio	Descrizione	Anomalie riscontrate	Provvedimenti	Data prossima verifica	Intervento effettuato da (nome, cognome, Società)	Firma responsabile verifica
12/12/2016	UFF tecnico elettronico	1	Completo Led 24W AT OPTICOM SA	Parete sopraporta					
12/12/2016	Posto vendita	5	Completo Led 24W AT OPTICOM SA	Soffitto					
12/12/2016	Mensa	12	F65 Led 24W AT OPTICOM SA	Zona cucine					
12/12/2016	UFF Direzione Generale	13	F65 Led 24W AT OPTICOM SA	Parete laterale					

360° lamp information management

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

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





Super Battery: Opticom devices with 10 years warranty

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

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

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

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

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

THE POSITIVES

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



Titanium battery provided as standard on all Opticom emergency devices:



Up•LED,
Up•LED Multi,
Up•LED Exit



Completa LED



Formula 65





Acciaio Emergency LED

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

ACCIAIO
LED



Incredible performance for LED emergency lighting in service and industrial applications. With a luminous flux of 1600lm, controlled by a 4-cell anti-glare aluminum reflector, Acciaio Emergency LED has no comparison.

The strong structure comes from the combination of technological materials such as Steel, Technopolymer and Micro-prismatic tempered glass that create a device suitable for installation in demanding contexts as reflected in the ATEX certification and the IK09 and IP65 protection degrees.

In addition, the Ice Pack system is easily integrated in the device for installation in extreme conditions, assuring correct functioning over time at temperatures of even -40°.



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

Acciaio Emergency LED

Emergency ceiling light

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

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

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

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



GENERAL CHARACTERISTICS

Equivalent power* 24

Autonomy 1h, 2h, 3h

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

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

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

Protection level IP66

Protection from knocks IK09

Environmental temp. SE 0 ÷ +50 °C

Environmental temp. SA 0 ÷ +40 °C

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

Installations wall, ceiling, suspension, electric rail

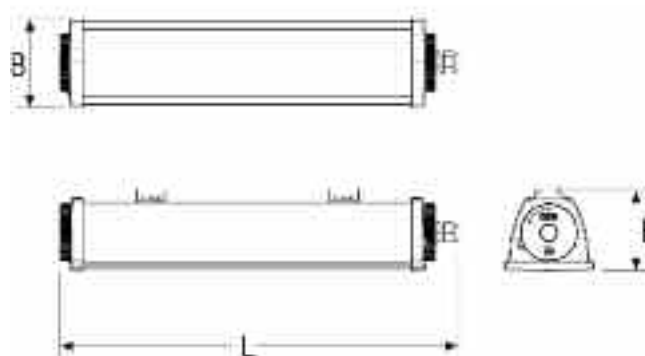
Body RAL 7035 polyester powder coated steel sheet

Heads Tecnopolymer PC+PBT

Optic Anti-glare aluminum diffusing

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

Light source LED



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

* Equivalent power for comparison with florescent tube devices

* Equivalent power for comparison with florescent tube devices

Polar Diagram



Standard optic

WALL INSTALLATION



ADJUSTABLE BRACKET

Autoripara Battery



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

Accessories

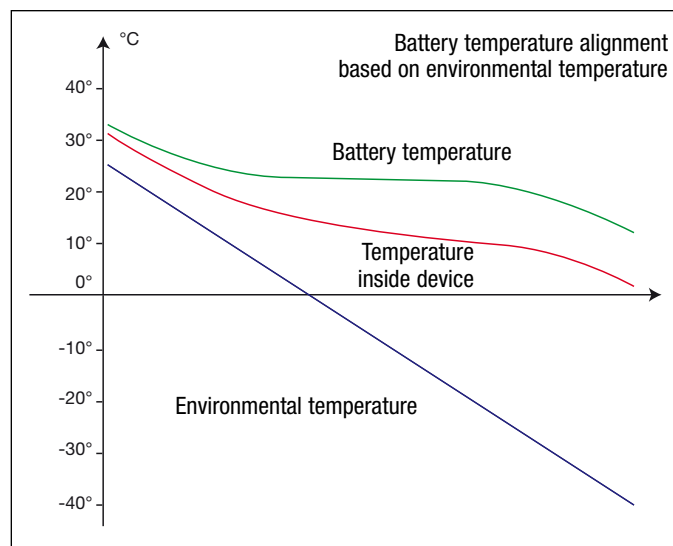
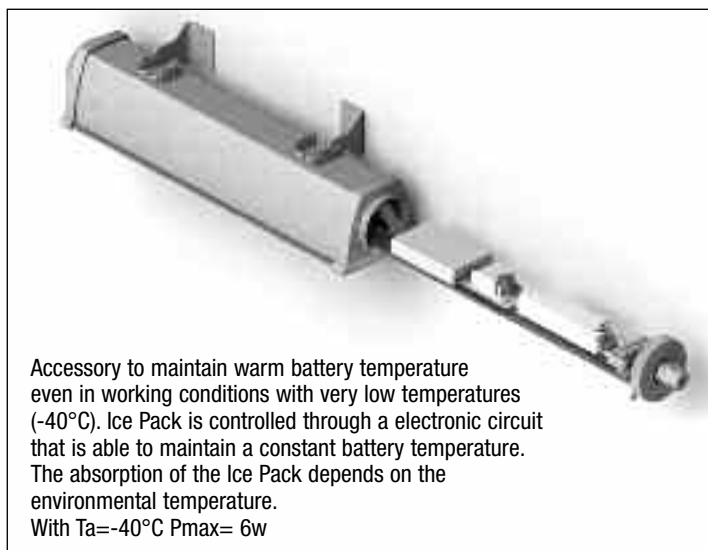
to be ordered separately

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

Accessories

in dotazione

Cod. ord.	Descrizione
-	POSITIONABLE BRACKETS FOR WALL INSTALLATION



19046 ICE PACK

to be ordered separately

LG Logica

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

LGFM Logica FM

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

LG-AR Granluce Logica Ripara

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

LGFM-AR Granluce Logica FM Ripara

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

SLG

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

SICURO 24V

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

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

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

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



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

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



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

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



**1500
lumen**

GENERAL CHARACTERISTICS

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

** Indicative power for comparison with fluorescent tube fixtures

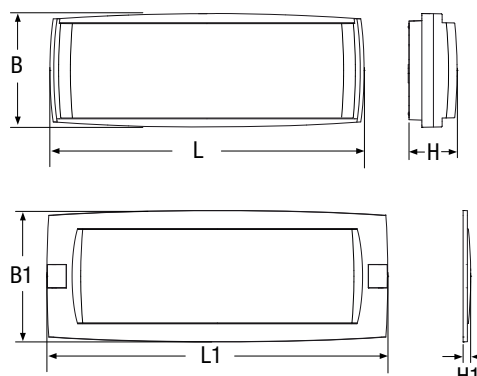
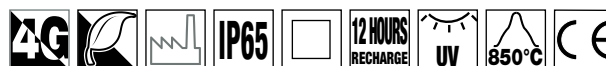
Logica LED

LED Emergency

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

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

Thanks to the symmetry and extreme uniformity of lighting that characterise the Logica LED, it can be installed, without a predefined orientation, on the wall, on the ceiling and recessed using the kit provided, complete with box and a frame that covers the wires. Inside the housing is a louvre with dual reflection, which in turn contains two series of highly efficient LEDs that ensure unprecedented technical lighting output (up to 1500lm). The highly transparent Polycarbonate diffuser has been designed to seal the optics and obtain Protection degree IP65.



Power** 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

Accessories

supplied

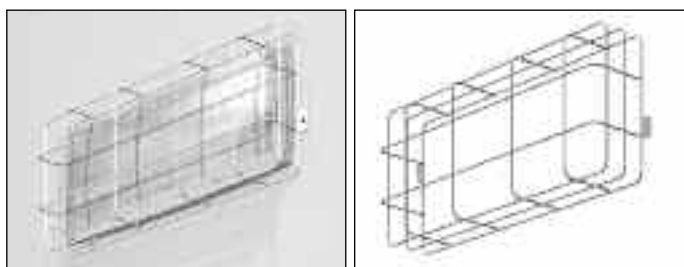
Order code	Description
-	LOGICA CABLE GLAND
12198	RECESSED BOX LOGICA IP65
12199	RAPID WALL FIXING BRACKET
4072	ADES. LEFT, RIGHT, DOWN LOGICA (SA/PS MODELS ONLY)

Accessories

to be ordered separately

Order code	Description
12190	LOGICA PS RIGHT DIFFUSER
12191	LOGICA PS LEFT DIFFUSER
12192	LOGICA PS DOWN DIFFUSER
4072	ADES. LEFT, RIGHT, DOWN LOGICA
12194	LOGICA LAMP LOUVRE
12193	LOGICA SUSPENDED CEILING BRACKET

LOGICA METAL GRID



12194 LOGICA METAL GRID

to be ordered separately

WALL MOUNTING WITH RAPID BRACKET AND SPIRIT LEVEL

**12199** RAPID WALL FIXING BRACKET

supplied

MOUNTING ON A PLASTERBOARD SUSPENDED CEILING

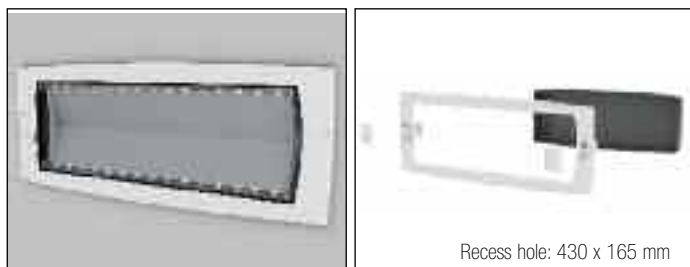


Drilling jig supplied: 414x150 mm

12193 LOGICA SUSPENDED CEILING BRACKET

to be ordered separately

RECESSED MOUNTING



Recess hole: 430 x 165 mm

12198 LOGICA IP65 RECESSED BOX

supplied

LOGICA DIFFUSERS

**12175** LOGICA PS RIGHT DIFFUSER

to be ordered separately

12176 LOGICA PS LEFT DIFFUSER

to be ordered separately

12177 LOGICA PS DOWN DIFFUSER

to be ordered separately

LG

Logica

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

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

LGFM

Logica FM

W**	Order code	Description	Model	Autonomy	Battery	N° LED	Flux* SE lm	Flux SA lm	Absorption W	Weight kg	Pack
8	12182FM	LOG LED LGFM 8W SE 2/4/6H	SE	2/4/6h	Pb 6V 4Ah	30	750/450/350	-	5	2.2	6
8	12185FM	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	12183FM	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	12186FM	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	12184FM	LOG LED LGFM 24W SE 1/2/3H	SE	1/2/3h	Pb 6V 4Ah	30	1100/750/550	-	7	2.2	6
24	12187FM	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	12184FMS	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	12187FMS	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	17303	LOGICALED SLG 8W	-	-	-	30	-	400	4	1.8	6
24	17305	LOGICALED SLG 24W	-	-	-	30	-	600	6,5	1.8	6

HT

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

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

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



Architectural installations require the outmost performance in design and safety.









UP•LED

High strength LED
Superior performance,
technology
compact size, more features

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



GENERAL CHARACTERISTICS

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

* Indicative power for comparison with fluorescent tube fixtures

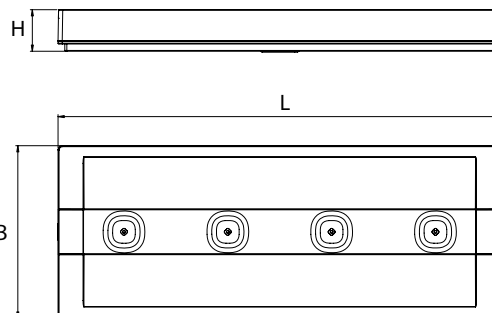
UP•LED AT Opticom

LED Emergency

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:** -30°C ÷ +75°C
- 3 LONG LIFE** with at least 7,000 charge cycles guaranteed, devices can boast 10 years of useful life
- 4 MAXIMUM SAFETY:** unlike normal Lithium batteries, the material used on these accumulators renders them particularly safe, even when a short circuit or perforation occurs

Titanium recharge Time (max)

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

Accessories

to be ordered separately

Order code	Description
4310	SCREEN RIGHT-LEFT-DOWN UPLED 20M
4311	SCREEN RIGHT-LEFT-DOWN UPLED 30M
4319	THREE-PHASE BINARY KIT

System Modules

to be ordered separately

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

Accessories

supplied

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

MODULO
DALI

MODULO
LG

MODULO
LGFM

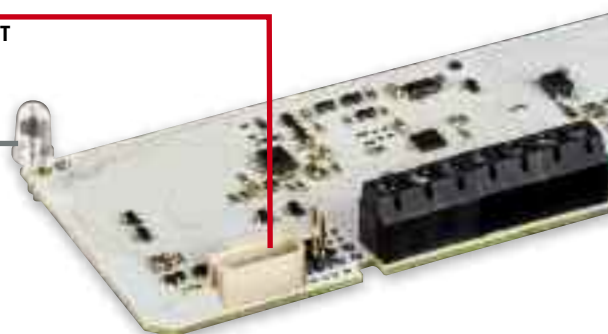
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTOSENSOR SUPPLIED

opticom
TECHNOLOGY

Smartphone interface
Programming, interrogation and control system



UP LED

WALL MOUNTING



SPIRIT LEVEL



MOUNTING IP65 WITH CONNECTION COUPLING



4318 IP65 UP LED 824 ACCESSORY

to be ordered separately

DIFFUSER 20-30M VISIBILITY DISTANCE



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

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

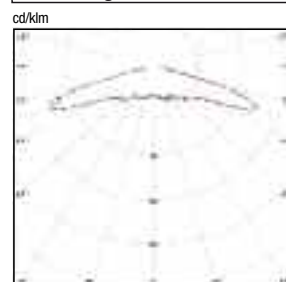
THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately

UP-LED
Diagramma Polare



— C0-C180 — C90-C270

AT



opticom
TECHNOLOGY

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

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038



GENERAL CHARACTERISTICS

Power* 6-8, 11-24, 24-36w

Power supply 230Vac +/- 10% 50Hz

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

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

Protection grade IP65 - IK07

Autonomy 1h, 3h

Working temp. 0°C ÷ +40°C

Mounting wall, ceiling, three-phase binary

Alimentatore Electronic control gear with constant
current

Housing White Polycarbonate, RAL 9003

Optics Transparent Polycarbonate lenses

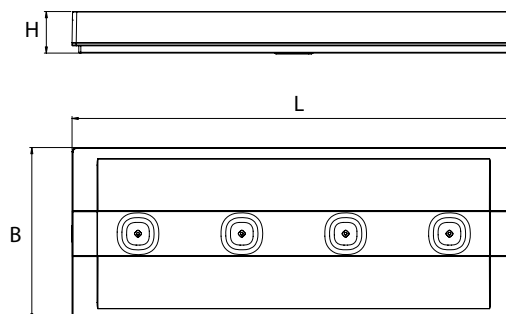
Light source LED

* Indicative power for comparison with fluorescent tube fixtures

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.



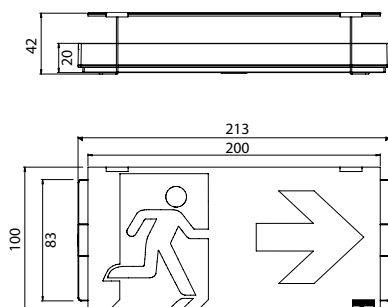
Power* W	• Dimensions (mm) •			DV
L	B	H		
6-8	213	83	20	20/30
11-24	213	83	20	20/30
24-36	213	83	20	20/30

* 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

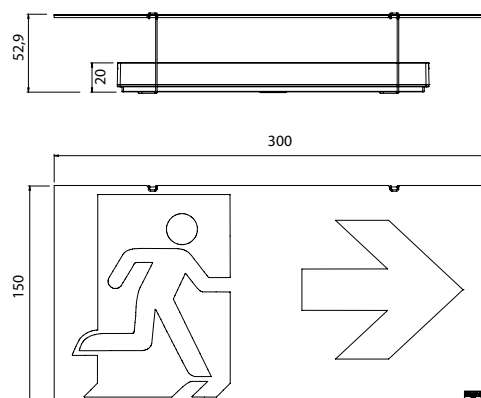


DIFFUSER - visibility distance 20 m

Accessories

to be ordered separately

Order code	Description
4310	SCREEN R-L-DOWN UPLED 20M
4311	SCREEN R-L-DOWN UPLED 30M
4319	THREE-PHASE BINARY KIT



DIFFUSER - visibility distance 30 m

WALL MOUNTING



SPIRIT LEVEL



MOUNTING IP65 WITH CONNECTION COUPLING



4318 IP65 UP LED 824 ACCESSORY

to be ordered separately

DIFFUSER 20-30M VISIBILITY DISTANCE



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

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

THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately

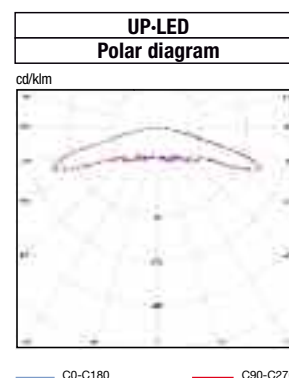


Red warning LED:
BATTERY
MALFUNCTION

Green warning LED:
FIXTURE
FULLY EFFICIENT

BATTERY CONTROL SYSTEM

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



TR

BCS - Battery Control System

W*	Order code	Description	Model	Autonomy	Battery	N° LED	Flux* SE lm			Flux SA lm	Absorption max W	Weight kg	Pack single
							1h	2h	3h				
6-8	4300	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	4301	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	4302	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	4303	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	4304	UP LED 24-36W SARM 1/2/3H IP65	SA/SE	1/2/3h	NiMh 3,6V 1,5 Ah	4	450	240	170	240	3,5	0,27	12

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



GENERAL CHARACTERISTICS

Power* 24W (S-M-L)

Power supply 120Vac +/- 10% 60Hz
230Vac +/- 10% 50Hz

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

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

Gradi di protezione IP42, IK07 - IP65 optional

Autonomy 1,5-2h

Working temp. 0°C ÷ +40°C

Mounting wall, ceiling, three-phase binary

Housing White Polycarbonate, RAL 9003

Optics Opaline Polycarbonate lenses

Light source LED

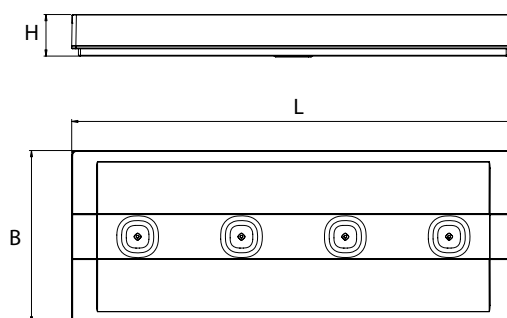
* Indicative power for comparison with fluorescent tube fixtures

UP•LED 824

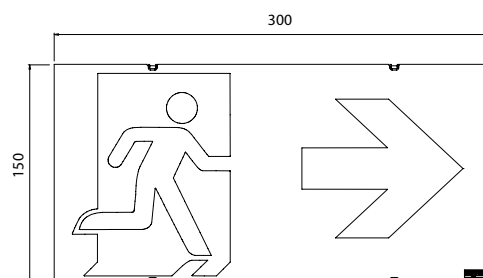
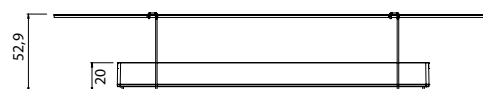
LED Emergency

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.



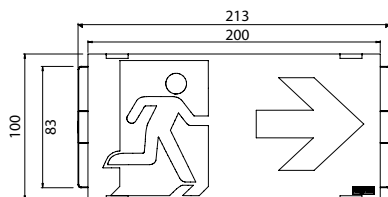
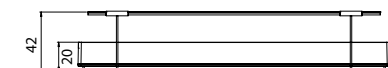
Size	• Dimensions (mm) •			
	L	B	H	DV
S	213	83	20	20/30
M	213	83	20	20/30
L	213	83	20	20/30



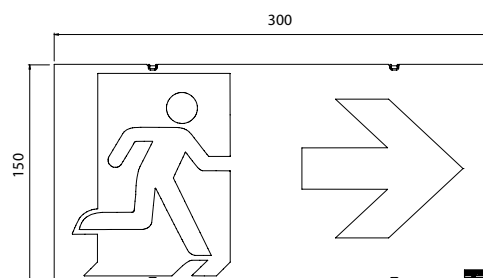
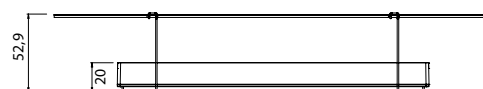
Accessories

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



DIFFUSER - visibility distance 20 m



DIFFUSER - visibility distance 30 m

WALL MOUNTING



SPIRIT LEVEL



MOUNTING IP65 WITH CONNECTION COUPLING



4318 IP65 UP LED 824 ACCESSORY

to be ordered separately

DIFFUSER 20-30M VISIBILITY DISTANCE



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

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

THREE-PHASE BINARY MOUNTING



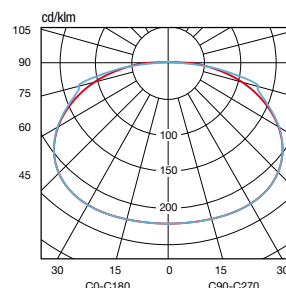
4319 THREE-PHASE BINARY KIT

to be ordered separately

Red warning LED:
**BATTERY
MALFUNCTION**Green warning LED:
**FIXTURE
FULLY EFFICIENT**

BATTERY CONTROL SYSTEM

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

UP-LED 824
Polar diagram

TR

Traditional

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



GENERAL CHARACTERISTICS

Output 100lm, 200lm

Power supply 120Vac +/- 10% 60Hz
multy voltage 230Vac +/- 10% 50Hz

Operation Maintained (SA with Rest Mode)
 Non maintained (SE with Rest Mode)

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

Protection degree IP65 - IP42

Protection IK07
mechanical impacts

Autonomy 1h

Working temperature 0°C ÷ +40°C

Mounting wall, ceiling

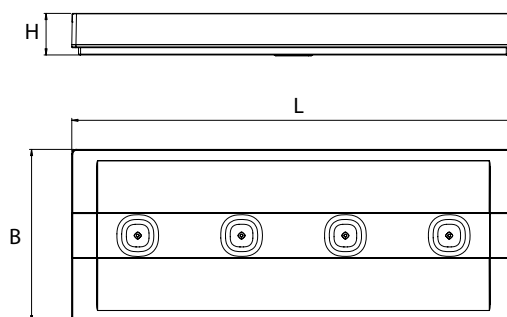
Housing Polycarbonate, white RAL 9003

Lens transparent Polycarbonate

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 multy voltage power supply: 120Vac and 230Vac.

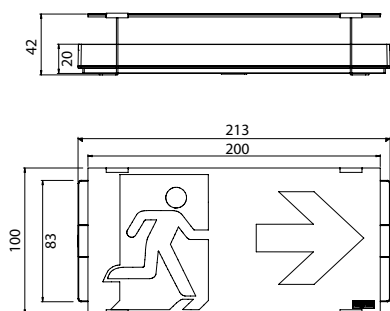


• Dimensions (mm) •				
L	B	H	DV	
213	83	20	20/30	

Accessories

to be ordered separately

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

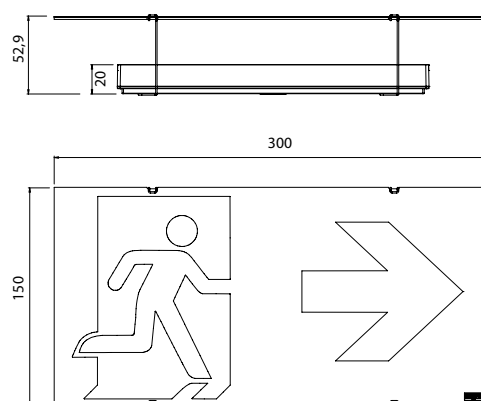


sign diffuser - visibility distance 20 m

Accessories

supplied

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



sign diffuser - visibility distance 30 m

WALL MOUNTING



SPIRIT LEVEL



MOUNTING IP65 WITH CONNECTION COUPLING



4318 IP65 UP LED 824 ACCESSORY

to be ordered separately

SIGN DIFFUSER VISIBILITY 20M



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

SIGN DIFFUSER VISIBILITY 30M



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



Red warning LED:
BATTERY
MALFUNCTION

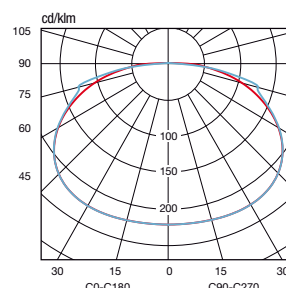


Green warning LED:
FIXTURE
FULLY EFFICIENT

BATTERY CONTROL SYSTEM

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

UP-LED LITE
Polar Diagram



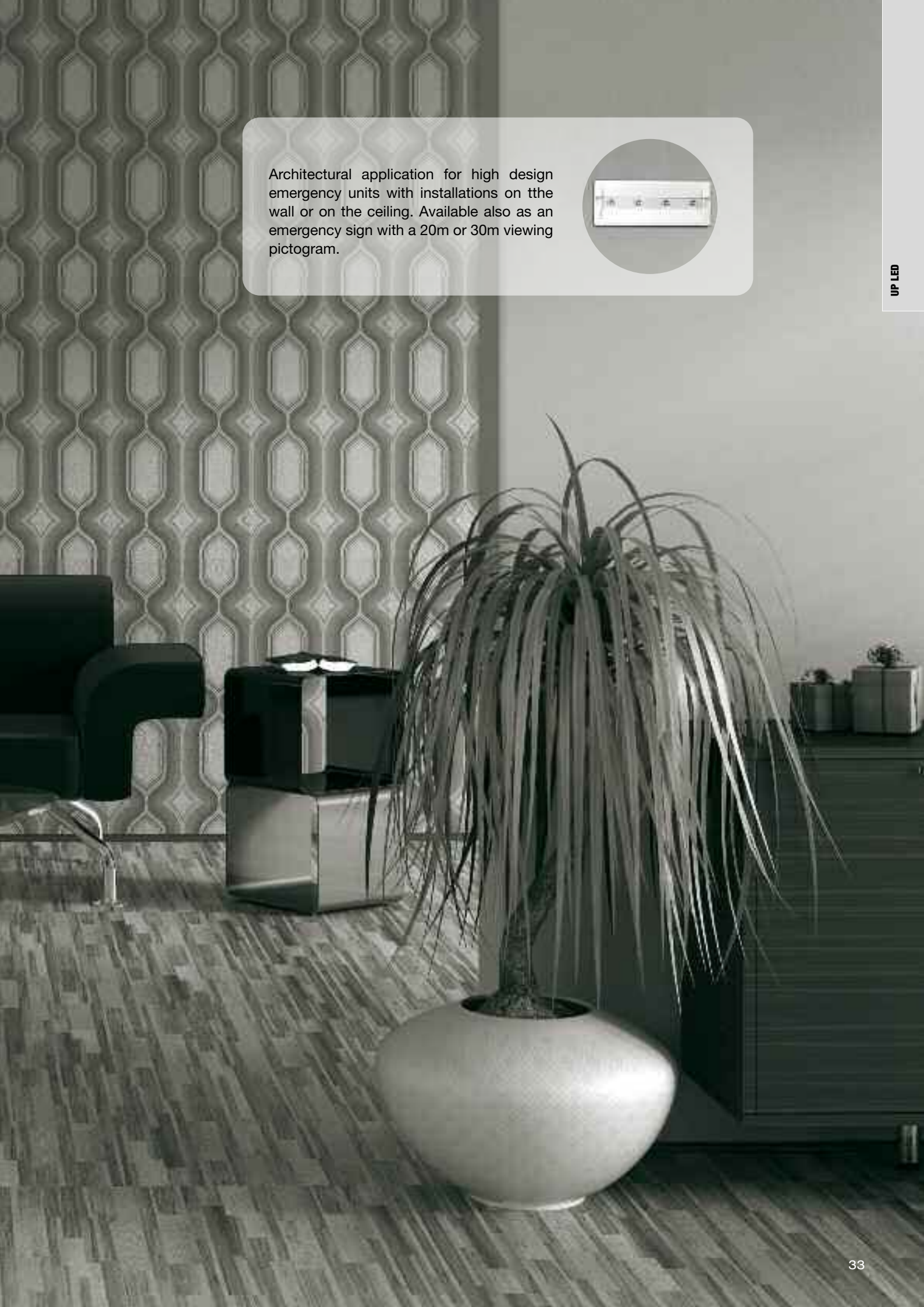
BCS

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



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



GENERAL CHARACTERISTICS

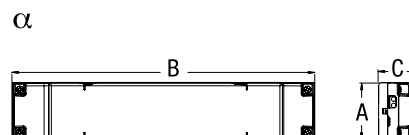
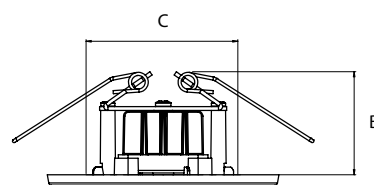
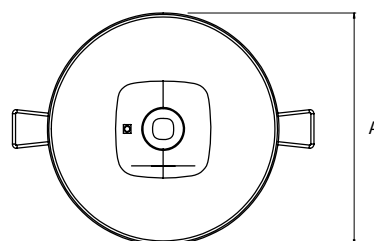
Power*	24 W
Power supply	230Vac ± 10% 50Hz
Operation	Permanent (SA), Non Permanent (SE)
Standard	EN 60598-1, EN 61347-2-7, EN60598-2-22, EN 61347-2-13, UNI 11222, EN 1838, EN 60598-2-2
Protection grade	IP42
Autonomy	1h, 1.5h, 2h, 3h, 8h
Working temp.	-20°C ÷ +50°C (Titanium Battery)
Mounting	recessed
Alimentatore	Electronic control gear with constant current
Housing	Polycarbonate
Optics	lenses in highly transparent PMMA
Heat sink	Graphite-charged polyamide
Springs	C72 Stainless steel
Light source	LED

* Indicative power for comparison with fluorescent tube fixtures

UP•LED AT Multi Opticom

LED Emergency

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



INVERTER AND BATTERIES

Accessories

supplied

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

System Modules

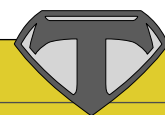
to be ordered separately

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

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

* Equivalent power for comparison with fluorescent tube devices

Titanium Battery



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

Recharging time Titanium (max)

24 W	45 min
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MODULO
DALI

MODULO
LG

MODULO
LGFM

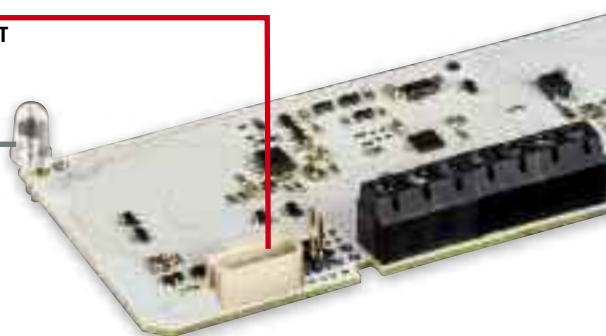
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTOSENSOR SUPPLIED

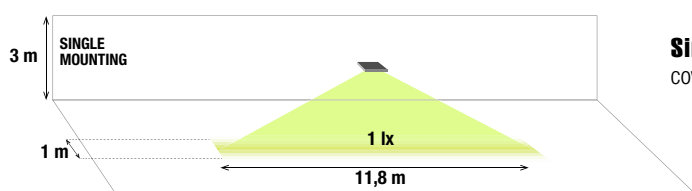
opticom
TECHNOLOGY

Smartphone interface
Programming, interrogation and control system



UP LED

Lungaluce - long lens - mounting 3 m above the ground



Single mounting

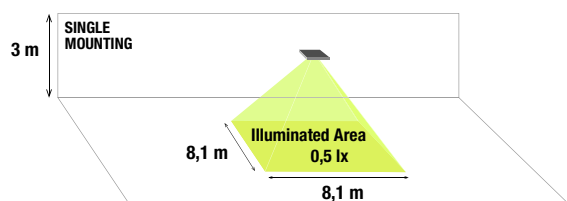
covering an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1m

Multiple mounting, fixture centre distance 13 m

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



Largaluce - wide lens - mounting 3 m above the ground



Single mounting

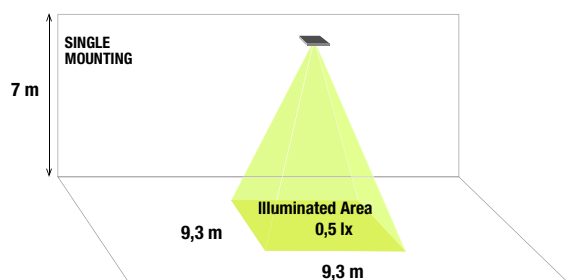
illuminates a surface of 8.1x8.1 m at 0.5 lux

Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



Altaluce - high lens - mounting 7 m above the ground



Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

Multiple mounting, fixture centre distance 11 m

illuminates a surface of 20.5 x 20.5 m at 0.5 lux



AT



opticom
TECHNOLOGY

W*	Order code	Description	Model	Autonomy	Battery	N° LED	1h	1.5h	2h	3h	8h	Flux LED SE lm	Flux LED SA lm	Absorption maxW	Weight kg	Pack single
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	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



GENERAL CHARACTERISTICS

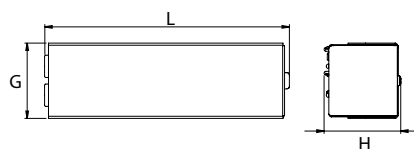
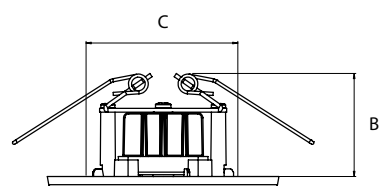
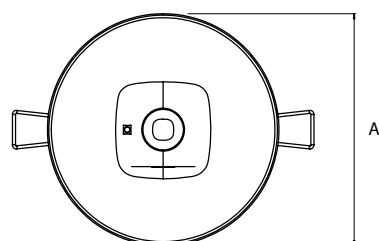
Power equivalente*	24 W
Power supply	230Vac $\pm$ 10% 50Hz
Operation	Non Permanent (SE), Rest Mode: with optional control device (cod. 2730)
Standard	EN 60598-1, EN 61347-2-7, EN60598- 2-22, EN 61347-2-13, UNI 11222, EN 1838, EN 60598-2-2
Protection grade	IP42
Autonomy	1h, 3h
Working temp.	0°C $\div$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

* Indicative power for comparison with fluorescent tube fixtures

UP•LED Multi

LED Emergency

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



INVERTER AND BATTERIES

Accessories

supplied

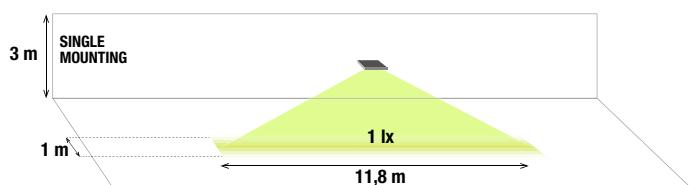
Order code	Description
-	LONG LENS WITH COVER
-	WIDE LENS WITH COVER
-	HIGH LENS WITH COVER

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

* Equivalent power for comparison with florescent tube devices

Technical demonstration of light output on the ground

Lungaluce - long lens - mounting 3 m above the ground

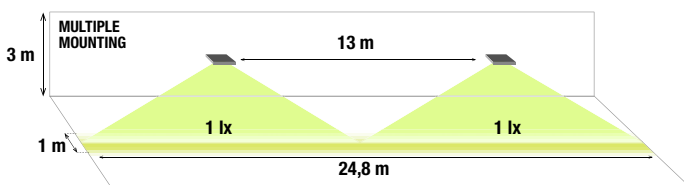


Single mounting

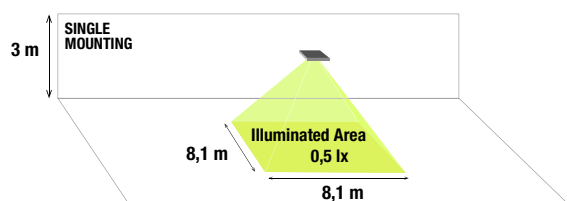
covering an escape route of 11.8 m with 1 lux in the middle and > 0.5 within 1 m

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 1 m



Largaluce - wide lens - mounting 3 m above the ground

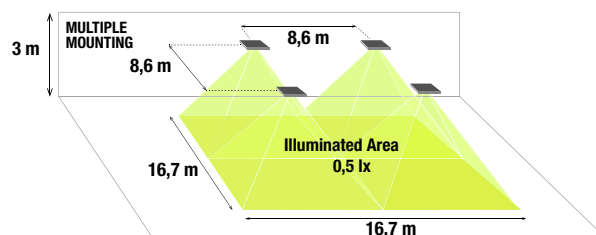


Single mounting

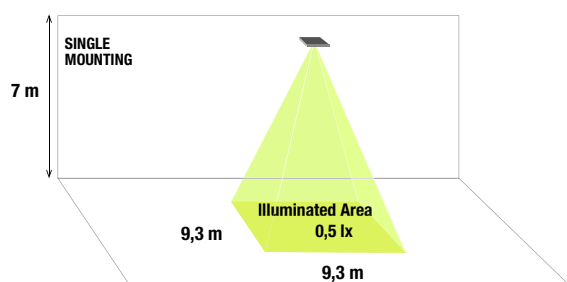
illuminates a surface of 8.1x8.1 m at 0.5 lux

Multiple mounting, fixture centre distance 8.6 m

illuminates a surface of 16.7 x 16.7 m at 0.5 lux



Altaluce - high lens - mounting 7 m above the ground

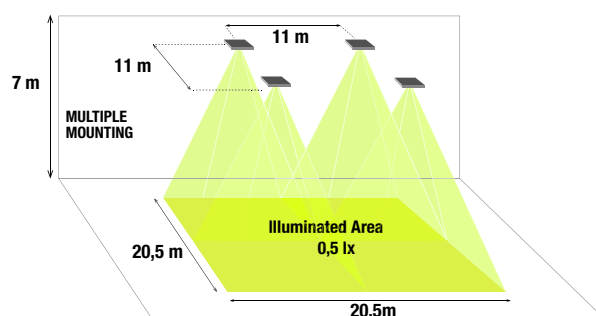


Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

Multiple mounting, fixture centre distance 11 m

illuminates a surface of 20.5 x 20.5 m at 0.5 lux



TR

Traditional

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



UP•LED MULTI

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



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.



GENERAL CHARACTERISTICS

Power* 8, 11, 24, 36 W

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

Operation Permanent (SA), Non Permanent (SE)

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

Protection grade IP40, IP66 (with casing)

Autonomy 1h, 1,5h, 2h, 3h, 8h

Working temp. -20°C ÷ +50°C (Titanium Battery)

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

Housing White Polycarbonate RAL 9003

Optics Symmetrical, white

Louvre Transparent Polycarbonate

Light source LED

* Indicative power for comparison with fluorescent tube fixtures

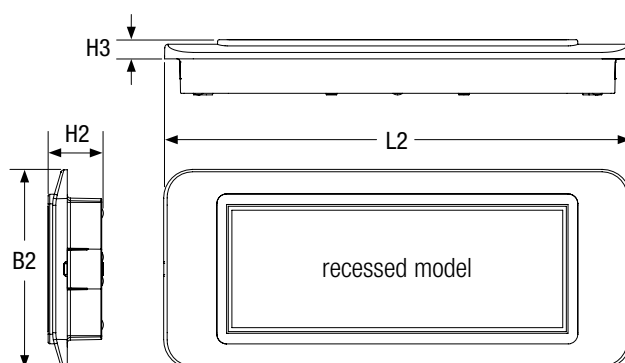
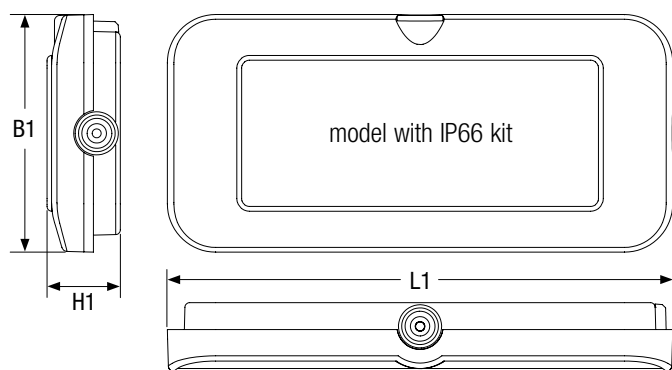
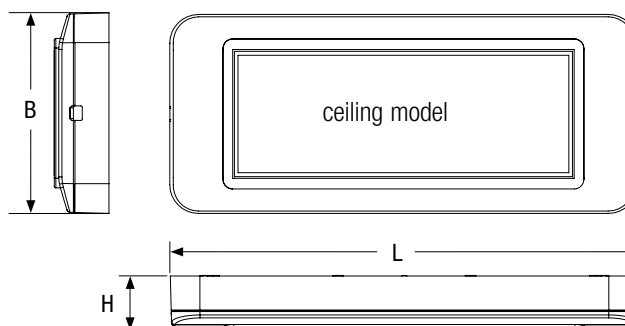
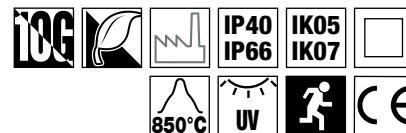
Completa Led AT Opticom

LED Emergency

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

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

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



Power * W	L	B	H	L1	B1	• Dimensions (mm) •					DV Diffuser	DV Suspended
						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



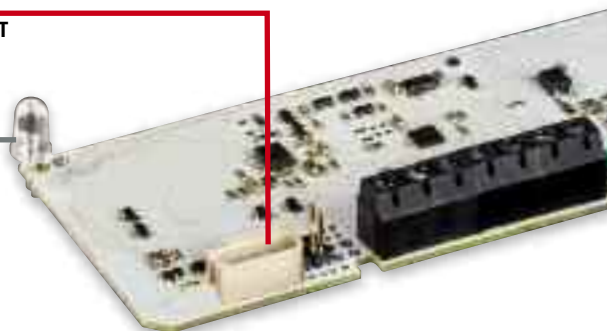
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTOSENSOR SUPPLIED



Smartphone interface
Programming, interrogation and control system



COMPLETA

Accessories

supplied

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

System Modules

to be ordered separately

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

Titanium Battery



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

Recharging time Titanium (max)

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

Accessories

to be ordered separately

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

AT



opticom
TECHNOLOGY

W*	Order code	Description	Model	Autonomy	Battery	N° LED	1h	Average flux SE lm	Average flux SA lm	Power consump. max W	Weight kg	Pack single
8-11	4200	CPLD 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	CPLD 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	CPLD 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	CPLD 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	CPLD 2436W IP40 AT OPT SA 8LT	SE/SA	1-1,5-2-3-8h	2xLTO 4.8V 0.5Ah	12	450	305 230 156 65	200	7,5	0,5	1/6

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038

WALL MOUNTING



- NO ACCESSORY NEEDED

CEILING MOUNTING



- NO ACCESSORY NEEDED

RECESSED MOUNTING



3733 RECESSED BOX supplied

RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



recess hole: 279x94 mm

4266 SUSPENDED CEILING BRACKET to be ordered separately

KIT IP66

4112 KIT IP66 COMPLETA LED to be ordered separately

WALL SAFETY SIGN

4278 ADES 3 LEFT RIGHT DOWN supplied

4269 DIFFUSERS RIGHT/LEFT DOWN to be ordered separately

WALL MOUNTING

4265 WALL SUSPENDED BRACKET to be ordered separately

4267 DIFFUSER RIGHT/LEFT to be ordered separately

4268 DIFFUSER DOWN to be ordered separately

RECESSED MOUNTING

4266 SUSPENDED CEILING BRACKET to be ordered separately

4267 DIFFUSER RIGHT/LEFT to be ordered separately

4268 DIFFUSER DOWN to be ordered separately



Completa Led

LED Emergency

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

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

GENERAL CHARACTERISTICS

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

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

Operation Permanent (SA), Non Permanent (SE)

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

Protection grade IP40, IP66 (with Kit)

Autonomy 1h, 3h

Working temp. 0°C ÷ +40°C

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

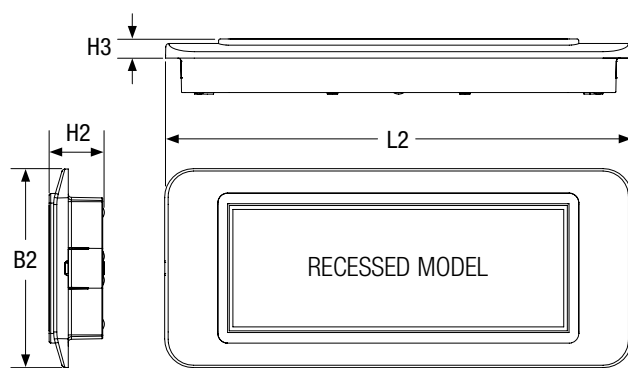
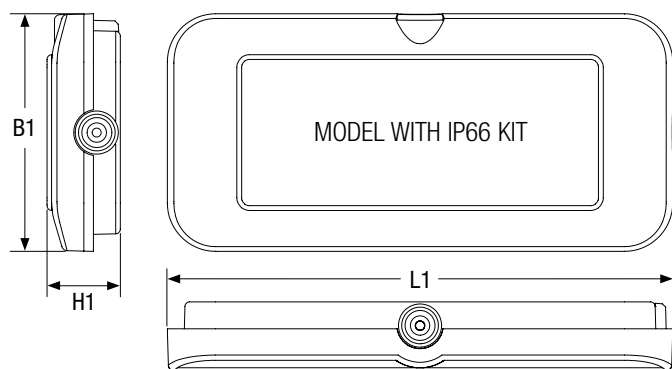
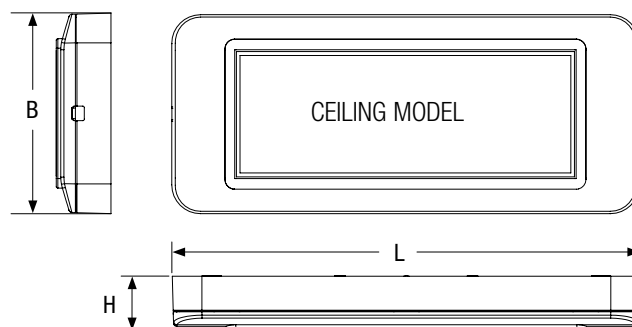
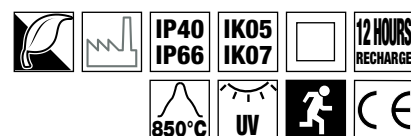
Housing White Polycarbonate RAL 9003

Optics Symmetrical, white

Louvre Transparent Polycarbonate

Light source LED

* Indicative power for comparison with fluorescent tube fixtures



Power * 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

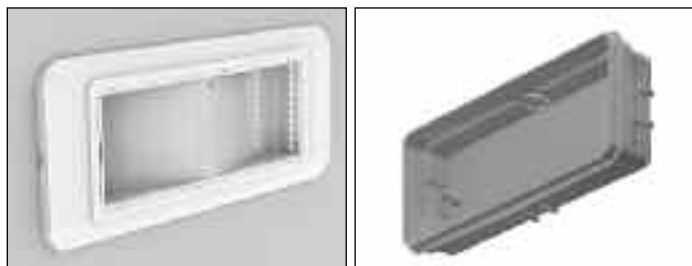
*Indicative power for comparison with fluorescent tube fixtures

Accessories

supplied

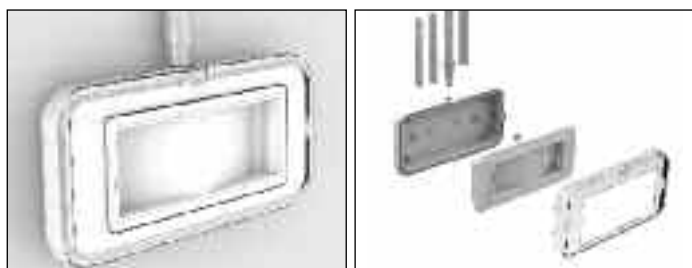
Order code	Description
4278	ADES 3 LEFT RIGHT DOWN DESIGN LED TEK
3733	RECESSED BOX

RECESSED MOUNTING



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

KIT IP66



4112 KIT IP66 COMPLETA LED to be ordered separately

WALL MOUNTING



4265 WALL SUSPENDED BRACKET to be ordered separately

4267 DIFFUSER RIGHT/LEFT to be ordered separately

4268 DIFFUSER DOWN to be ordered separately

Accessories

to be ordered separately

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

RECESSED MOUNTING ON SUSPENDED CEILING OR PLASTERBOARD



4266 SUSPENDED CEILING BRACKET to be ordered separately

WALL MOUNTING



4278 ADES 3 LEFT RIGHT DOWN supplied

4269 DIFFUSERS RIGHT/LEFT DOWN to be ordered separately

RECESSED MOUNTING



4266 SUSPENDED CEILING BRACKET to be ordered separately

4267 DIFFUSER RIGHT/LEFT to be ordered separately

4268 DIFFUSER DOWN to be ordered separately

TR

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





Wall mounting in a large
business office



Formula 65 LED

Design and versatility for
Recessed, wall
numerous applications



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



GENERAL CHARACTERISTICS

Power*	8, 11, 24 W
Power supply	230Vac $\pm$ 10% 50Hz
Operation	Permanent (SA), Non Permanent (SE)
Standard	EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
Protection grade	IP65
Protezione dagli urti	IK07
Autonomy Opticom	1h, 1.5h, 2h, 3h, 8h
Working temp.	-20°C ÷ +50°C (Titanium Battery)
Mounting	recessed, wall, ceiling, suspended ceiling, suspended wall
Housing	White Polycarbonate RAL 9003
Optics	Symmetrical, white
Louvre	Transparent Polycarbonate
Light source	LED

* Indicative power for comparison with fluorescent tube fixtures

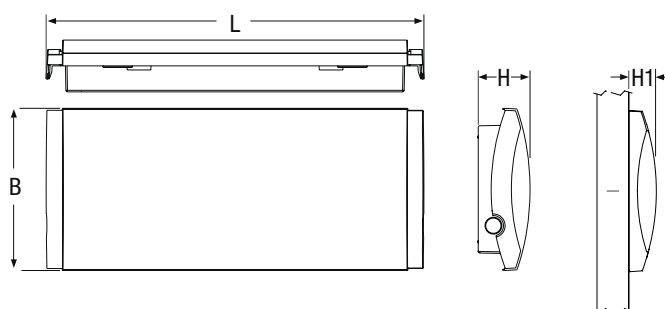
Formula 65 LED AT Opticom

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 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 shield was designed to seal in the optic group so that the device offers a IP65 protection level. The external shell features a number of pre-scored access points for direct fitting on all the most common junction or flush-mounted boxes.

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



Accessories

supplied

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

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

* Equivalent power for comparison with fluorescent tube devices

System Modules

to be ordered separately

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

Accessories

to be ordered separately

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

MODULO
DALI

MODULO
LG

MODULO
LGFM

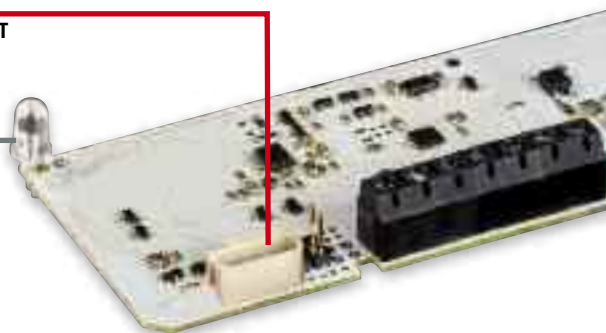
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTSENSOR SUPPLIED

opticom
TECHNOLOGY

Smartphone interface
Programming, interrogation and control system



FORMULA
65

Titanium Battery



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

Titanium Recharging time (max)

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

AT



opticom
TECHNOLOGY

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

Accessories

WALL INSTALLATION WITH SPIRIT LEVEL



CABLE GLAND Formula 65

CEILING MOUNTING



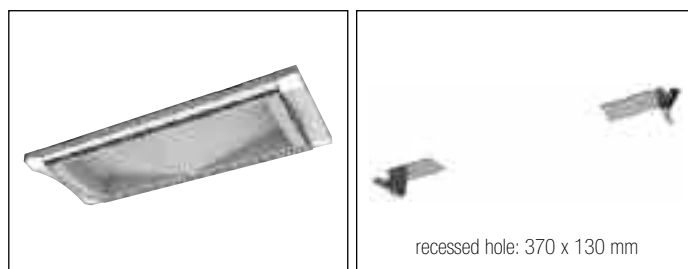
RECESSED MOUNTING



19040 FLUSH-MOUNTED BOX + FRAMES F65

to be ordered separately

RECESSED MOUNTING ON SUSPENDED CEILING



recessed hole: 370 x 130 mm

19041 CEILING BRACKET F65

to be ordered separately

CABLE GLAND



CABLE GLAND PG16/PG20

supplied

CABLE GROMMETS



- 3 IP CABLE GROMMETS

supplied

RECESSED INTO SUSPENDED CEILING



19041 CEILING BRACKET F65 *to be ordered separately*

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

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

WALL MOUNTING



19045 WALL BRACKET *to be ordered separately*

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

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

SAFETY SIGNALING (Visibility Distance VD in table)



19044 ADES RIGHT, LEFT, DOWN

supplied



GENERAL CHARACTERISTICS

Power*	8, 11, 24W
Power supply	230Vac $\pm$ 10% 50Hz
Operation	Permanent (SA), Non Permanent (SE)
Standard	EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
Protection grade	IP65
Protezione dagli urti	IK07
Autonomy	1h, 1.5h, 2h, 3h, 8h
Working temp. SE	0 $\div$ +50 °C
Working temp. SA	0 $\div$ +40 °C
Working temp. con ICE PACK	-40 $\div$ +50 °C (+40°C Model SA)
Mounting	recessed, wall, ceiling, suspended wall, suspended ceiling
Housing	White Polycarbonate RAL 9003
Optics	Symmetrical, white
Louvre	Transparent Polycarbonate
Light source	LED

* Indicative power for comparison with fluorescent tube fixtures

Formula 65 Deep Opticom

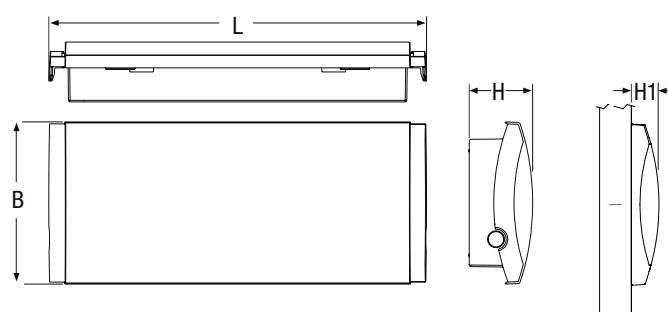
LED Emergency

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

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

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

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



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

* Equivalent power for comparison with fluorescent tube devices

Accessories

THROUGH-WIRING CABLE



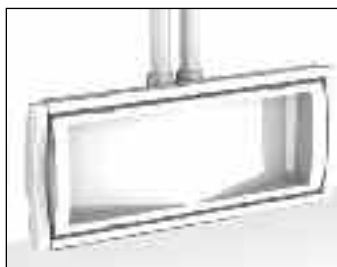
- THROUGH-WIRING CABLE supplied

CABLE GLAND M20



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

HOUSING FOR M20 CABLE GLAND



AT



opticom
TECHNOLOGY

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

Installation accessories

WALL MOUNTING WITH SPIRIT LEVEL



CEILING MOUNTING



RECESSED MOUNTING



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

RECESSED INSTALLATION ON SUSPENDED CEILING



19049 CEILING BRACKET F65 EXTREME *to be ordered separately*

RECESSED INTO SUSPENDED CEILING



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

WALL MOUNTING



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

SAFETY SIGNALING (Visibility distance VD in table)



19044	ADES RIGHT, LEFT, DOWN	supplied
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GENERAL CHARACTERISTICS

Power** 6, 8, 11, 24 W

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

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

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

Protection grade IP65

Protezione dagli urti IK07

Autonomy 1h, 2h, 3h

Working temp. 0°C ÷ +40°C

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

Housing White Polycarbonate RAL 9003

Optics Symmetrical, white

Louvre Transparent Polycarbonate

Light source LED

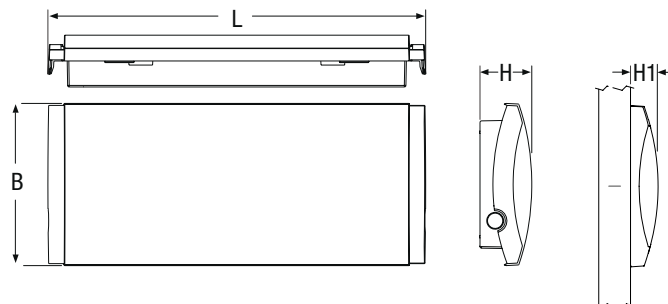
** Indicative power for comparison with fluorescent tube fixtures

Formula 65 LED

LED Emergency

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

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



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

** Indicative power for comparison with fluorescent tube fixtures

Autoripara Battery



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

AutoRipara Accessories

supplied

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



Accessories

supplied

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

Accessories

to be ordered separately

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

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

AT

Auto Test Ripara

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

LG-AR

Logica Ripara

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

LG-AR Granluce

Logica Ripara

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

LGFM-AR

Logica FM Ripara

W**	Order code	Description	Model	Autonomy	Battery	N° LED	Average Flux SE lm	Average Flux AR SE lm	Average Flux SA lm	Power consump. max W	Weight kg	Pack single
	8 19240	F65 LED 8W IP65 LGFM SE 1/2/3H	SE	1-2-3h	NiCd 3.6V 0.75Ah *	12	135/95/78	250/175/125	-	1.5	0.4	1/12
	8 19241	F65 LED 8W IP65 LGFM SA 1/2/3H	SA	1-2-3h	NiCd 3.6V 0.75Ah *	12	135/95/78	250/175/125	210	4	0.4	1/12
	11 19242	F65 LED 11W IP65 LGFM SE 1/2/3H	SE	1-2-3h	NiCd 3.6V 0.75Ah *	12	180/125/90	315/220/160	-	1,5	0,4	1/12
	11 19243	F65 LED 11W IP65 LGFM SA 1/2/3H	SA	1-2-3h	NiCd 3.6V 0.75Ah *	12	180/125/90	315/220/160	250	4.5	0.6	1/12
	24 19244	F65 LED 24W IP65 LGFM SE 1/2/3H	SE	1-2-3h	NiMH 3.6V 1.2Ah *	12	315/220/160	550/385/275	-	1.5	0.6	1/12
	24 19245	F65 LED 24W IP65 LGFM SA 1/2/3H	SA	1-2-3h	NiMH 3.6V 1.2Ah *	12	315/220/160	550/385/275	280	5.0	0.6	1/12

LGFM-AR Granluce

Logica FM Ripara

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

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

SLG

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

SICURO 24V

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

HT

Mains voltage power supply

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

WALL INSTALLATION WITH SPIRIT LEVEL



- CABLE GLAND FORMULA 65

CEILING MOUNTING



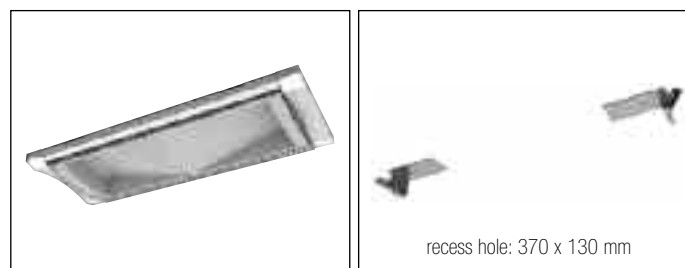
RECESSED MOUNTING



19040 FLUSH-MOUNTED BOX + F65 FRAMES

supplied

RECESSED MOUNTING ON SUSPENDED CEILING



recess hole: 370 x 130 mm

19041 SUSPENDED CEILING BRACKET F65

to be ordered separately

CABLE GLAND



- CABLE GLAND PG16/PG20 supplied

CABLE GROMMETS



- 3 IP CABLE GROMMETS supplied

RECESSED INTO SUSPENDED CEILING



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

WALL MOUNTING



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

EXIT SIGN LUMINAIRE (Visibility distance VD in table)



19044 ADES RIGHT, LEFT, BS supplied

AUTORIPARA BATTERY



AUTORIPARA SYSTEM:

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

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



GENERAL CHARACTERISTICS



Power* 24W

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

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

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

Protection grade IP65

Protezione dagli urti IK07

Autonomy 1h, 2h, 3h

Working temp. SE 0 $\div$ +50 °C

Working temp. SA 0 $\div$ +40 °C

Working temp. con ICE PACK -40 $\div$ +50 °C (+40°C Model SA)

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

Housing White Polycarbonate RAL 9003

Optics Symmetrical, white

Louvre Transparent Polycarbonate

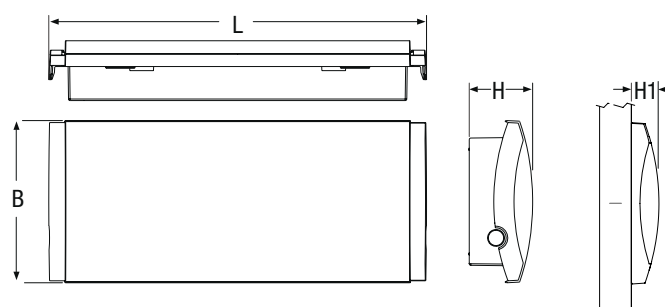
Light source LED

* Indicative power for comparison with fluorescent tube fixtures

Formula 65 LED 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.



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

* Equivalent power for comparison with fluorescent tube devices

Accessories

supplied

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

AutoRipara Accessories

to be ordered separately

Order code	Description	Battery
RA03	AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah)	



Autoripara Battery



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

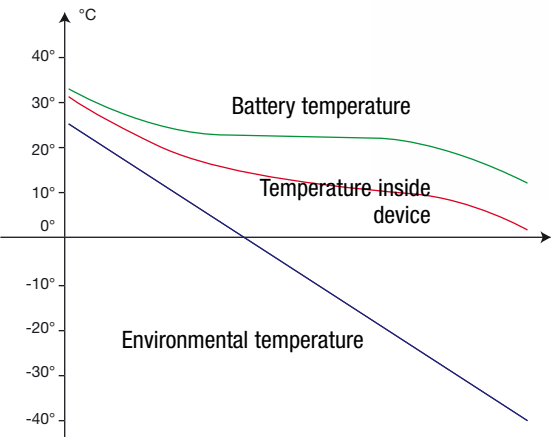
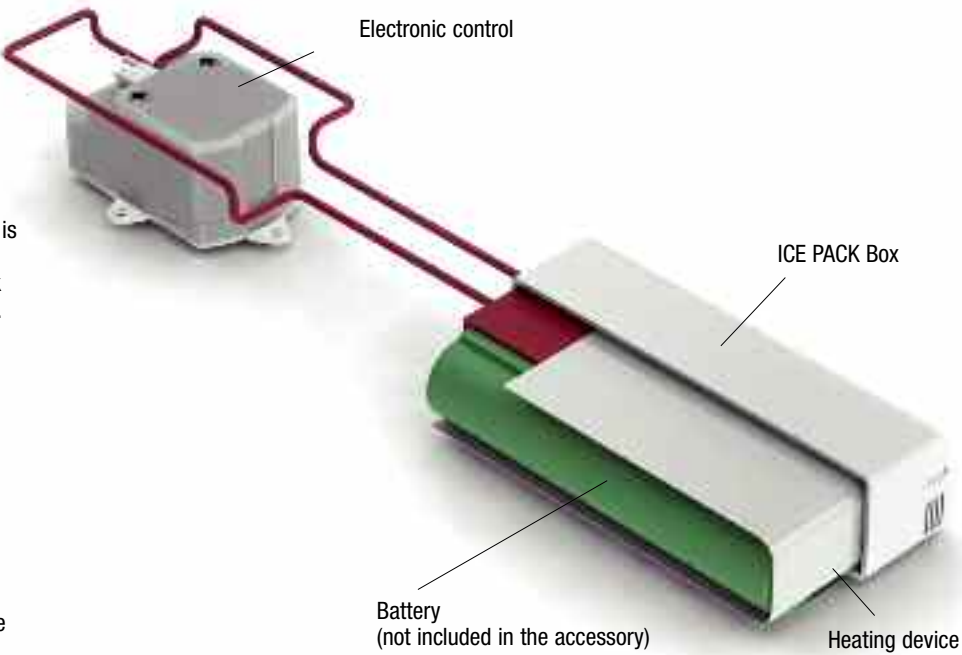
Accessories

to be ordered separately

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

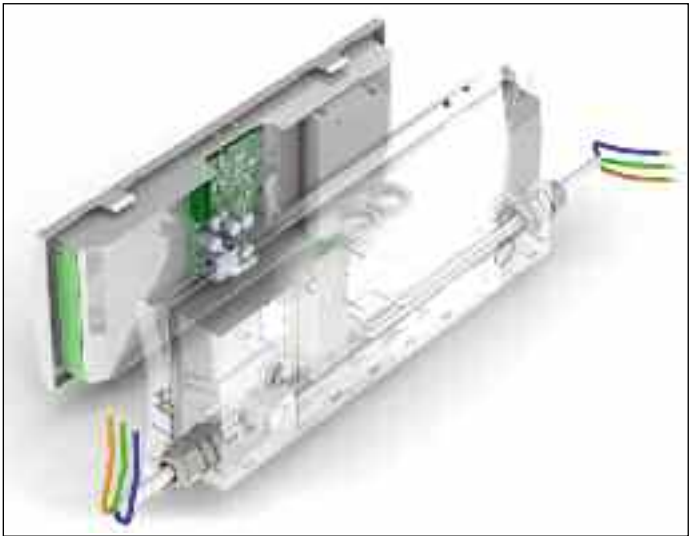


Accessory to maintain warm battery temperature even in working contexts with very low temperatures (-40°C). Ice Pack is controlled through an electronic circuit that is able to maintain a constant battery temperature. The absorption of the Ice Pack depends on the environmental temperature.



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

LGFM-AR

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

Accessories

THROUGH-WIRING CABLE



- THROUGH-WIRING CABLE supplied

CABLE GLAND M20



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

AUTORIPARA BATTERY



AUTORIPARA SYSTEM:

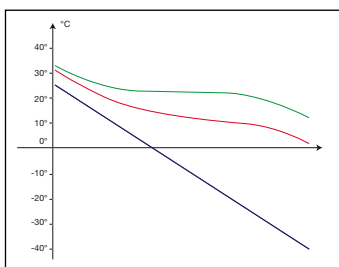
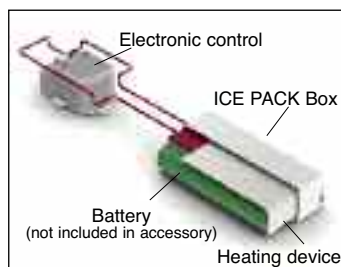
Inserting the Autoripara Battery, the device doubles the power or autonomy, and intervenes in the case of malfunctioning of the main battery

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

HOUSING FOR M20 CABLE GLAND



ICE PACK BATTERY



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 maintains a constant battery temperature.

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

Battery temperature alignment based on environmental temperature with Ice Pack Accessory

19046 ICE PACK BATTERY *to be ordered separately*

Installation accessories

WALL MOUNTING WITH SPIRIT LEVEL



CEILING MOUNTING

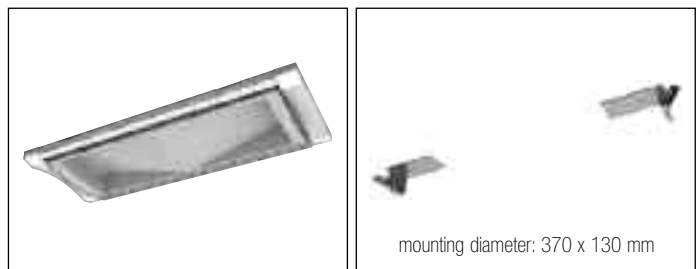


RECESSED MOUNTING



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

RECESSED INSTALLATION ON SUSPENDED CEILING



19049 CEILING BRACKET F65 EXTREME *to be ordered separately*

RECESSED INTO SUSPENDED CEILING



19049 SUSPENDED CEILING BRACKET F65 *to be ordered separately*

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

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

WALL MOUNTING



19045 WALL BRACKET *to be ordered separately*

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

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

SAFETY SIGNALING (Visibility distance VD in table)



19044 ADES RIGHT, LEFT, DOWN *supplied*



GENERAL CHARACTERISTICS

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

* Indicative power for comparison with fluorescent tube fixtures

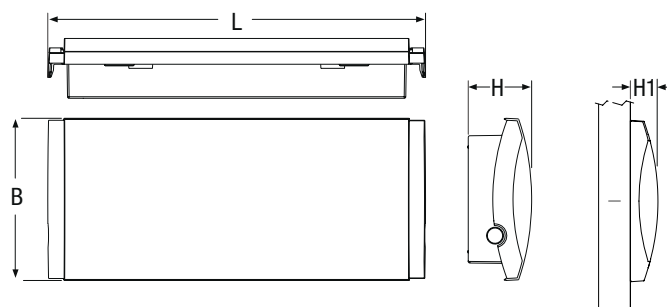
Formula 65 Deep

LED Emergency

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

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

The device is designed to accommodate the cabling because the dimension of the housing is bigger then 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.



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

* Equivalent power for comparison with fluorescent tube devices

Accessories

supplied

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

AutoRipara Accessories

to be ordered separately

Order code	Description	Battery
RA03	AUTORIPARA BATTERY SYSTEM (NiMH 3.6V 1.7Ah)	



Autoripara Battery



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

Accessories

to be ordered separately

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

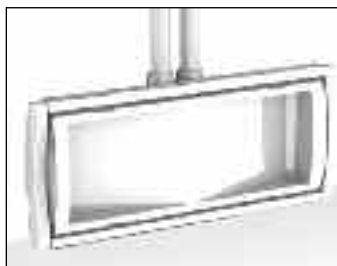
Accessories

CABLE GLAND M20



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

HOUSING FOR M20 CABLE GLAND



AT



opticom
TECHNOLOGY

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

LGFM



Logica FM

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

Installation accessories

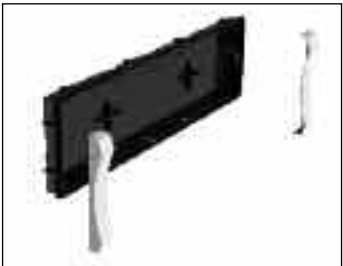
WALL MOUNTING WITH SPIRIT LEVEL



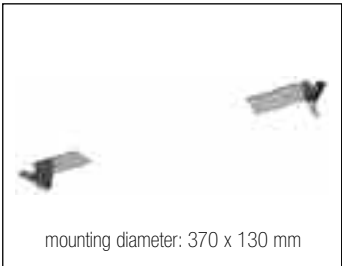
CEILING MOUNTING



RECESSED MOUNTING



RECESSED INSTALLATION ON SUSPENDED CEILING



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

19049 CEILING BRACKET F65 EXTREME *to be ordered separately*

RECESSED INTO SUSPENDED CEILING



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

WALL MOUNTING



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

SAFETY SIGNALING (Visibility distance VD in table)

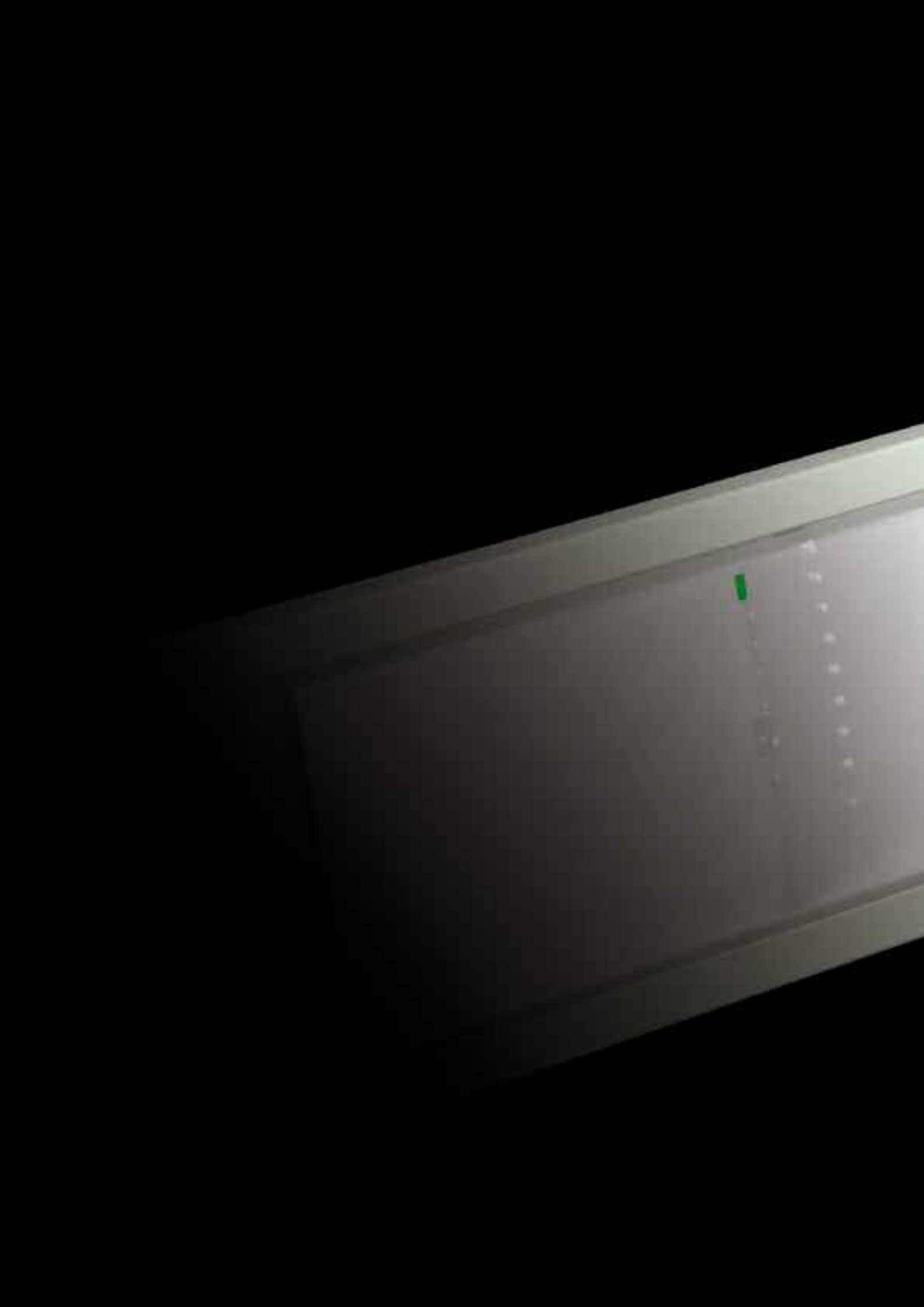


19044	ADES RIGHT, LEFT, DOWN	supplied
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Extreme installation both in terms of climatic conditions and difficulty of maintenance. Formula65 Capacitor is the solution that offers maximum safety in these cases. Recharging time in just a few minutes, so lighting is always available in emergency situations with repeated blackouts, in addition the supercapacitor power system has no limits at low temperatures and does not exhaust like normal batteries.



Aestetica LED

Apparatus bellis verecunde
Recessed, wall
deciperet catelli, ut



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

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

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

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



Aestetica LED

LED Emergency

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

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

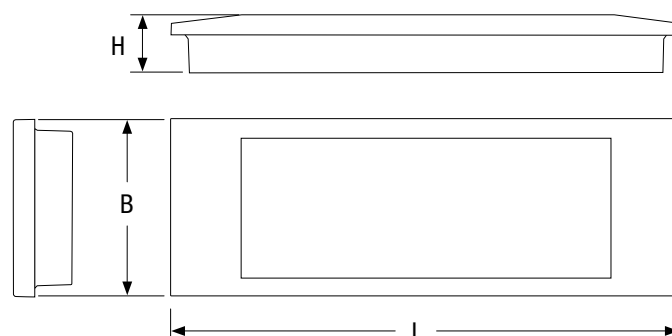
The photometric diagrams aside are showing the luminous flux optimization in wall as well as in ceiling installation.



GENERAL CHARACTERISTICS

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

* Indicative power for comparison with fluorescent tube fixtures



Power * (W)	• Dimensions (mm) • L B H	Number of LED	Visibility distance	Nominal flux
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

For product availability information please contact the Beghelli sales team

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



recess hole: 279x94 mm

4266	FALSE CEILING BRACKET	to be ordered separately
4267	FLAG SCREEN R/L	to be ordered separately
4268	FLAG SCREEN DOWN	to be ordered separately

WALL FLAG MOUNTING (VD 20M)



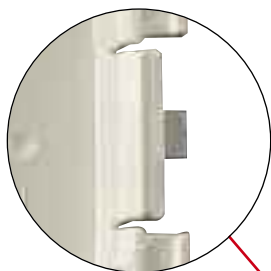
4265	WALL BRACKET FOR FLAG MOUNTING	to be ordered separately
4267	FLAG SCREEN R/L	to be ordered separately
4268	FLAG SCREEN DOWN	to be ordered separately

SAFETY SIGNALING (Visibility distance VD in table)



4269	SIGN SCREENS	to be ordered separately
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Fast click closing system to
open the fitting in few
seconds



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

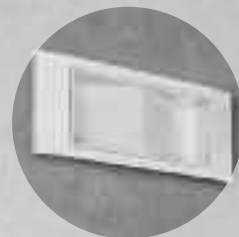


Aestetica LED housing cover

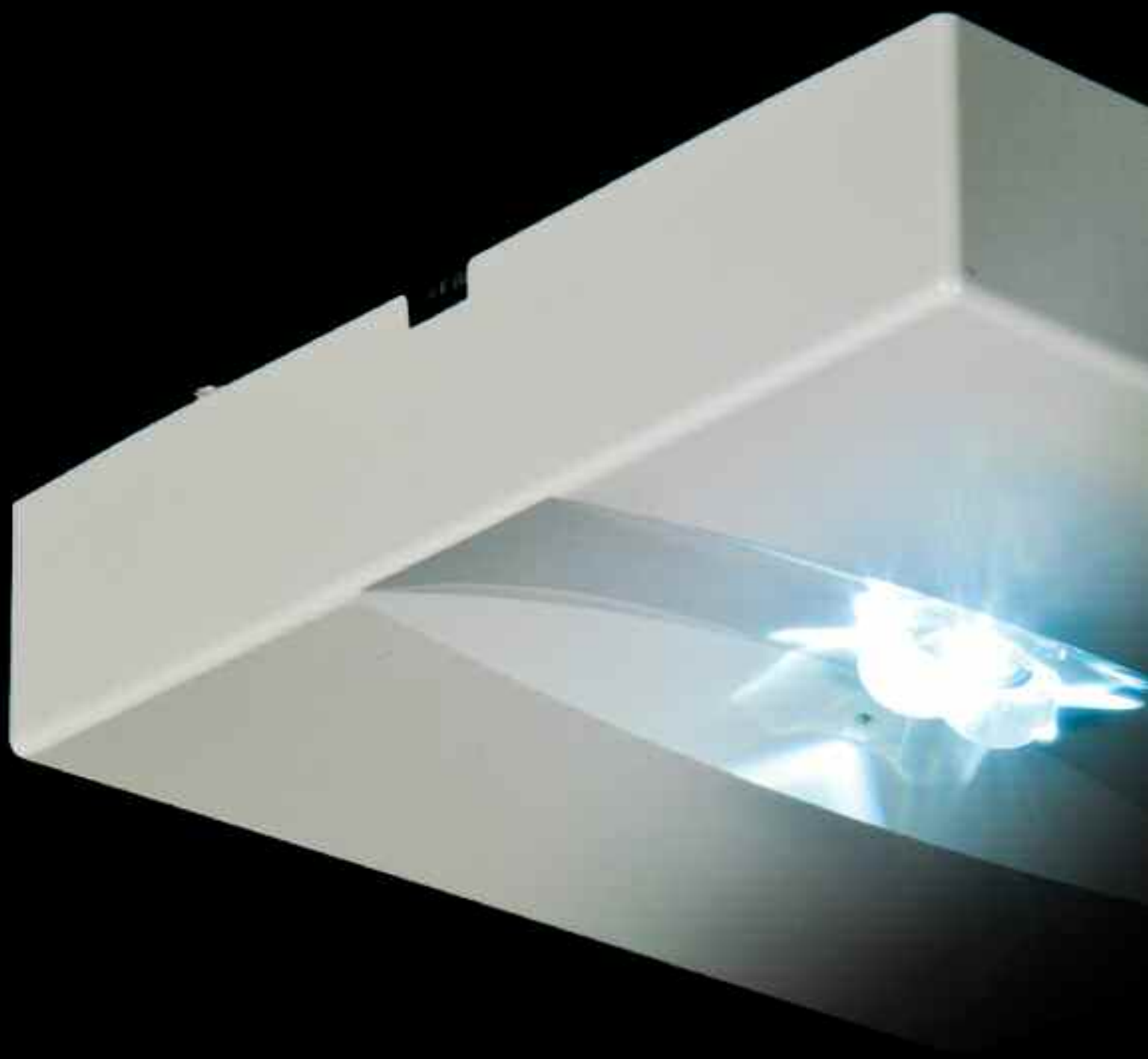
TR

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

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







Lungalargaluce LED

The most beautiful lamp
is the one that is not seen



A revolutionary fixture in conceptual terms which seems to express a historic thought of minimalist architecture: "The most beautiful lamp is the one that is not seen." There are countless examples of the perfect incarnation of this concept, especially in terms of the maximum reduction of the number of light sources and the visual dimensions of the fixture: only 14 cm side length and 3 thick. The fixture is also innovative in its multifunctional aspect: the shape and size of the illuminated area can be radically changed by choosing from the various lenses supplied.



Lungalargaluze LED

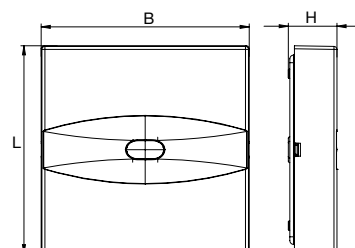
LED Emergency

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

GENERAL CHARACTERISTICS

Power**	24 W
Power supply	230Vac $\pm$ 10% 50Hz
Operation	HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM
Standard	EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI 11222, CEI EN 62471
Protection grade	IP42
Autonomy	1h, 2h, 3h selectable with DIP switch in the LG and LGFM versions
Working temp.	0°C ÷ +40°C
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



Accessories

supplied

Order code	Description
-	LUNGALUZE - long lens with cover
-	LARGALUZE - wide lens with cover
-	DIFFUSALUZE - diffused lens with cover

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

** Indicative power for comparison with fluorescent tube fixtures

AT

Autotest

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

LG

Logica

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

LGFM

Logica FM

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

SLG

	W**	Order Code	Description	Version	Autonomy	Battery	n° LEDs	Flux** SE lm	Flux SA lm	Absorption W	Weight kg	Pack
	24	17464	LLARG 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	LLARGA DWCL SY SLGS 24V	-	-	-	1	-	250	5,5	0,5	6
	24	17491	LLARGA DWCL ASY SLGS 24V	-	-	-	1	-	250	5,5	0,5	6
	24	17870	LLARGA DWCL SY SLGS 24V LS-UV	-	-	-	1	-	250	5,5	0,5	6
	24	17871	LLARGA DWCL ASY SLGS 24V LS-UV	-	-	-	1	-	250	5,5	0,5	6

HT

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

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

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

Thermofluidodynamic analysis: calculated heat dissipation

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

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

Compactness and easy to install

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

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

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

One fixture for several applications



Lungaluce - long lens

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



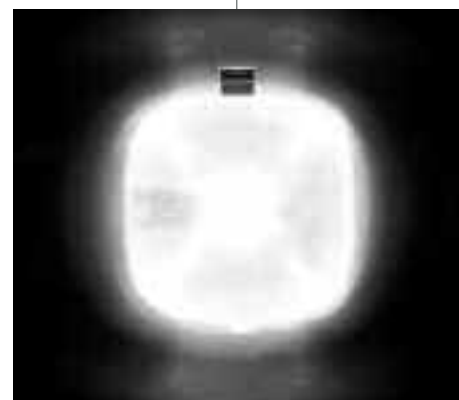
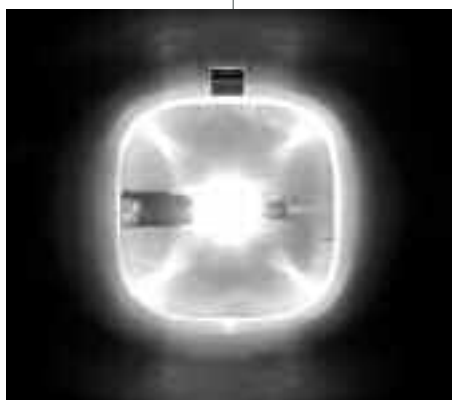
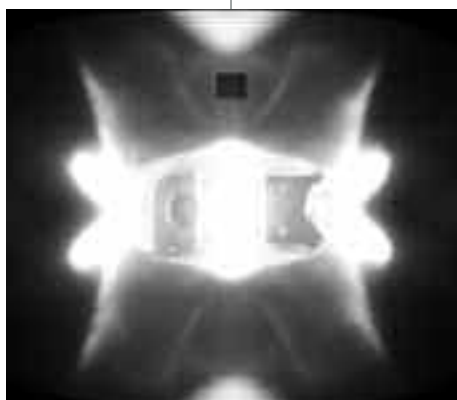
Largaluce - wide lens

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



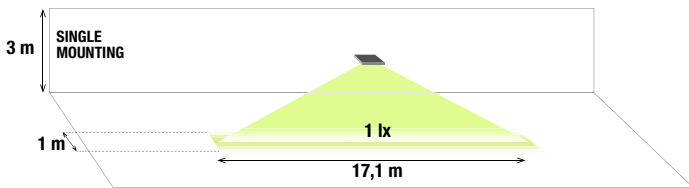
Diffusaluce - diffused lens

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



Technical demonstration of light output on the ground

Lungaluce - long lens - mounting 3 m above the ground

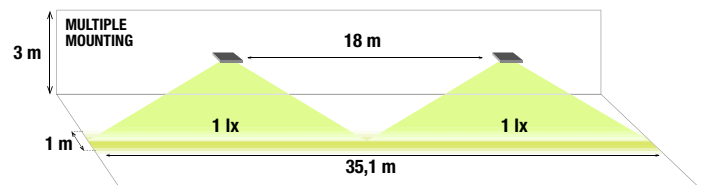


Single mounting

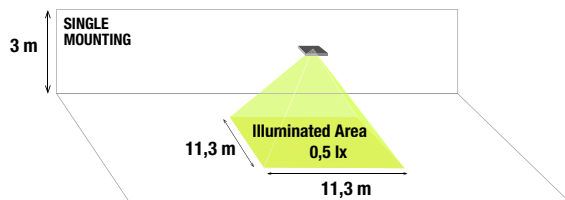
covering an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1m

Multiple mounting, fixture centre distance 18m

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



Largaluce - wide lens - mounting 3 m above the ground

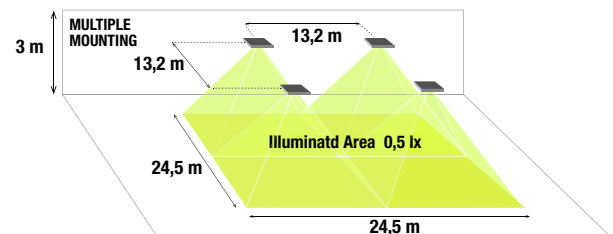


Single mounting

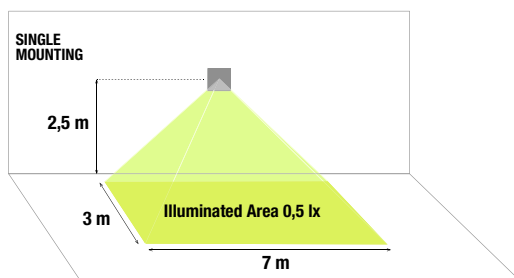
illuminates a surface of 11.3x11.3m at 0.5 lux (128 sq.m)

Multiple mounting, fixture centre distance 13,2m

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



Diffusaluce - diffused lens - mounting 2.5 m above the ground

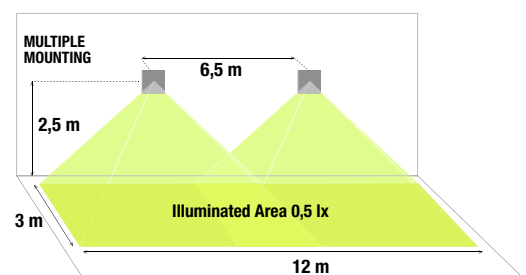


Single mounting

illuminates a surface of 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)





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.







Lungalargaluce LED

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

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



GENERAL CHARACTERISTICS

Power** 24 W

Power supply 230Vac ± 10% 50Hz

Operation HT, Permanent (SA)/Non Permanent (SE)/Public performance (PS) selectable with DIP switch in the LG and LGFM versions

Standard UNI 11222, EN 60598-1, EN 60598-2-2, EN 60598-2-22, CEI EN 62471

Protection grade IP42

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

Working temp. 0°C ÷ +40°C

Mounting suspended ceiling, recessed

Housing Polycarbonate white RAL 9010

Optics lenses in highly transparent PMMA

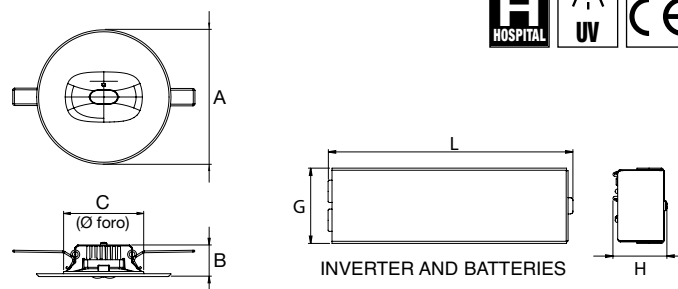
Light source LED

** Indicative power for comparison with fluorescent tube fixtures

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.



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

** Indicative power for comparison with fluorescent tube fixtures

Accessories

supplied

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

AT Autotest

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

LG Logica

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

LGFM Logica FM

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

SLG

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

SICURO 24V

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

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

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

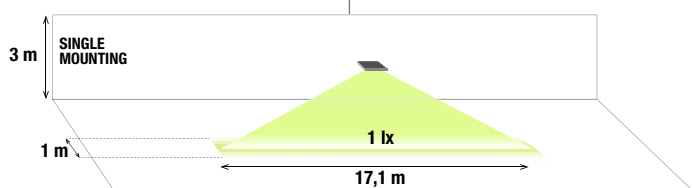
* Minimum flux guaranteed according to EN 60598-2-22

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

One fixture for several applications

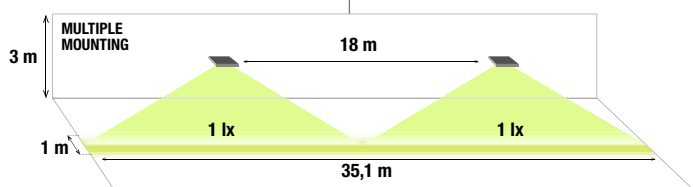


LUNGALUCE - LONG LENS



Single mounting

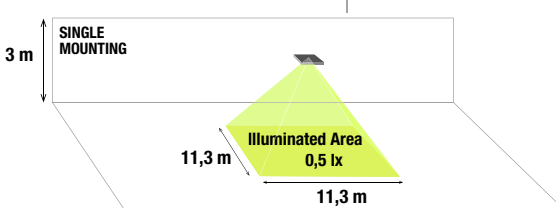
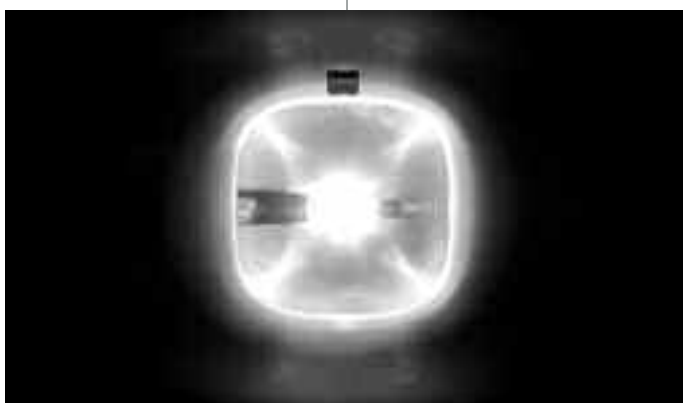
covering an escape route of 17.1m with 1 lux in the middle and > 0.5 within 1m



Multiple mounting, fixture centre distance 18m

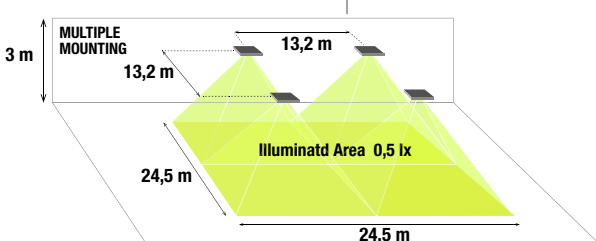
covering an escape route of 35.1m with 1 lux in the middle and > 0.5 within 1m

LARGALUCE - WIDE LENS



Single mounting

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



Multiple mounting, fixture centre distance 13.2 m

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



Andrea Cioni
ENDS IN
The end of the world



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



Ticinque LED

Lighting
The design of safety
for large spaces

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



**1250
lumen**

GENERAL CHARACTERISTICS

Power * 18, 24 W

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

Operation Permanent (SA), Non permanent (SE)

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

Protection grade IP65, IP42

Autonomy 1, 2, 3h - 8h (model 18W)

Working temp. 0 $\div$ +40 °C

Working temp. 0°C $\div$ +40°C

Installazione wall, ceiling

Housing White Polycarbonate RAL 9003

Optics Symmetrical, white

Louvre Transparent Polycarbonate

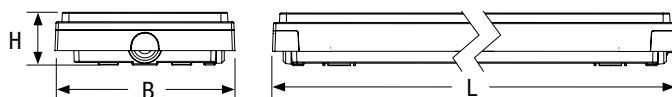
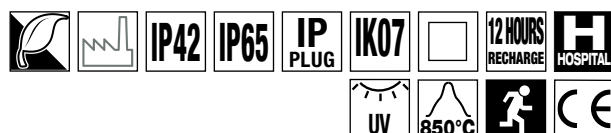
Light source LED

* Indicative power for comparison with fluorescent tube fixtures

Ticinque LED

LED Emergency

Device for emergency lighting designed for elevated luminous flux for installation in large commercial and industrial areas. The white Polycarbonate body includes a cuneiform reflector equipped with two highly-effective LED strips. The highly-transparent Polycarbonate lens has been designed to guarantee IP65 level protection. The external shell has 4 pre-scored access points, both for the direct passage of the wiring (IP PLUG Connector) and for connection with the smooth or corrugated $\varnothing$ 16 and $\varnothing$ 20 tube (Invisible connector).



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

* Indicative power for comparison with fluorescent tube fixtures

Accessories

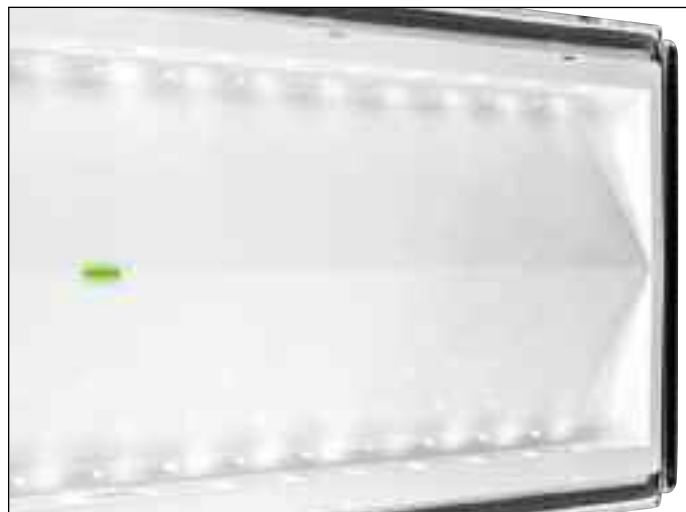
supplied

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
11582	ADES EXIT TICINQUE LED
11583	ADES LEFT TICINQUE LED
11584	ADES RIGHT TICINQUE LED
11585	ADES DOWN TICINQUE LED

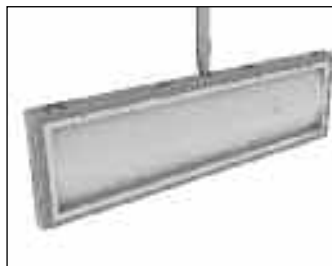


CUNEIFORM DOUBLE REFLECTOR WITH LED SIGNAL

CEILING MOUNTING



WALL MOUNTING



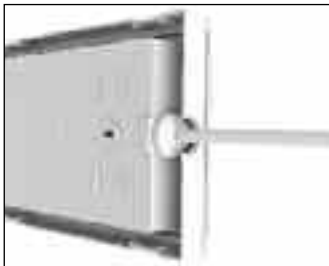
CABLE GLAND



- CABLE GLAND PG16/PG20

supplied

CABLE GROMMETS



- 3 IP CABLE GROMMETS

supplied

SAFETY SIGNALING (Visibility Distance VD in table)



- LABELS IN ACCESSORIES TABLE

to be ordered separately

TR Granluce

Traditional

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

TR

Traditional **IP42**

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

TR

Traditional **IP65**

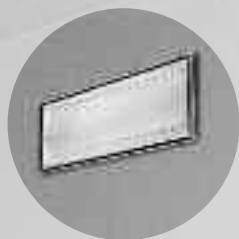
W	Order code	Description	Model	Autonomy	Battery	N° LED	Average Flux SE lm	Average Flux SA lm	Power consump. max W	Weight kg	Pack single
18	8586	TICINQUE IP65 LED 18WSE8P	SE	8h	PB 6V 4Ah	32	260		2	1.8	1/6
18	8587	TICINQUE IP65 LED 18WSA8P	SA	8h	PB 6V 4Ah	32	260	180	2/4	1.8	1/6

AT Granluce

Autotest

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





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



Granluce led

Design and versatility
IP65 Protection degree
for multiple applications



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



Granluce LED 6-11 W

LED Emergency

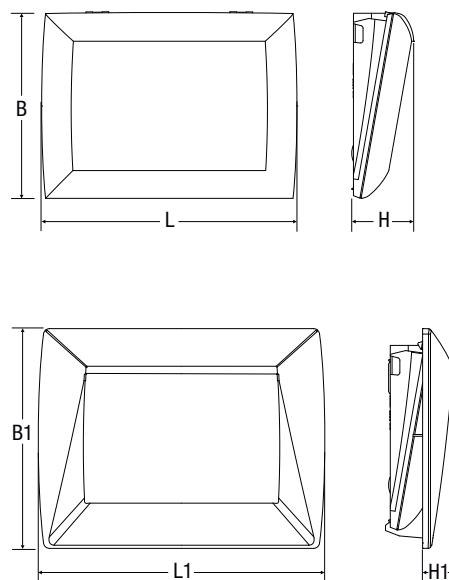
Fixture with high technical lighting output. LED light source with controlled beam lens. Dust-resistant monolithic optics. Polycarbonate housing, high-transparency diffuser. Large-radius reflector in metallized Polycarbonate with a geometry of complex facets and sequential reflecting planes. Waterproofing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



GENERAL CHARACTERISTICS

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

** Indicative power for comparison with fluorescent tube fixtures



recessed model

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

Accessories

supplied

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

Accessories

to be ordered separately

Order code	Description
12942	KIT RECESSED 6,11 W

CEILING MOUNTING



WALL MOUNTING



RECESSED MOUNTING



12942 RECESS KIT 6, 11W

to be ordered separately

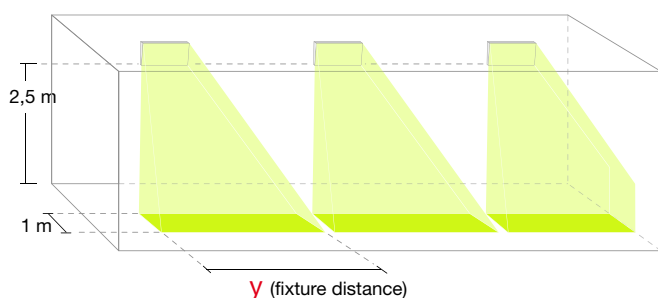
WALL MOUNTING IP65



3727 CABLE GLAND PG16/PG20 4003/RG

supplied

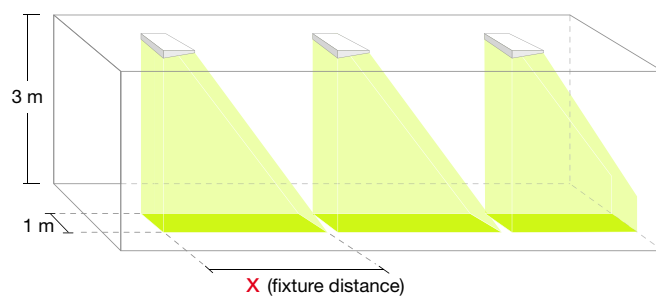
MOUNTING FOR ESCAPE ROUTES ON WALL



LIGHT BEAM 6-11 W

	6 W	11 W
y	5 m	5.5 m

MOUNTING FOR ESCAPE ROUTES ON CEILING



LIGHT BEAM 6-11 W

	6 W	11 W
x	4 m	4 m

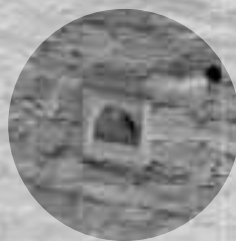
AT

Autotest

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

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

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







Granluce LED 8-18-24 W

LED Emergency

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



GENERAL CHARACTERISTICS

Power** 8, 18, 24 W

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

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

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

Protection grade IP65

Autonomy 1h, 3h

Working temp. 0°C $\div$ +40°C

Mounting wall, ceiling, recessed

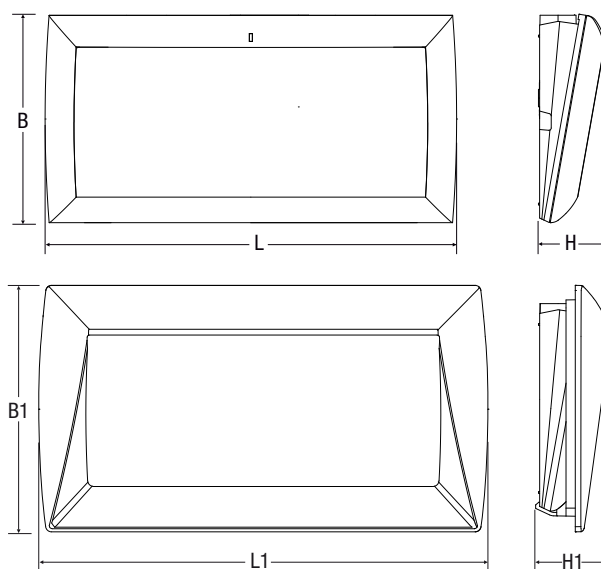
Housing Polycarbonate, white RAL 9010

Optics Asymmetrical with complex facets, metallized

Louvre Transparent Polycarbonate

Light source LED

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



recessed model

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

Accessories

supplied

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

CEILING MOUNTING



Accessories

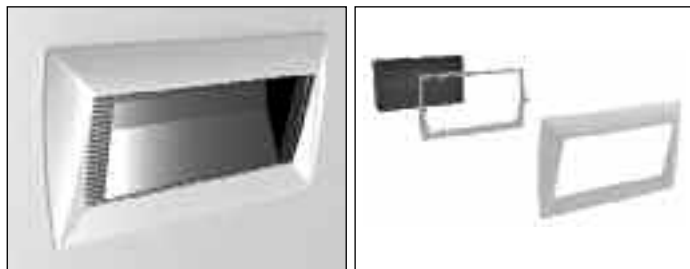
to be ordered separately

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

WALL MOUNTING



RECESSED MOUNTING



12942 RECESS KIT 6, 11W

to be ordered separately

WALL MOUNTING IP65



3727 CABLE GLAND PG16/PG20

supplied

ANTI-PANIC MOUNTING ON WALL

LIGHT BEAM 2 LED

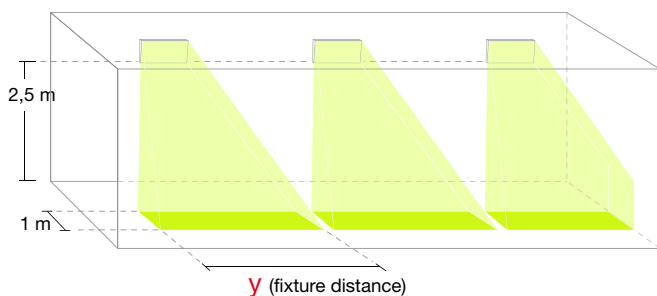
Surface 20 sq.m
Illumination 0.5 lux (on floor)

ANTI-PANIC MOUNTING ON CEILING

LIGHT BEAM 2 LED

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

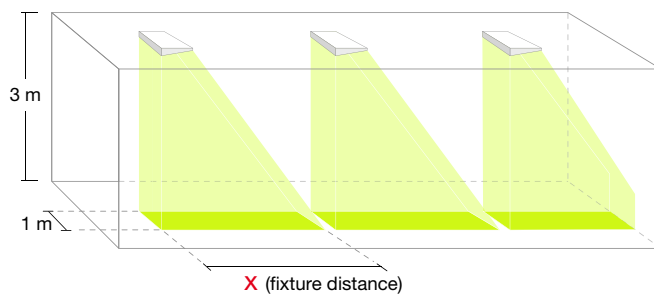
MOUNTING FOR ESCAPE ROUTES ON WALL



LIGHT BEAM 8-18-24 W

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

MOUNTING FOR ESCAPE ROUTES ON CEILING



LIGHT BEAM 8-18-24 W

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

AT

Autotest

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

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

SLG

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

HT

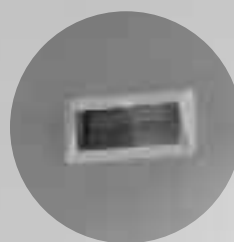
Mains voltage power supply (ca 230V 50 Hz - cc 216V)

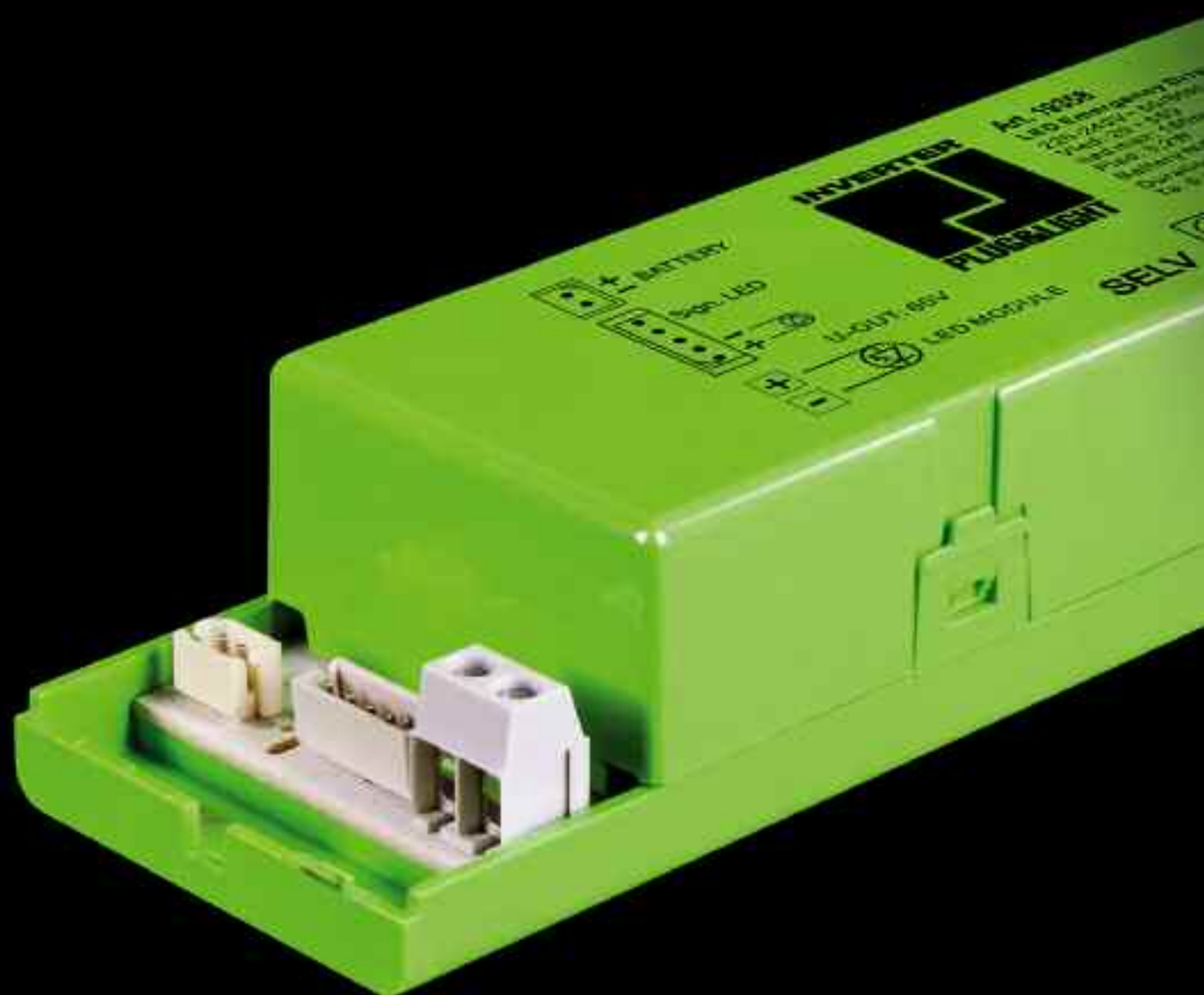
W	Order code	Description	Model	Autonomy	Battery	N° LED	Flux* SE lm	Flux* SA lm	Absorption W	Weight kg	Pack
3,6	17422	GRANLUCE 2LED HT IP65	SE/SA	1-3h	-	2	-	-	-	0,8	6

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



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





Plug&Light LED Inverter

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

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

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

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

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

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





GENERAL CHARACTERISTICS

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

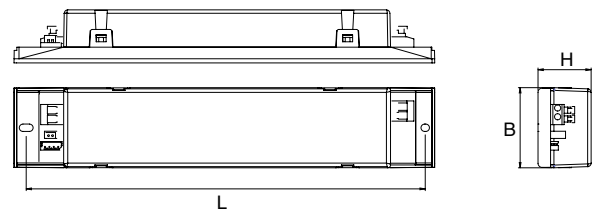
Inverter LED Plug&Light

Immediate connection inverter

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



model IP40



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

model IP65

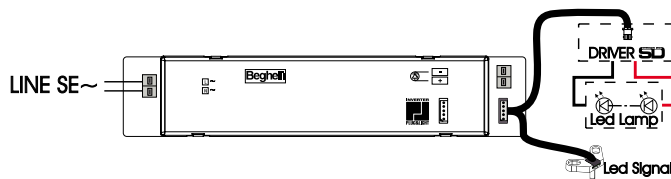


IP	• Dimensions (mm) •			Weight max kg
	L	B	H	
65	301	139	55	0.8

Accessories

supplied

Order code	Description
-	CABLE COVERS



shield with SD Driver

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

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

Flux= P inverter x $\frac{F_n}{P_n}$ where:

P = Inverter nominal power (in the 1h version = 3.2W)
F_n = Device nominal flux (for BS100 LED = 7500lm)
P_n = LED nominal power (for BS100 LED = 59W)

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

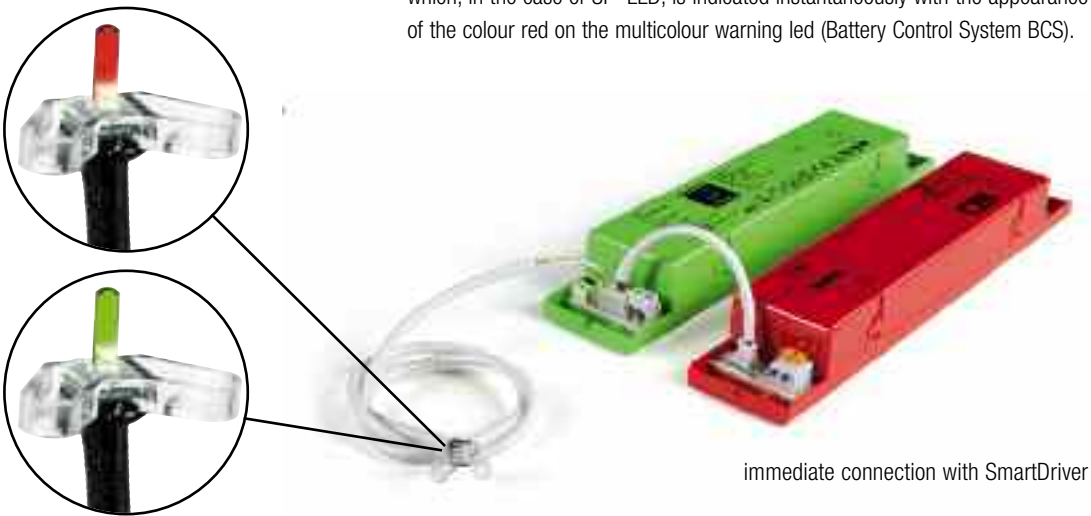


BATTERY CONTROL SYSTEM

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

Red warning LED:
**BATTERY
MALFUNCTION**

Green warning LED:
**FIXTURE
FULLY EFFICIENT**



INVERTER

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

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



Inverter LED

the emergency
IP40-IP65
in lighting

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

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



GENERAL CHARACTERISTICS

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

Inverter LED

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

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

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

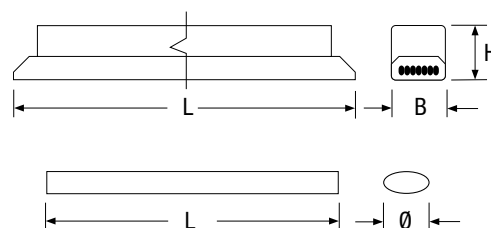
The recharging system guarantees 1h of autonomy after 12h of recharging in the 2h and 3h configurations.

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

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

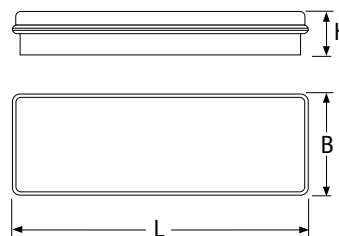


model IP40



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

model IP65



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

Autoripara Battery



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

AutoRipara Accessories

to be ordered separately

Order code	Description	Battery
RA02	BATT SYST AUTORIPARA conversion kit	NiMh 7.2V 1.7Ah



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

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

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

P = Inverter nominal power (in the 1h model = 6W)

F_n = Device nominal flux (for BS100 LED = 7500lm)

P_n = LED nominal power (for BS100 LED = 59W)

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

With Autoripara accessory:

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



Autonomy 1 hour
Flux 407lm

AT-LG

Logica

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

AT-LG

Logica **IP65**

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

AT-LGFM

Logica FM

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

AT-LGFM

Logica FM **IP65**

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



Elettrinverter

Can also be used
Emergency turns lighting on
with centralised systems



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



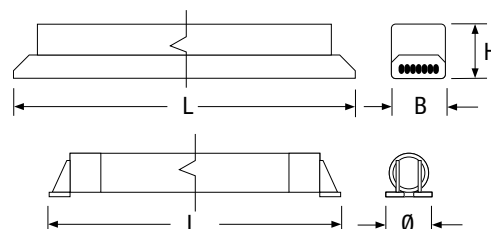
Elettrinverter Logica

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

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

GENERAL CHARACTERISTICS

Potenza	13÷80 W
Power supply	230Vac ± 10% 50Hz
Operation	Permanent (SA)
Standard	EN 61347-1, EN 61347-2-7
Protection grade	according to the fixture in which it is mounted
Autonomy	1h - 3h, 1-2.20h
Temp. Ambiente	0 + 50°C (Battery) -20 + 50°C (Inverter)
Max temperatura sul Box	70°C
Specifiche	Nominal output frequency: with 30kHz lamp LED charging circuit activation light - Charging time: 12 hours
Housing	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	
Battery current		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%	-			
		35	21%	-			
T5	G5 FQ	24	41%	10%			
		39	25%	-			
		49	15%	-			
		54	13%	-			
		80	8%	-			
TC-L	2G11	24	41%	10%			
		36	24%	6%			
		40	19%	5%			
		55	9%	-			
TCD*, TOE		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
H	18÷58	12126	ELETT 935 2 LG 14-80SA	SA	1-3h	NiCd 7.2V 2.2Ah	-	0.7	12

LGFM

Logica FM

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

Compact Elettrinverter

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



GENERAL CHARACTERISTICS

Potenza T5 14÷80 W T5
T8 18÷58 W

Power supply 230Vac ± 10% 50Hz

Operation Permanent (SA), RM

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

Protection grade according to the fixture in which it is mounted

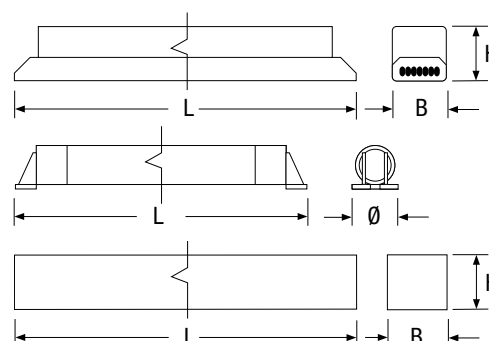
Autonomy T5 1h - 1h30 - 3h
T8 1h - 1h30 - 2h - 3h - 4h - 7h

Temp. Ambiente 0 + 50°C (Battery)
 -20 + 50°C (Inverter)

Max temperatura sul Box 70°C

Specifiche 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 mm²

Housing Polycarbonate



Order code Inverter	Inverter Dimensions (mm)			Battery Dimensions (mm)		model
	L	B	H	L	Ø	
T5						
8488, 8489	230	30	26	208	29	NiCd
8490, 8491	230	30	26	340	37	NiCd
8492, 8493	230	30	26	340	37	NiCd
T8						
8480, 8481	230	30	26	340	37	NiCd
8482, 8483	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
8488	30% - 1h30	29% - 1h	30% - 1h30	-	-	-	-	-	-
8489	30% - 1h30	29% - 1h	30% - 1h30	-	-	-	-	-	-
8490	30% - 3h	30% - 1h30	30% - 1h30	-	-	-	-	-	-
8491	30% - 3h	30% - 1h30	30% - 1h30	-	-	-	-	-	-
8492	-	-	-	30% - 1h30	30% - 1h	30% - 1h30	25% - 1h	15% - 1h	12% - 1h
8493	-	-	-	30% - 1h30	30% - 1h	30% - 1h30	25% - 1h	15% - 1h	12% - 1h

FLUX - AUTONOMY - model T8

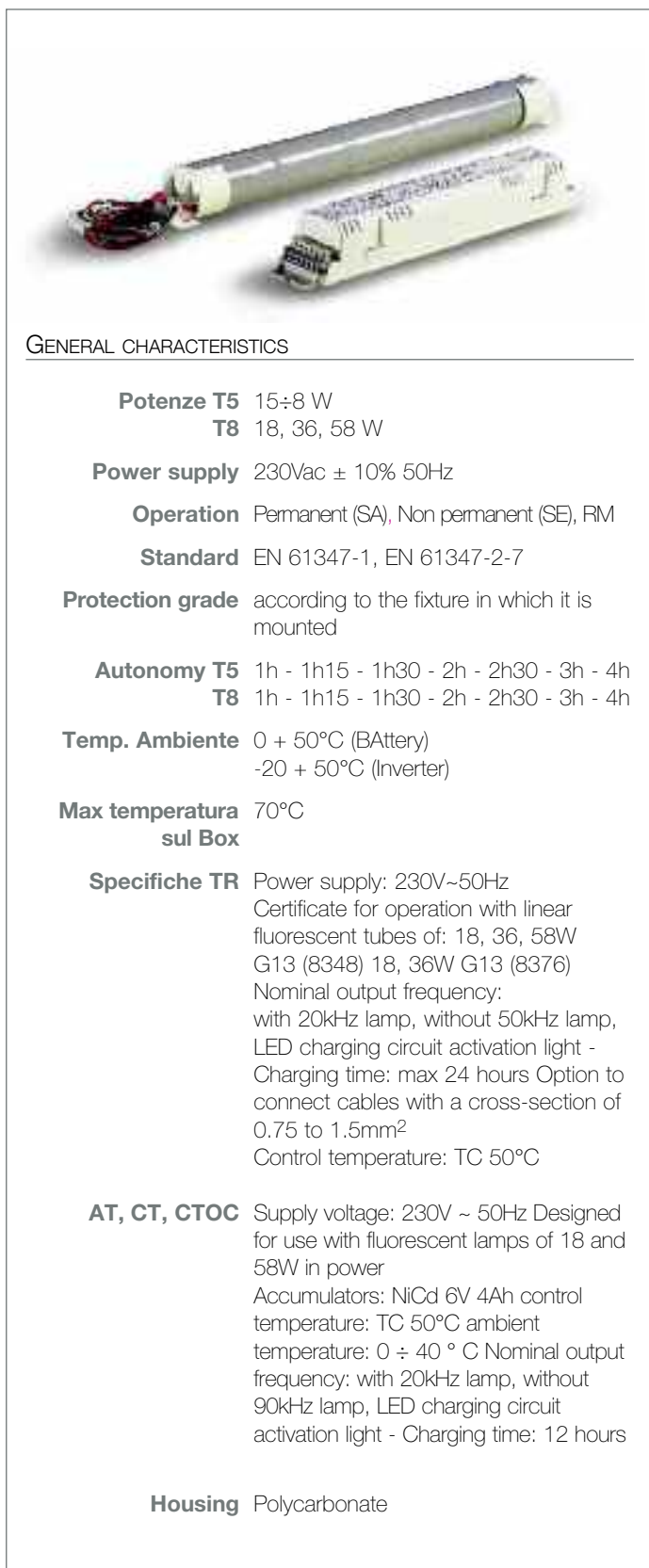
Cod. ord.	18 W	36 W	58 W
8480	32% - 2h	24% - 1h30	18% - 1h
8481	32% - 2h	24% - 1h30	18% - 1h
8482	13% - 7h	9% - 4h	8% - 3h
8483	13% - 7h	9% - 4h	8% - 3h
8478	16% - 2h	12% - 1h	0,8% - 1h

TR Traditional T5

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

TR Traditional T8

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



GENERAL CHARACTERISTICS

Potenze T5 15÷8 W
T8 18, 36, 58 W

Power supply 230Vac ± 10% 50Hz

Operation Permanent (SA), Non permanent (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

Temp. Ambiente 0 + 50°C (Battery)
 -20 + 50°C (Inverter)

Max temperatura sul Box 70°C

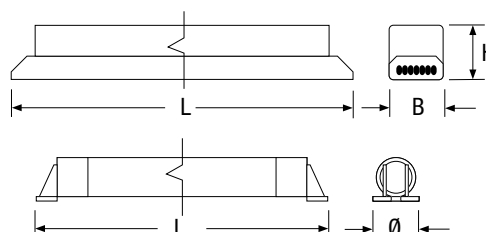
Specifiche TR Power supply: 230V~50Hz
 Certificate for operation with linear fluorescent tubes of: 18, 36, 58W
 G13 (8348) 18, 36W G13 (8376)
 Nominal output frequency:
 with 20kHz lamp, without 50kHz lamp,
 LED charging circuit activation light -
 Charging time: max 24 hours Option to
 connect cables with a cross-section of
 0.75 to 1.5mm²
 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

Elettrinverter

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



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

TR

Traditional - 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

TR

Traditional 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

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.



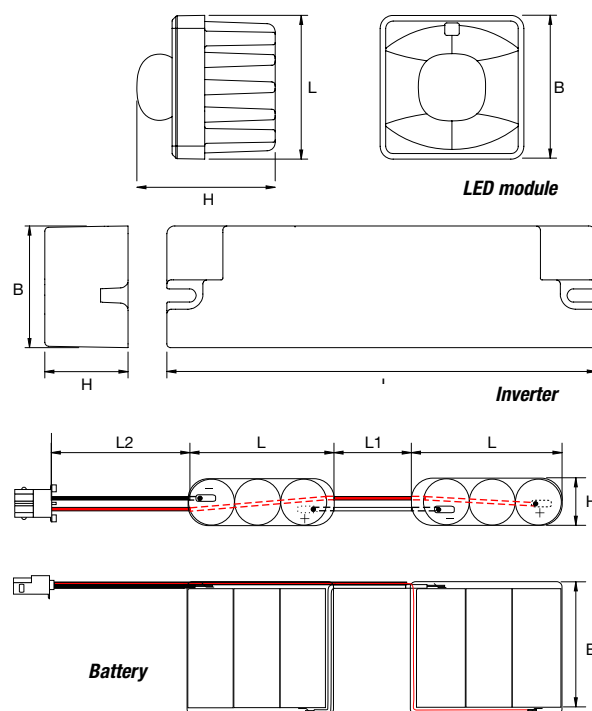
GENERAL CHARACTERISTICS

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

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.



Accessories

supplied

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

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

** Indicative power for comparison with fluorescent tube fixtures

AT

Autotest

	W	Order code	Description	Model	Autonomy	Battery	N° LED	Flux* SE lm	Flux* SA lm	Absorption W	Weight kg	Pack
	2	19341	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	19342	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	19343	MODULE EM LED LGFM SE/SA/PS 1/2/3H	SE/SA/PS	1/2/3h	NiMH 7.2V 1.2Ah	1	250/190/165	165	2/7,5	0,2	6

SLG

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

HT

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

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

SICURO 24V

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

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

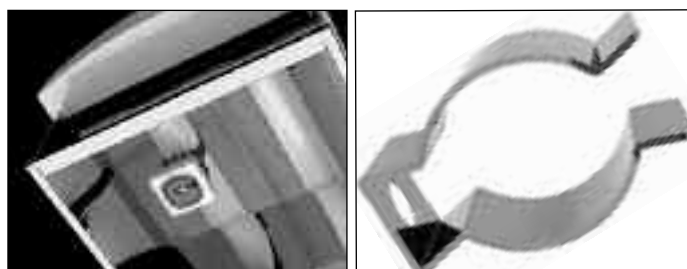
MOUNTING ON A FIXTURE WITH T5 LAMPHOLDERS



- STEEL CLIP

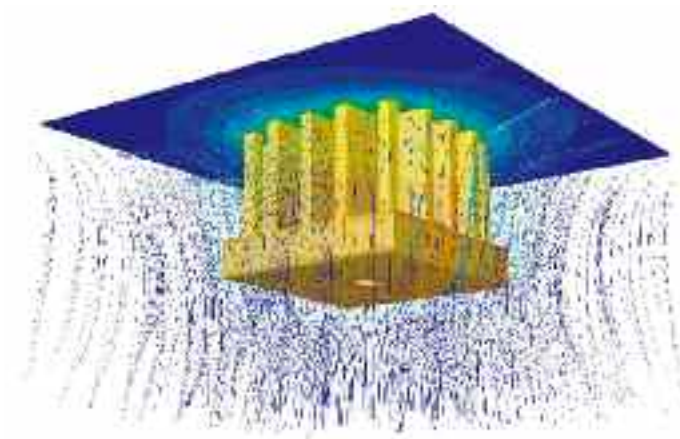
supplied

MOUNTING ON A FIXTURE WITH T8 LAMPHOLDERS



- STEEL CLIP

supplied



Thermofluidodynamic analysis: calculated heat dissipation

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

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

One fixture for several applications



Dedicated inverter
supplied

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



battery pack



Lungaluce - long lens

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



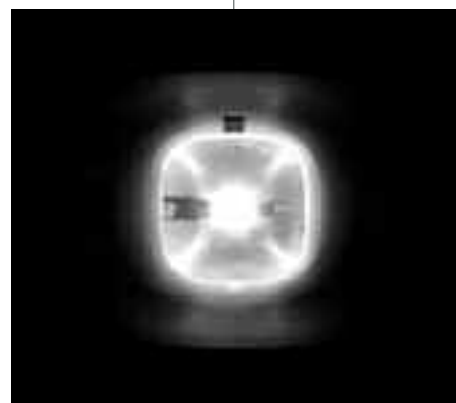
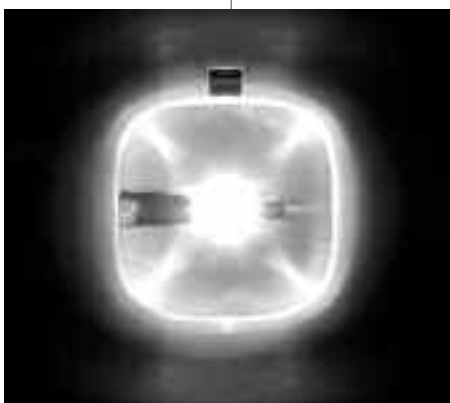
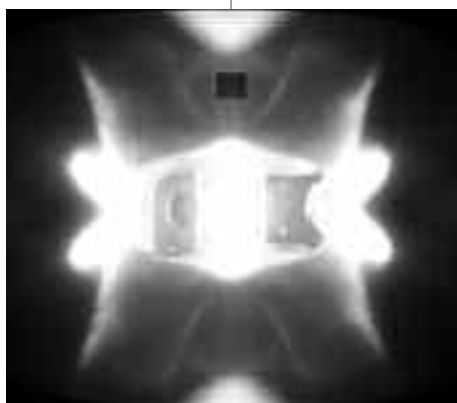
Largaluce - wide lens

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



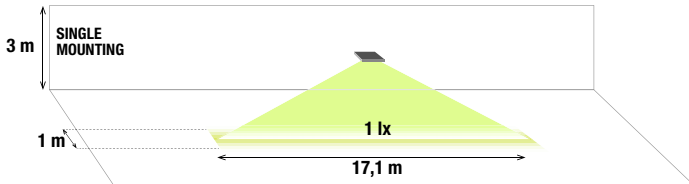
Altaluce - high lens

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



Technical demonstration of light output on the ground

Lungaluce - long lens - mounting 3 m above the ground

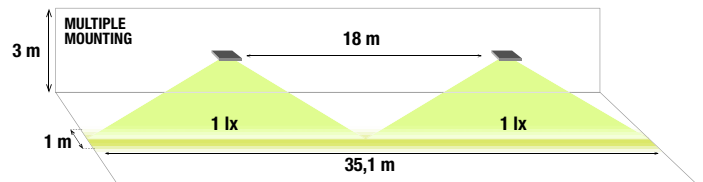


Single mounting

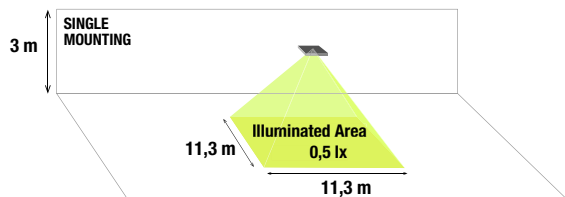
covers an escape route of 17.1 m with 1 lux in the middle and > 0.5 within 1 m

Multiple mounting, fixture centre distance 18 m

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



Largaluce - wide lens - mounting 3 m above the ground

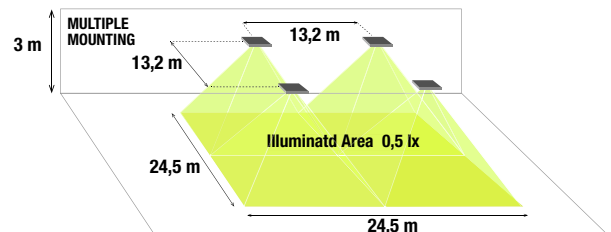


Single mounting

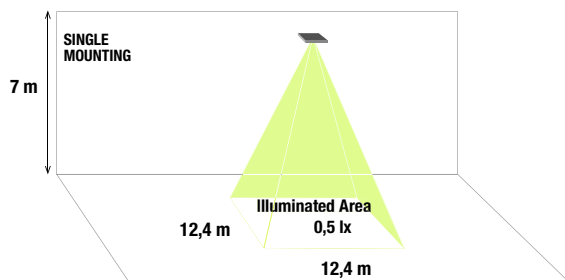
illuminates a surface of 11.3x11.3 m at 0.5 lux (128 sq.m)

Multiple mounting, fixture centre distance 13.2 m

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



Altaluce - high lens - mounting 7 m above the ground

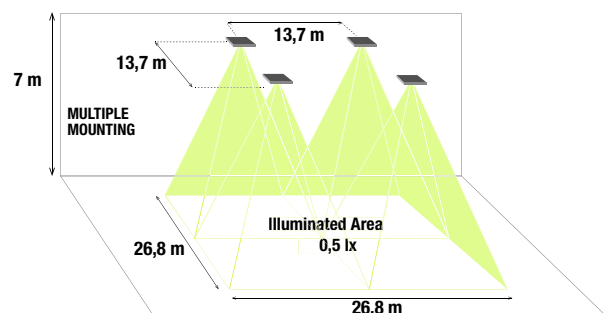


Single mounting

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

Multiple mounting, fixture centre distance 13.7 m

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

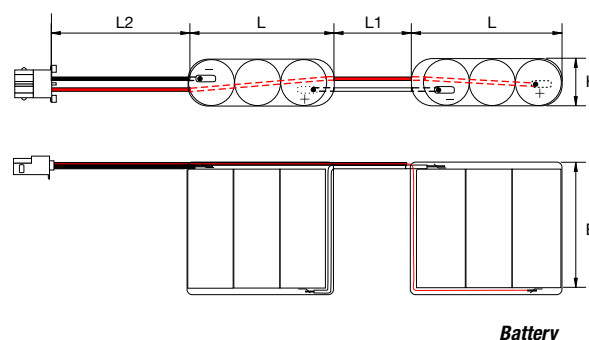
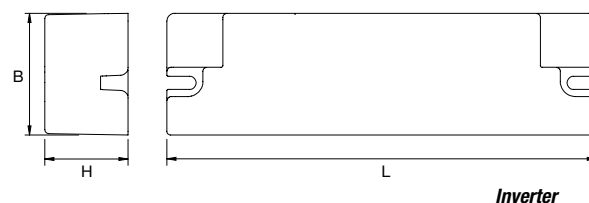
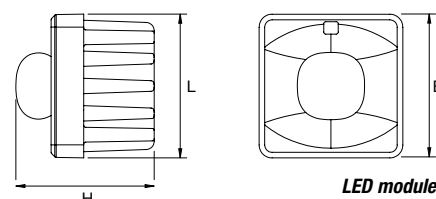


EcoLED Inverter module



GENERAL CHARACTERISTICS

Potenze	1,5 W
Power supply	230Vac $\pm$ 10% 50Hz
Operation	Permanent (SA), Non Permanent (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 UNI 11222
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



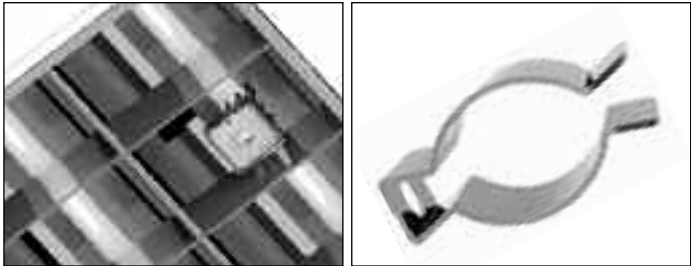
	Power W	L	• Dimensions (mm) •				Lamp
			L1	L2	B	H	
Modulo LED	1,5	36			36	28	1 LED
Inverter	-	114			32	22	-
Battery	-	40	70	80	50	14,5	-

Accessories

supplied

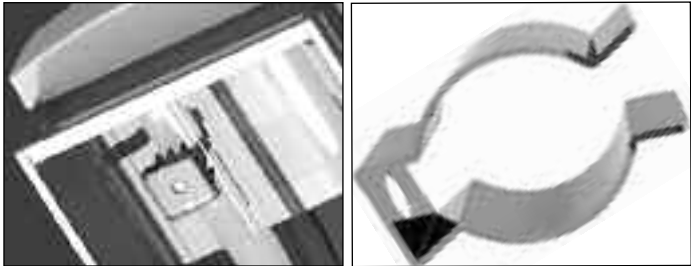
Order Code	Description
-	3 LENSES: LUNGA, LARGA, ALTA with 3 different covers
-	2 SPRINGS FOR FIXING ON T8 AND T5 LAMPHOLDERS

MOUNTING ON A FIXTURE WITH T5 LAMPHOLDERS



- STEEL CLIP supplied

MOUNTING ON A FIXTURE WITH T8 LAMPHOLDERS

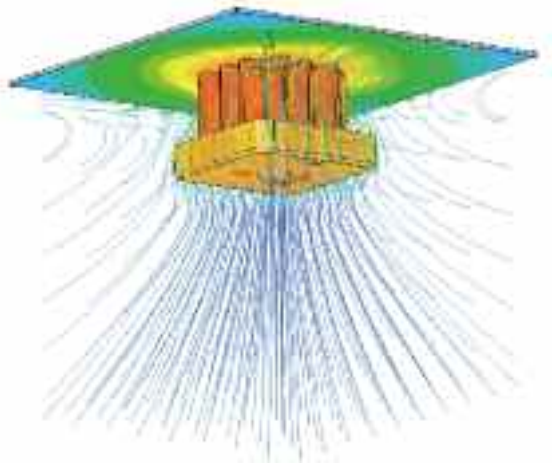


- STEEL CLIP supplied

LENSES SUPPLIED



- LUNGALUCE supplied - LARGALUCE supplied - ALTALUCE supplied

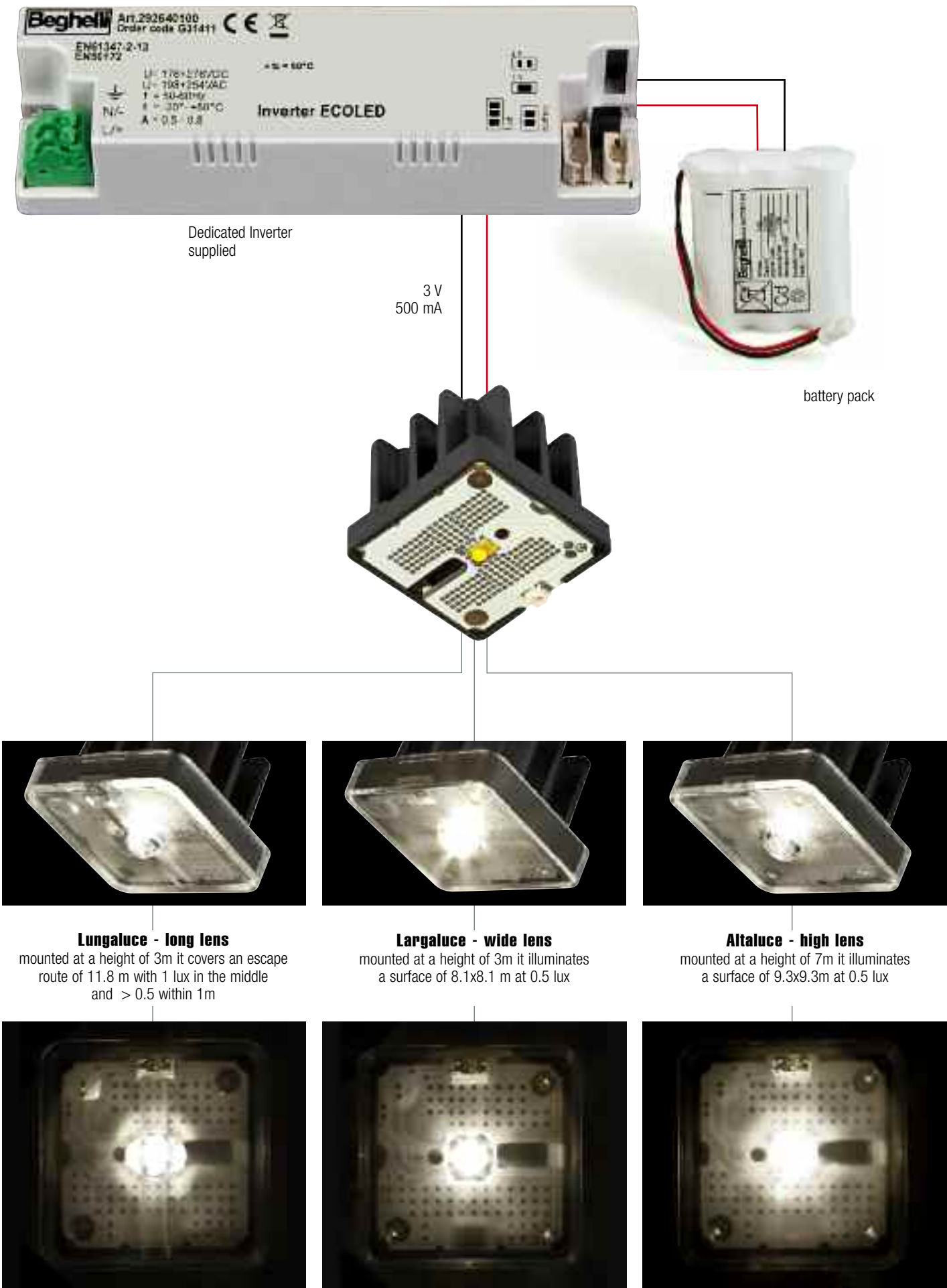


Thermofluidodynamic analysis: calculated heat dissipation

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

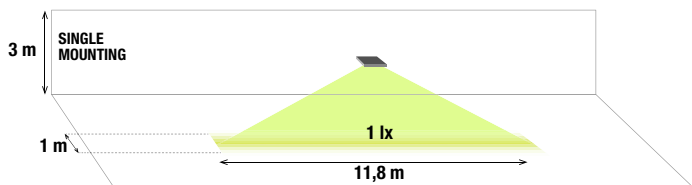
TR										Traditional
W	Order code	Description	Model	Autonomy	N° LED	Battery	Absorption max W	Weight kg	Pack	
1,5	19350	INVERTER LED SE 1N RM	SE	1h	1	NCHT 3.6V 0.75Ah	1	0,25	6	

One fixture for several applications



Technical demonstration of light output on the ground according to UNI EN 1838

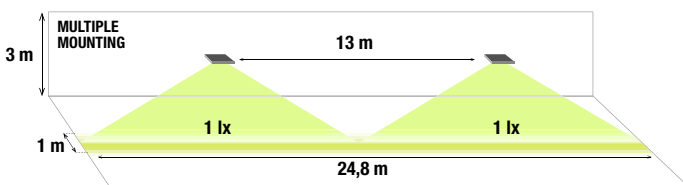
Lungaluce - long lens - mounting 3 m above the ground



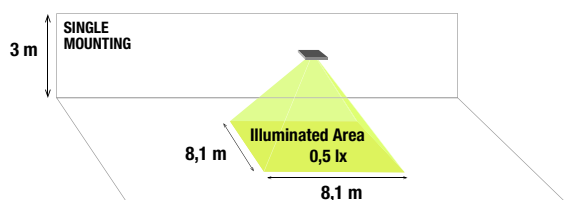
Single mounting

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

Multiple mounting, fixture centre distance 13 m
covers an escape route of 24.8 m with 1 lux in the middle and > 0.5 within 1 m



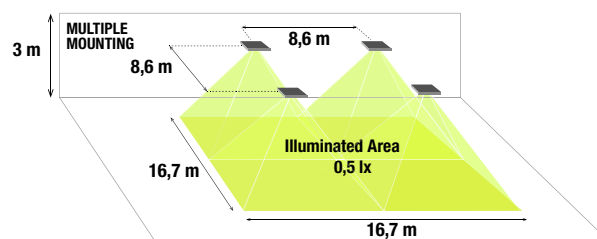
Largaluce - wide lenses - mounting 3 m above the ground



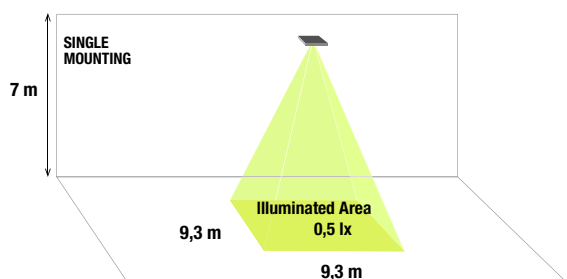
Single mounting

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

Multiple mounting, fixture centre distance 8.6 m
illuminates a surface of 16.7 x 16.7 m at 0.5 lux



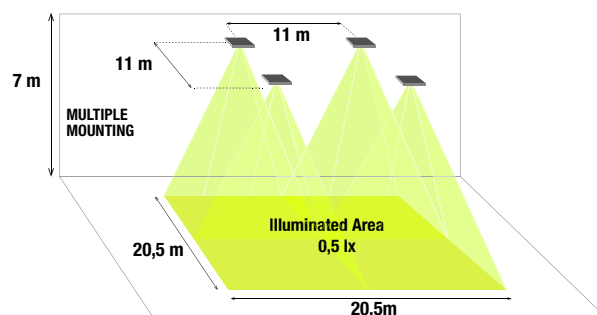
Altaluce - high lens - mounting 7 m above the ground



Single mounting

illuminates a surface of 9.3 x 9.3 m at 0.5 lux

Multiple mounting, fixture centre distance 11 m
illuminates a surface of 20.5 x 20.5 m at 0.5 lux





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





Scout LED

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

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



Scout led

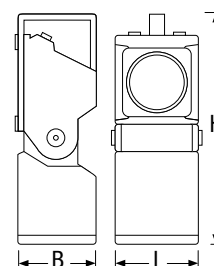
Portable emergency device

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

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

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

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



GENERAL CHARACTERISTICS

Power 2,4W

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

Operation SE-SA
(If connected to a power outlet)

Standard EN 60598-1, EN 60598-2-4.

Protection grade IP40

Power supply 220-240V / 50-60 Hz

Autonomy after 36h of charge 9.5h
main LED after 24h of charge 8.5h

Autonomy after 36h of charge 85h
secondary LED after 24h of charge 80h

Housing Polycarbonate RAL 2003

Optics Symmetrical, metallized

Louvre Transparent Polycarbonate

Light source LED

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

Accessories

supplied

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

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

Accessories

to be ordered separately

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

Order code	Description
3726	90 SCOUT 4001/SC DIFFUSER

SHOULDER STRAP

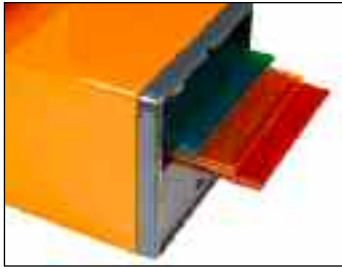


3913 SHOULDER STRAP supplied

ADJUSTABLE HEAD



SHIELDS



3728	TRANSPARENT DIFFUSER SHIELD	supplied
3729	RED SHIELD	supplied
3730	ORANGE SHIELD	supplied
3731	GREEN SHIELD	supplied

TR

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







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 $\pm$ 10% 50Hz

Operation Permanent (SA)

Standard EN 60598-1, EN 60598-2-2,
EN 60598-2-22, UNI EN 1838,
UNI 11222, DIN 4844-1

Protection grade IP40

Autonomy 1h, 1,5h, 2h, 3h, 8h

Working temp. -20°C ÷ +50°C (Titanium Battery)

Mounting wall, suspended ceiling, ceiling with
stems and cables suspended wall,
suspended ceiling, three-phase binary

Power supply Electronic control gear
with constant current

Housing White Polycarbonate, RAL 9003

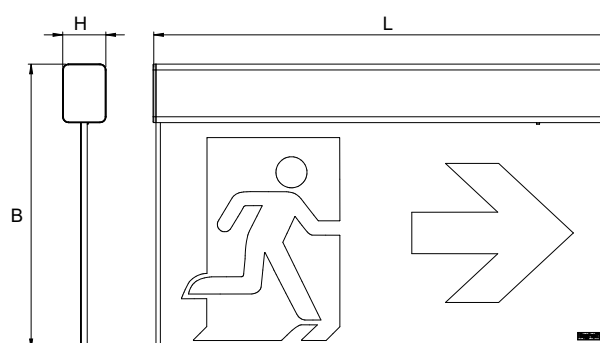
Optics high-efficiency back light system

Light source LED

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
-	SHIELDS RIGHT, LEFT, DOWN
-	UNIVERSAL CLAMP

Titanium Battery



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

Titanium recharging time (max)

2 W	45 min
3 W	90 min

Accessories

to be ordered separately

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

System Modules

to be ordered separately

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

**MODULO
DALI**

**MODULO
LG**

**MODULO
LGFM**

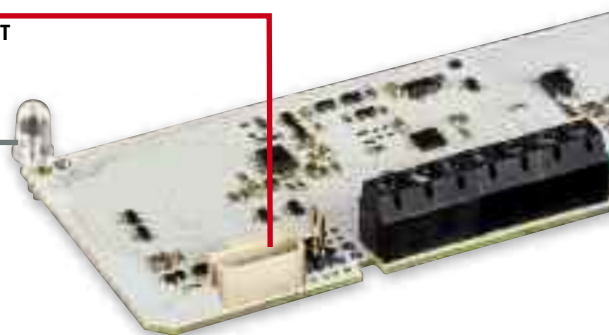
SYSTEM MODULES THAT CAN BE INDIVIDUALLY CONNECTED TO THE DEVICE CIRCUIT



INTELLIGENT PHOTSENSOR SUPPLIED

opticom
TECHNOLOGY

Smartphone interface
Programming, interrogation and control system



Visibility distance
VD 20 meters



Visibility distance
VD 30 meters

The right visibility for every space

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

CEILING MOUNTING



- UNIVERSAL BRACKET

supplied

WALL INSTALLATION



- UNIVERSAL BRACKET

supplied

THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately

AT



opticom
TECHNOLOGY

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

LG

with System Module integration - order code 15036

LGFM

with System Module integration - order code 15037

DALI

with System Module - Order code 15038

UP-LED
EXIT



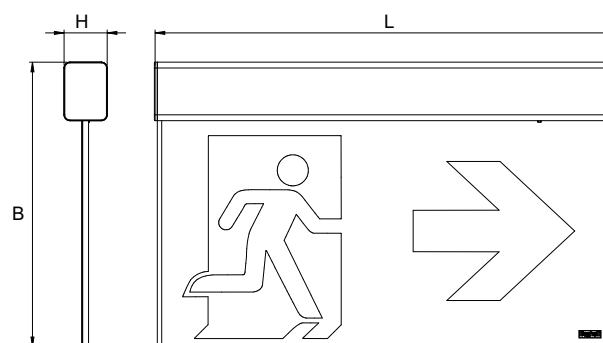
GENERAL CHARACTERISTICS

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

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
-	SHIELDS 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 STEMS L250
4316	ACCESSORY SUSPENSION WITH STEMS L500
4317	ACCESSORY SUSPENSION WITH STEMS L1000
14771	ACCESSORY SUSPENSION WITH CABLES
19045	WALL SUSPENDED BRACKET (ONLY FOR 60M MODEL)
4319	THREE-PHASE BINARY KIT

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).



LED green light:
FULLY-FUNCTIONING DEVICE



LED red light:
BATTERY MALFUNCTIONING



20m model



30m model



60m model

CEILING MOUNTING



WALL MOUNTING



Universal concealed connection system:

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

WALL MOUNTING



- UNIVERSAL BRACKET (20/30m model)

supplied

CEILING MOUNTING



- UNIVERSAL BRACKET (20/30m model)

supplied

WALL MOUNTING



- UNIVERSAL BRACKET (20/30m model)

supplied

19045 UNIVERSAL BRACKET (60m model)

to be ordered separately

THREE-PHASE BINARY MOUNTING



4319 THREE-PHASE BINARY KIT

to be ordered separately

TR

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



UP•LED EXIT LITE

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



UP•LED MULTI

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





Indica LED 20

Design and sturdiness for
Unprecedented uniformity
multiple applications

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

Indica LED 20m

LED Signs



GENERAL CHARACTERISTICS

Power 1-2,1 W

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

Operation HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM

Standard EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, DIN 4844-1

Protection grade IP40 single-sided version, IP41 suspended version

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

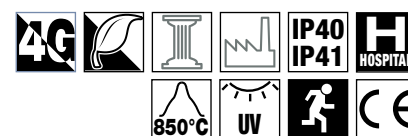
Working temp. 0°C $\div$ +40°C

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

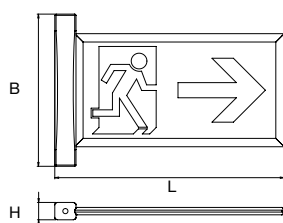
Housing Aluminium frame and bracket in Polycarbonate RAL 7035

Optics high-efficiency back light system

Light source LED

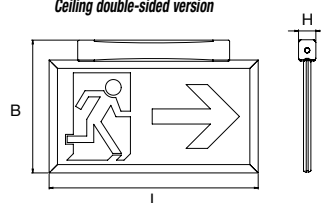


Wall double-sided version



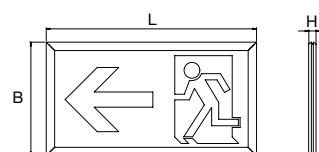
DV	L	B	H
20	266	252	36

Ceiling double-sided version



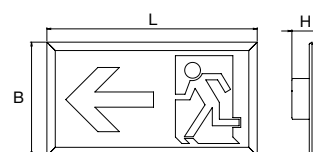
DV	L	B	H
20	235	166	36

Recessed single-sided version



DV	L	B	H
20	235	135	15

Wall single-sided version



DV	L	B	H
20	235	135	38

Accessories

supplied

Order code	Description
-	DIFFUSER RIGHT/LEFT/DOWN

Accessories

to be ordered separately

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

WALL MOUNTING



MOUNTING ON CEILING



SUSPENDED CANTILEVERED MOUNTING



19383 WIRE SUSPENSION MAX 100

to be ordered separately

RECESSED MOUNTING INTO SUSPENDED CEILING



Recess hole: 297x43 mm

19384 RECESS BRACKET FOR SUSPENDED CEILING 20 m

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

Double-sided version IP41

AT Autotest

W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack
2,1	19303	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	19305	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	19307	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	17461	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	17495	INDICA LED DF20M SLGS 24V	-	-	-	32	3	0,52	6

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

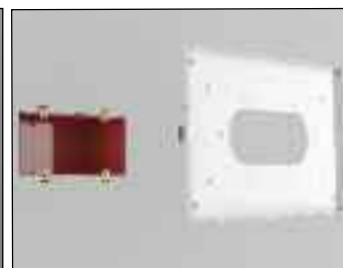
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack
2,1	19301	INDICA LED DF20M HT	-	-	-	32	3	0,52	6

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

WALL MOUNTING



RECESSED WALL MOUNTING ON BOX 506



- ADAPTER FOR BOXES 506

supplied

Single-side version IP40

AT Autotest

W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack
1	19313	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	19315	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	19317	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	17463	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	17497	INDICA LED SF20M SLGS 24V	-	-	-	16	2	0,65	6

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

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

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

QUICK CONNECTION BRACKET FOR MAXIMUM MOUNTING VERSATILITY

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

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



Bracket position for mounting on the ceiling



Bracket position for suspended
mounting on the left



Bracket position for suspended mounting
on the right



GENERAL CHARACTERISTICS

Power 1,6-3,2 W

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

Operation HT, Permanent (SA)/Public performance (PS) selectable with DIP switch in versions LG and LGFM

Standard EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, DIN 4844-1

Protection grade IP40 single-sided version, IP41 suspended version

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

Working temp. 0°C ÷ +40°C

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

Housing Aluminium frame and Polycarbonate bracket RAL 7035

Optics high-efficiency back light system

Light source LED

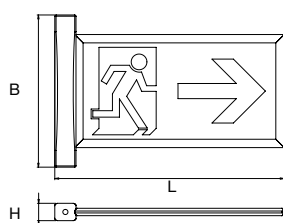
Indica LED 30m

LED Signs

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

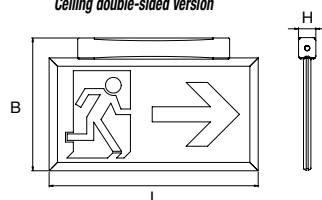


Wall double-sided version



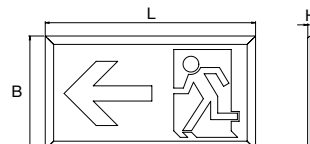
DV	L	B	H
30	366	252	36

Ceiling double-sided version



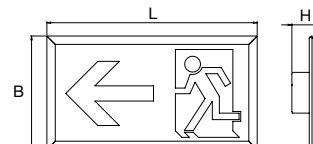
DV	L	B	H
30	335	216	36

Recessed single-sided version



DV	L	B	H
30	335	185	15

Wall single-sided version



DV	L	B	H
30	335	185	38

Accessories

supplied

Order code	Description
-	DIFFUSER R/L/DOWN

Accessories

to be ordered separately

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

SUSPENDED WALL MOUNTING



SUSPENDED MOUNTING ON CEILING



SUSPENDED SUSPENDED MOUNTING



19383 WIRE SUSPENSION max 100 *to be ordered separately*

SUSPENDED MOUNTING ON CEILING WITH RODS



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

19381 RODS 500MM INDICA DF

19382 RODS 1000MM INDICA DF

RECESSED SUSPENDED MOUNTING ON SUSPENDED CEILING



Recess hole : 367x43 mm

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

Double-sided version IP41 □

AT										Autotest
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack	
3,2	19302	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	19304	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	19306	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	17460	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	17494	INDICA LED DF30M SLGS 24V	-	-	-	48	3,7	0,8	6	

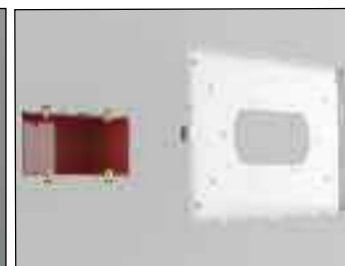
HT										Mains voltage power supply (ca 230V 50 Hz - cc 216V)
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack	
3,2	19300	INDICA LED DF30M HT	-	-	-	48	3,7	0,8	6	

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

WALL MOUNTING



RECESSED WALL MOUNTING ON BOX 506



- ADAPTER FOR BOXES 506

supplied

Single-sided version IP40

AT										Autotest
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack	
1,6	19312	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	19314	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	19316	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	17462	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	17496	INDICA LED SF30M SLGS 24V	-	-	-	24	2,5	1,1	6	

HT										Mains voltage power supply (ca 230V 50 Hz - cc 216V)
W	Order code	Description	Model	Autonomy	Battery	N° LED	Absorption W	Weight kg	Pack	
1,6	19310	INDICA LED SF30M HT	-	-	-	24	2,5	1,1	6	

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

QUICK CONNECTION BRACKET FOR MAXIMUM MOUNTING VERSATILITY

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

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



Bracket position for mounting
on the ceiling

Bracket position for suspended
mounting on the left



Bracket position for suspended mounting
on the right







Plexilite LED

Totally recessed
Hi-Tech Design
body

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



GENERAL CHARACTERISTICS

Power* 8 W

Power supply 230Vac ± 10% 50Hz

Operation Permanent (SA), Non permanent (SE)
Rest Mode (RM)

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

Protection grade IP40

Autonomy 1h, 3h

Working temp. 0°C ÷ +40°C

Mounting recessed on suspended ceiling

Housing steel sheet

Louvre high transparencytempered glass

Optics high-efficiency back light system

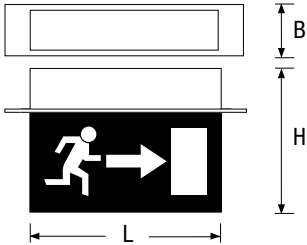
Light source LED

* Indicative power for comparison with fluorescent tube fixtures

PlexiLite LED

LED Signs

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



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

Order code	Description	Order code	Description	supplied
-	SUSPENDE CEILING FIXING BRACKET	12083	DIFFUSER 535 RIGHT LEFT	
12082	DIFFUSER 535 DOWN			

SUSPENDED CEILING MOUNTING



recess hole: 353x70 mm

- SUSPENDED CEILING BRACKET supplied

LG

Logica

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

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

LGFM

Logica FM

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

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

SLG

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

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

HT

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

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

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



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





Maxima LED

When visibility distance
The simplicity of strength
is paramount



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



GENERAL CHARACTERISTICS

Power 2 W

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

Operation Permanent (SA), Non permanent (SE), HT

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

Protection grade IP54

Autonomy 1h, 3h

Working temp. 0°C $\div$ +40°C

Mounting wall, suspension, electric rail,
suspended

Housing white Polycarbonate

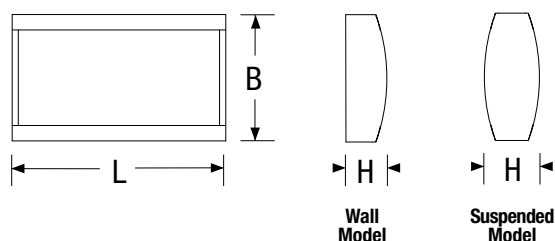
Louvre Transparent Polycarbonate

Light source LED

Maxima LED

LED Signs

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



Power 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	ADES 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-sided model

LG Logica

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

SLG

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

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

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

Single-sided model

LG Logica

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

SLG

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

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

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



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





Autotest System:

Lamp control
with multicolor LED

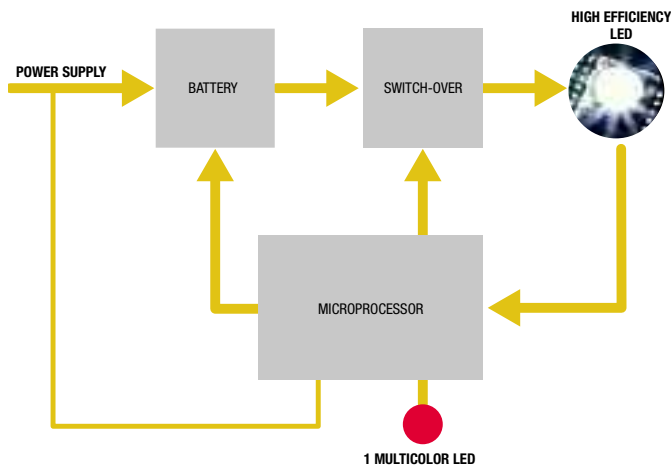
with the Opticom solution it complies to
Regulation UNI11222



"Inibit" remote control

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

AT - AutoTest: the recessed control system



The AT system provides the selfdiagnostics of the luminaire following workplace standards.

The selfdiagnostics feature includes autonomy test and lamp function and is performed every 26 weeks. Every 28 days it also performs an operation test of the lamp, the battery and the circuit. The result of the tests are shown by the multicolour LED positioned in front of the luminaire.

The Autotest system guarantees perfect control of the luminaire's performance and provides savings in labor costs.

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

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

to less than one Watt.

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

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

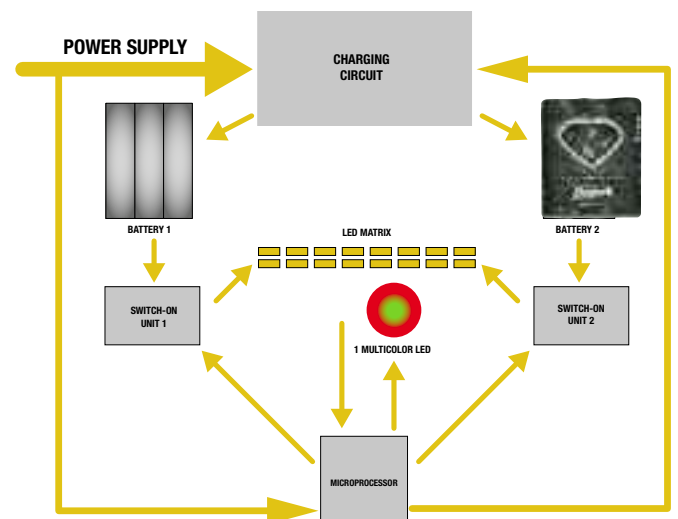
The AR luminaires perform periodic self diagnostic tests related to operation and autonomy, as required by UNI11222.

The selfdiagnostics feature includes autonomy test and lamp function and is performed every 26 weeks. Every 28 days it also performs an operation test of the lamp, the battery and the circuit. The result of the tests are shown by the multicolour LED positioned in front of the luminaire.

The Autotest system guarantees perfect control of the luminaire's performance and provides savings in labor costs.

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

To perform the tests the AutoRipara system simulates the absence of power and checks that the fixtures are working correctly. The operation test checks all the lamp functions in the space of 1 minute and is held monthly. The autonomy test includes checking of all the lamp functions in a space of time equal to the autonomy required by the individual standards and it is carried out every 26 weeks. The result of the tests is shown by the multicolour LED on the fixtures. This always guarantees perfect control of operation and allows an economic saving on the costs of personnel who otherwise would be assigned to maintenance. AutoRipara fixtures can be installed in existing emergency lighting systems without requiring the laying of further wiring.

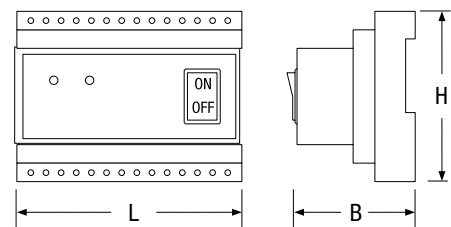


AUTORIPARA EXTRA BATTERY

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



INIBIT remote control



• Dimensions (mm) •		
L	B	H
150	70	90

AT RM

Autotest - Rest Mode

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



Sistema LG:

The centralised system for Principle self-powered devices optimisation



Logica Central Unit

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



Supervision Control Unit

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



Logica remote Control

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



GSM Interface

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



LON Interface

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



USB/RS485 Converter

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



Ethernet/RS485 Converter

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



RS232/RS485 Converter

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



DALI On/Off/Dimmer circuit board

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



Actuator Module

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



DALI Photosensor

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



Logica DIN Printer

Printer for DIN rail with RS485 connection to Logica control unit



Logica Visual Software

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

LG - Logica: the multifunctional centralized system

AUTOMATES THE PROCEDURES LISTED BY STANDARD UNI 11222

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



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

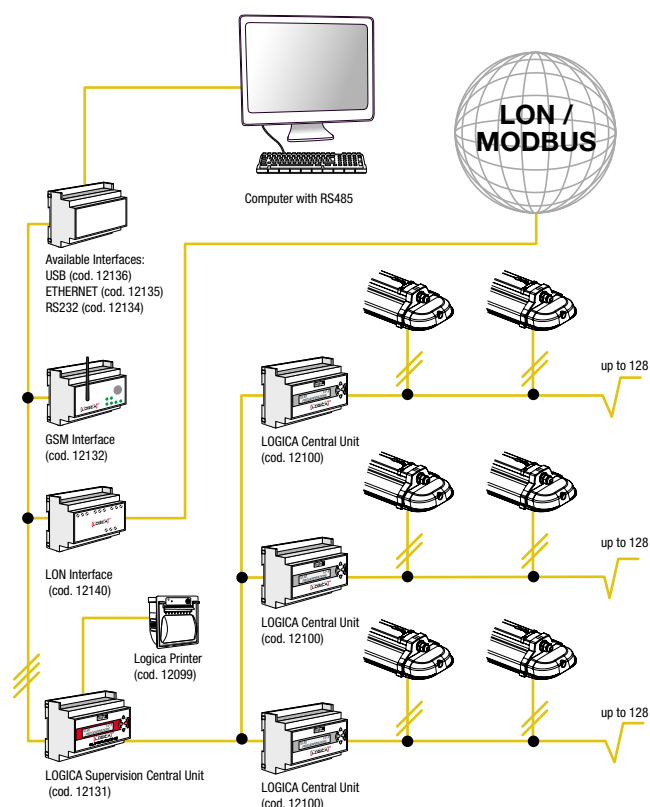
CENTRALIZED LOGICA SYSTEM VIA BUS THROUGH THE LOGICA SUPERVISION UNIT (up to 4096 fixtures)

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

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

LOGICA CT SYSTEM BY BUS (up to 128 fixtures)

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





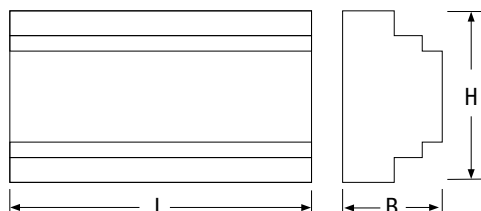
Logica Central Unit

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

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

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

Can be interfaced with MODBUS systems (RTU).



• Dimensions (mm) •		
L	B	H
160	75	90



LG

Logica

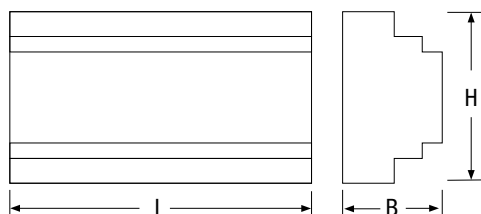
Order code	Description	Autonomy	Battery	Weight kg	Pack
12100	LOGICA CENTRAL UNIT	1h	NiCd 7.2V 0.75Ah	0.6	1



Supervision control unit

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

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



• Dimensions (mm) •		
L	B	H
160	75	90



LG

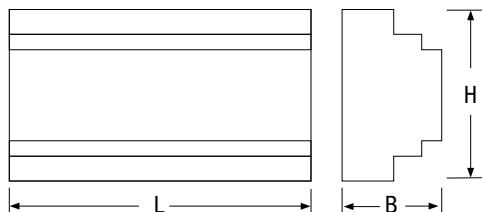
Logica

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



Logica remote control

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



• Dimensions (mm) •		
L	B	H
160	75	90



LG

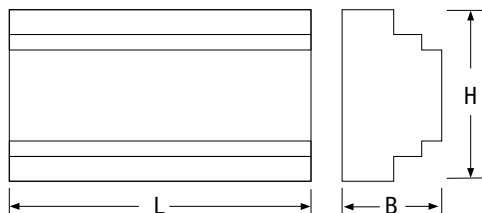
Logica

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



GSM Interface

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



• Dimensions (mm) •		
L	B	H
160	75	90



LG

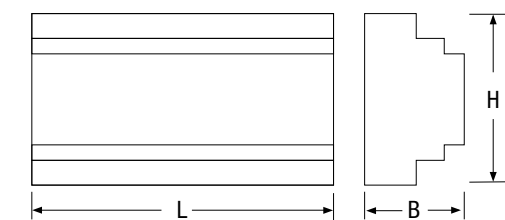
Logica

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



LON interface

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



• Dimensions (mm) •		
L	B	H
105	75	90



LG

Logica

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



USB/RS485 Converter

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

• Dimensions (mm) •		
L	B	H
150	75	26



LG

Logica

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



Ethernet/RS485 Converter

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

• Dimensions (mm) •		
L	B	H
87	56	30



LG

Logica

Order code	Description	Weight kg	Pack
12135	RS485 ETHERNET CONVERTER	0.5	1
12146	MODBUS RTU - MODBUS TCP CONVERTER	0.2	1



RS232/RS485 Converter

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

• Dimensions (mm) •		
L	B	H
150	75	26



LG

Logica

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



Dali On/Off/Dimmer circuit board

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

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



LG			Logica
Order code	Description	Pack	
12138	DALI ON/OFF/DIMMER CIRCUIT BOARD	1	



Actuator module

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

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



LG			Logica
Order code	Description	Weight kg	Pack
12142	ACTUATOR MODULE	-	1



DALI Photosensor

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

LG

Logica

Order code	Description	Weight kg	Pack
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

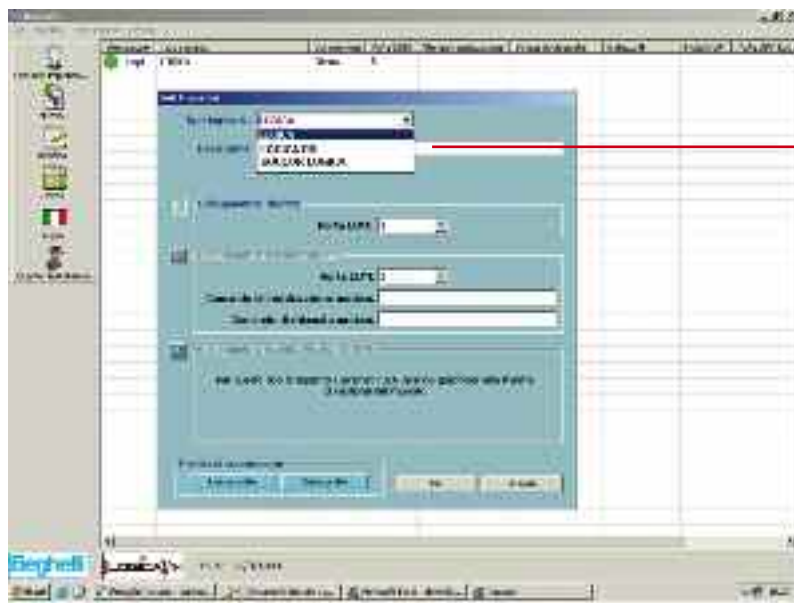
Logica

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



LOGICA VISUAL Software

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



LOGICA VISUAL software can manage

LG
LGFM
fixtures

SLG

SoccorLogica

Order code	Description	Weight	Pack
12139	LOGICA VISUAL SOFTWARE	1.0	1



LGFM System:

Wireless for simple,
safe installation

Radio protocol derived from military systems



Logica Central Unit

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



GSM Interface

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



LON Interface

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



Convertitore USB/RS485

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



Convertitore Ethernet-RS232/RS485

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



Logica FM Radio Circuit

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



Logica DIN Printer

Printer for DIN rail with RS485 connection to Logica control unit



Logica Visual Software

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

LGFM - Logica FM: the centralized system by radio

LOGICA CT SYSTEM BY RADIO (UP TO 500 FIXTURES)

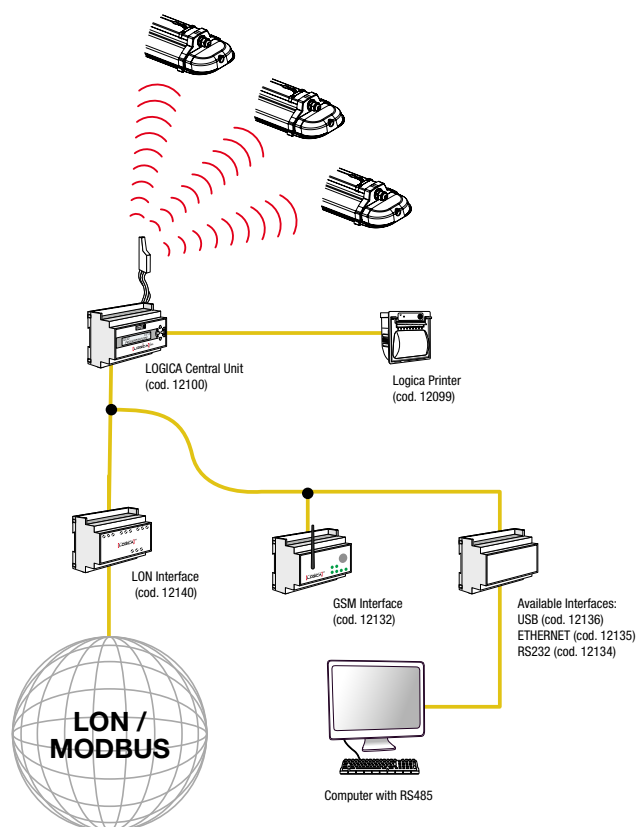
Central Unit manages up to 500 radio fixtures, ranging from lamps for lighting and emergency applications to domotics devices.

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

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

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

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



COMPATIBILITY WITH DOMOTICS CONTROL UNIT FOR LIGHTING

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

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



Logica FM Control Unit

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

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



• Dimensions (mm) •		
L	B	H
160	75	90

LGFM

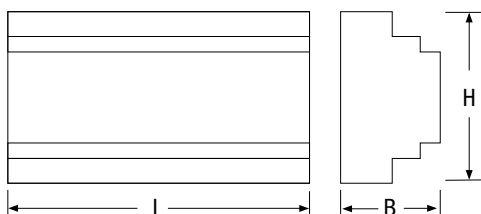
Logica FM

Order code	Description	Autonomy	Battery	Weight kg	Pack
12128	LOGICA FM CENTRAL UNIT	1h	NiCd 7.2V 0.75Ah	0,8	1



GSM Interface

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



• Dimensions (mm) •		
L	B	H
160	75	90

LGFM

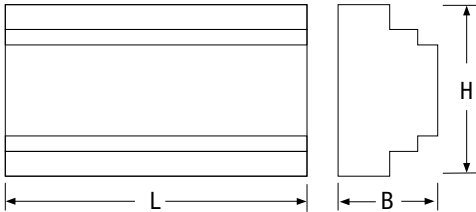
Logica FM

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



LON Interface

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



• Dimensions (mm) •		
L	B	H
105	75	90



LGFM

Logica FM

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



USB/RS485 Converter

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

• Dimensions (mm) •		
L	B	H
150	75	26



LGFM

Logica FM

Order code	Description	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



LGFM

Logica FM

Order code	Description	Weight kg	Pack
12135	RS485 ETHERNET CONVERTER	0.5	1
12146	MODBUS RTU - MODBUS TCP CONVERTERS	0.2	1



RS232/RS485 Converter

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

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



LGFM

Logica FM

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



Logica FM radio circuit

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



	• Dimensions (mm) •		
	L	B	H
	80	12	19

LGFM

Logica FM

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



Logica DIN Printer

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

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



LGFM

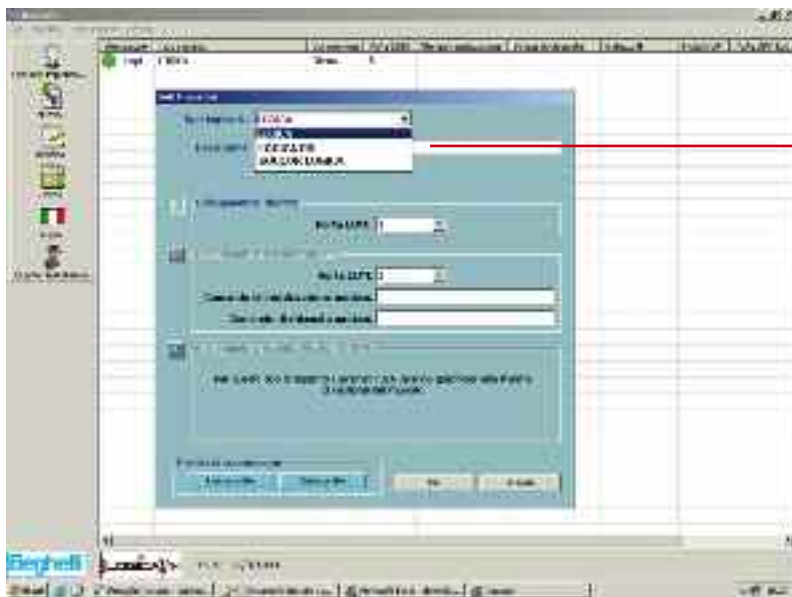
Logica FM

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



LOGICA VISUAL software can manage

LG
LGFM

fixtures

LGFM

Logica FM

Order code	Description	Weight	Pack
12139	LOGICA VISUAL SOFTWARE	1.0	1

General terms of sale

1. ORDERS - COMPLETION OF AGREEMENTS

Product purchase orders must be provided in writing. The placing of an order is final. All collaboration schemes, orders, commissions and agreements are considered to be completed when verbal or written confirmation is received from the Seller or once the billing and/or delivery of the ordered products has taken place.

2. CHANGES AND VARIATIONS

Once the order has been completed, any charge 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

12.1 PROTECTION AND SAVING CLAUSE - DISPUTES AND GOVERNING LAW
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 at the following link, or can be requested from :

Beghelli S.p.A. Sales Management - Via Mozzeghine, 13/15 Loc. Montevoglio - 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

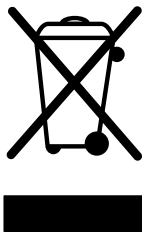
The manufacturer (to be understood in the broadest sense, essentially entailing companies affixing their brand to a given good or goods, and all those importing from third countries) is responsible for the costs relating to the end-of-life disposal of their products.

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-bin symbol, as mentioned alongside here.



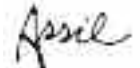
ECOLIGHT



Dealer
iMQ brand



Associated:



Partner **DIALux**













