

emergency  
**REVERSOS**  
novelties  
nineteen

**Beghelli**



emergency  
professional  
novelties  
nineteen

**Beghelli**

## Luminaires

 <p><b>IP65</b> AT/CT LG 10 YEAR WARRANTY LG 24/230 HT</p> <p><b>INFINITA LED RTI</b> pag. 12</p>	 <p><b>IP65</b> AT/CT LG 10 YEAR WARRANTY LG 24/230 HT</p> <p><b>INFINITA LED X5</b> pag. 16</p>	 <p><b>IP65</b> LG 10 YEAR WARRANTY LG 24/230 HT</p> <p><b>LOGICA LED ULTIMATE</b> pag. 22</p>	 <p><b>IP65</b> LG 10 YEAR WARRANTY LG 24/230 HT</p> <p><b>METRICA LED ULTIMATE</b> pag. 24</p>
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### Standard

#### TR

SELF-POWERED LUMINAIRES  
STANDARD  
OR WITH LOCAL DIAGNOSTICS  
BATTERY CONTROL SYSTEM

### Autotest

#### AT

SELF-POWERED AUTOTEST  
LUMINAIRES AND AUTORIPARA  
(SELF-REPAIR) SYSTEM

### Centraltest

#### AT/CT CABLECOM

SELF-POWERED AT LUMINAIRES  
WITH CENTRALISED DIAGNOSTIC  
SYSTEM AND 2 POWER  
CABLES WITH BUILT-IN BUS

**10 YEAR WARRANTY**

Control units page 20

#### AT/CT opticom TECHNOLOGY

AT/CT  
LUMINAIRE-SMARTPHONE  
OPTICAL COMMUNICATION SYSTEM  
PARAMETER MANAGEMENT AND CONTROL VIA A  
DEDICATED APP.  
LG, LGFM AND DALI EXPANSION MODULES FOR  
OPTICOM AT LUMINAIRES EQUIPPED WITH LONG-  
LIFE TITANIUM BATTERIES

**10 YEAR WARRANTY**

Control system and devices available  
on the back of the general catalogue

## Emergency conversion kits



IP20 IP65

AT LG

INVERTER LED

pag. 36



IP20 IP65

AT LG

10 YEAR WARRANTY

INVERTER LED EXTREME

pag. 38

## Control Units



AT/CT

CABLECOM CONTROL UNIT

pag. 20



WIFI

AT/CT

CABLECOM CONNECT CONTROL UNIT

pag. 21

### LG /LGFM

LG /LGFM  
SELF-POWERED  
AT AUTOTEST LUMINAIRES WITH  
CENTRALISED CONTROL AND  
DIAGNOSTIC SYSTEM  
WIRED (LG)  
OR REMOTE CONTROLLED (LGFM)

Control system and devices available  
on the back of the general catalogue

### LG 24/230V

LG 24/230V  
LUMINAIRES POWERED  
BY CENTRALISED BATTERIES  
24V (LOGICA 24)  
OR 230V (LOGICA 230)

Control system and devices available  
in the Logica 24/230 catalogue

### HT 230

HT 230  
LUMINAIRES POWERED  
BY THE MAINS,  
BY RELAYS AND BY THE  
LOGICA 230 AND  
LOGICA 230 LITE SYSTEMS

# CABLECOM Beghelli

The new Smart Diagnostic System - CentralTest.  
Simple, safe, revolutionary

## 10-year warranty with Titanium battery

The new Beghelli Titanium battery differs from normal storage cells by its built-in charge control and balancing system (BMS).

1 - Fast charging:

Ultimate luminaires charge to 80% in 3 hours of charging

2 - Extreme temperatures:

the Lithium-Titanium technology is tested for temperatures between  $-30^{\circ}\text{C}$  and  $+75^{\circ}\text{C}$ ; installed on the luminaires, it ensures the correct operation of the same at ambient temperatures from  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ .

3 - Long life with built-in BMS circuit:

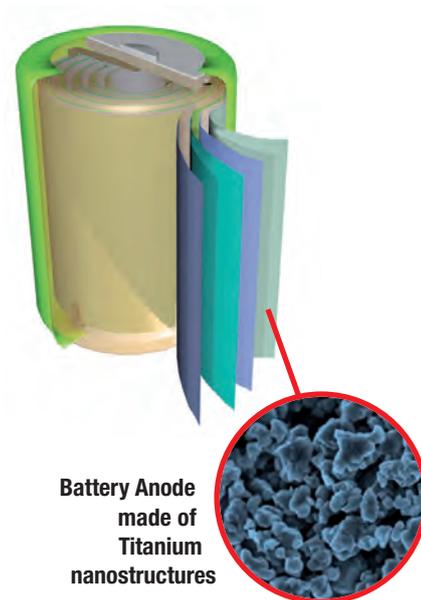
7,000 charge cycles, thanks to the electronic balancing and charging/discharging phase control with short-circuit protection (Battery Management System).

4 - Cell safety guaranteed under any stress:

The materials used in the Lithium Titanium cells do not react in the presence of a short circuit, humidity or other accidental events.

I materiali impiegati per le celle Lito Titanio non reagiscono in caso di cortocircuito, umidità o altri eventi accidentali.

**10 YEAR WARRANTY**



## Open Settings: using the App or with a simple screwdriver

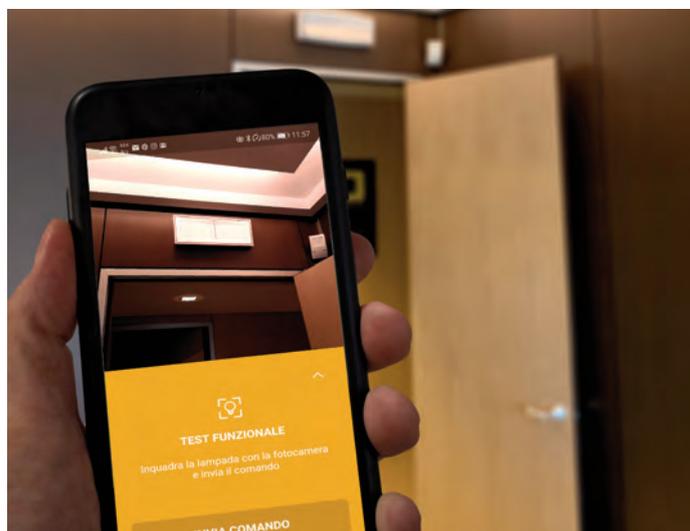
Open Settings: using the App or with a simple screwdriver

No constraints: Infinita LED can be installed in the CentralTest mode in conjunction with the Cablecom Control Unit, which exponentially increases the possibilities of parameter and test management and control. When installing the luminaire without the Control Unit, it shall be set to the Autotest mode that allows adjusting its Autonomy from 1 to 3h using a circuit jumper or the latest CableCom Connect APP that also provides additional features. Turn your smartphone into an actual remote control and set all the lamp parameters: Autonomy from 1 to 8h, SE or SA Operation, RestMode, launch Autonomy or functional Tests or disable the emergency mode (Inhibit).

The system uses the flash of any mobile phone to communicate the data to be set to the luminaire. The APP is also designed to detect the QR codes used to uniquely identify each luminaire. This option allows keeping records of the luminaires installed, a useful feature for the filling in of the System LogBook required by standard UNI 11222. The same operations can be centralised and organised in a simple and intuitive manner by connecting the system to a CableCom or CableCom Connect Control Unit.



Manual programming



Programming via remote control  
(Smartphone+App)

# The simplicity of CABLECOM smart control

## The first BUS control system without BUS cables

Revolutionary control system able to communicate with the luminaires by means of a BUS system that uses the emergency electrical system for data transmission. The connection between the CableCom Control Unit and the luminaires is made by automatically switching the two power cables into communication BUSES in such a way as to avoid any possibility of interference between the transmission of data and the passage of current. The Control Unit can be used to set all lamp parameters (Autonomy, Operation, Functional and Autonomy test start) on all the luminaires at the same time and receive malfunction warnings after the

Emergency status test.

In the Connect version of the Control Unit, the App can be used to obtain setting and error log reports on all the luminaires available in the system. It can also be used to automatically create a LogBook file to be attached to the safety documentation required by Standard UNI 11222.

## Performance flexibility for multiple functions

The same luminaire can be integrated progressively with the App and the Control Unit



	AUTOTEST		CENTRALTEST	
	Luminaire	Luminaire + App	Luminaire + Control unit	Luminaire + App + Connect Control unit
<b>Infinity Mode</b>	✗	✓	✓	✓
<b>Automatic periodic test</b>	✓	✓	✓	✓
<b>Adjustable Autonomy</b>	1h / 3h	1/1,5/2/3/8h	1/1,5/2/3/8h	1/1,5/2/3/8h
<b>Functional TEST start</b>	✗	✓	✓	✓
<b>Autonomy TEST start</b>	✗	✓	✓	✓
<b>TEST Synchronisation</b>	✗	✓	✓	✓
<b>TEST Scheduling</b>	✗	✗	✗	✓
<b>Rest Mode</b>	✗	✓	✓	✓
<b>Even/Odd Setting</b>	✗	✓	✗	✓
<b>Centralised error notification</b>	✗	✗	✓	✓
<b>System data report</b>	✗	✗	✗	✓
<b>System log (Log Book)</b>	✗	✗	✗	✓

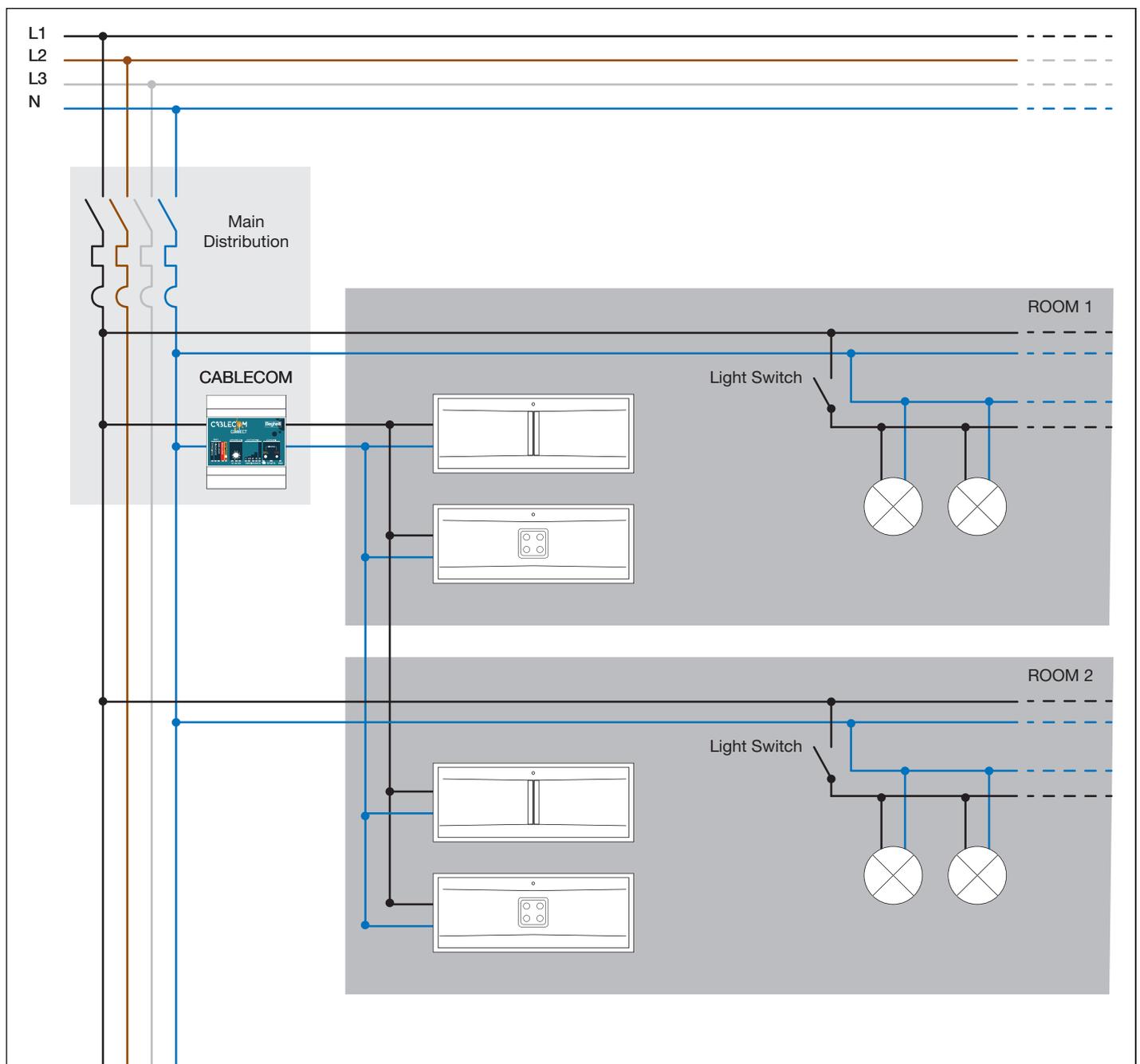
# CABLECOM Beghelli

The CentralTest with the best quality-price ratio ever

The system diagram clearly shows the simplicity of the CableCom system. The power cord for normal lighting is the same on which the control unit transmits data for the control of the Infinita LED emergency luminaires.

The Control Unit can be used to run different types of diagnostics, change the emergency luminaire settings and, for

CableCom Connect Control Unit, also generate reports on all the system data and automatic test Log Books, as required by Standard UNI 11222.

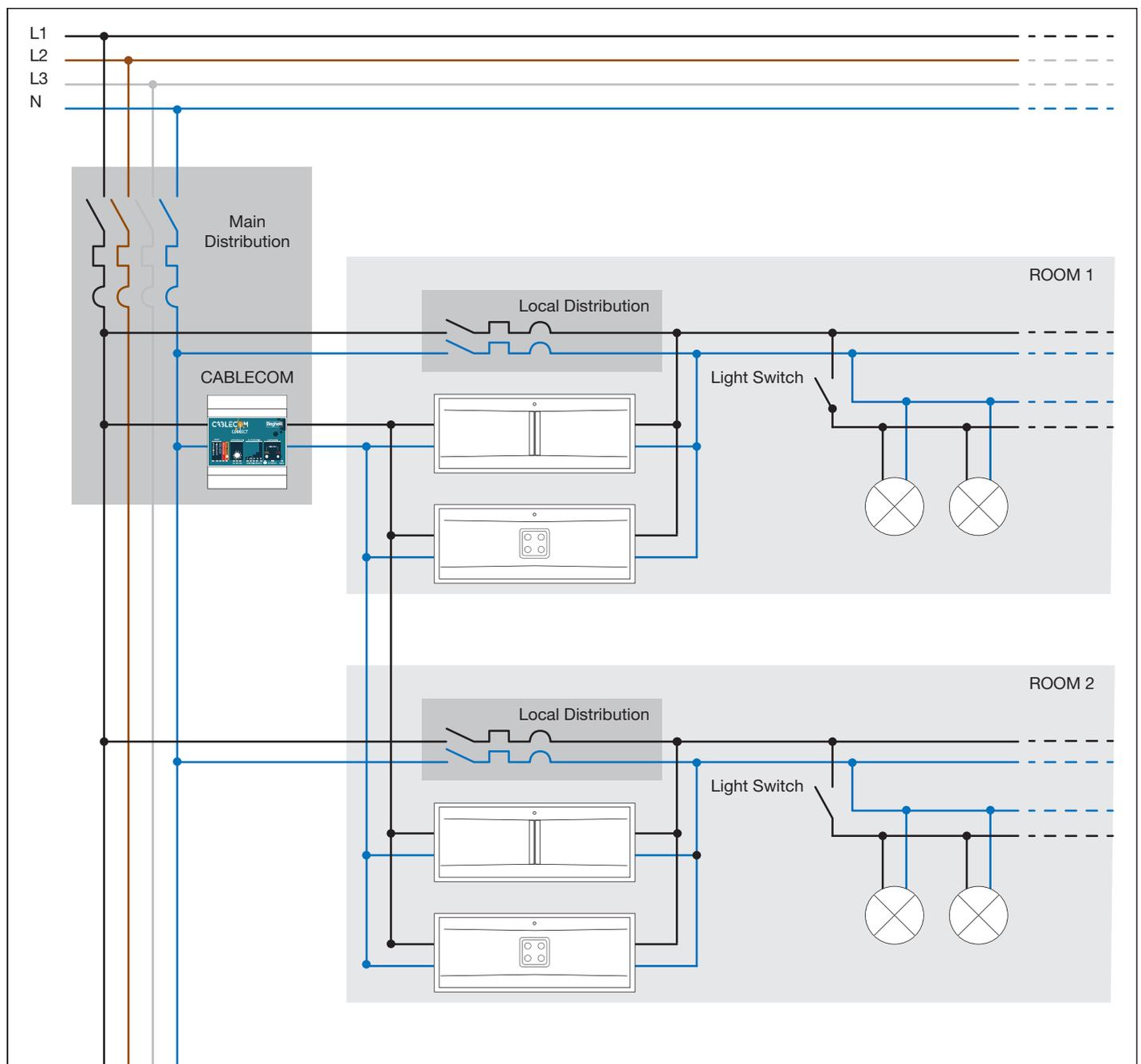


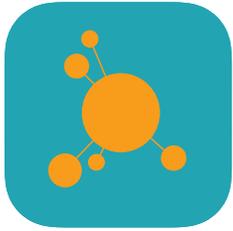
# Infinity Mode

The CableCom function that never leaves you in the dark

The Infinity Mode function can be activated on all Infinita LED CableCom luminaires on both AT (via Beghelli Cablecom App) and CT versions, by enabling the mode from the control panel of the CableCom or CableCom Connect Control Unit. Thanks to the CableCom communication BUS, which allows using the power supply cables for data transmission, in the event of a local blackout, the fault

detected via the Infinity input activates the emergency operation. Once the nominal Autonomy ends, the **CableCom Bus will provide the energy necessary to keep the luminaire on for an unlimited amount of time** (with reduced luminous flux and provided that the CableCom BUS line is powered).





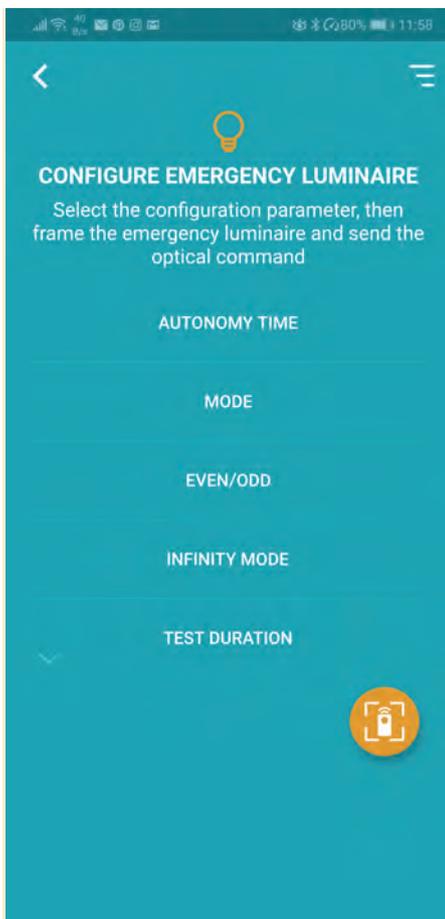
**Cablecom**

# App CableCom Connect

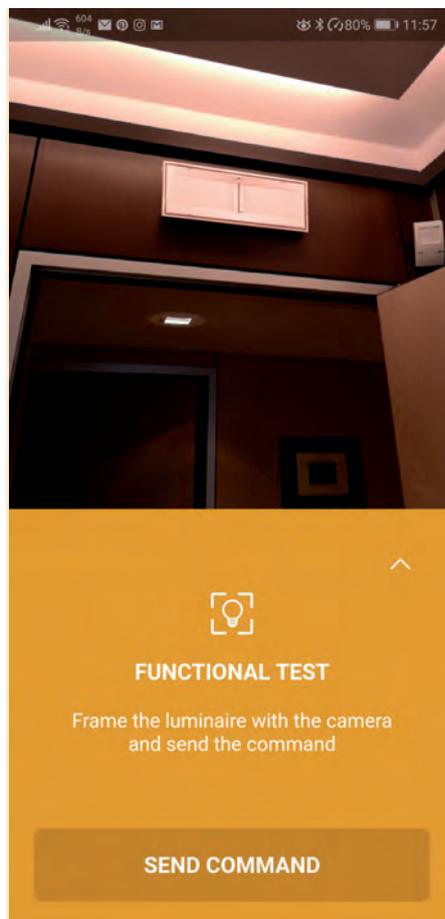
The simple and intuitive app that turns your smartphone into an emergency remote control...

With Beghelli CableCom you can interact directly with each individual emergency lamp by one-way optical communication. You will, therefore, be able to modify the configuration parameters of each individual luminaire, start diagnostic tests and run other advanced functions.

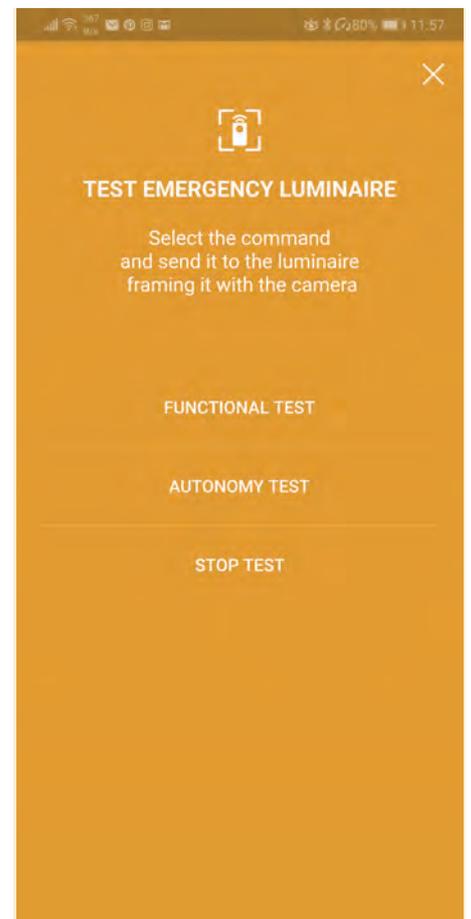
App in AutoTest mode,  
used as a lamp remote control



List of configuration parameters to be sent to the emergency lamp by optical control



Emergency lamp framed to start a functional test



List of test types (functional or Autonomy) to be run on the emergency lamp

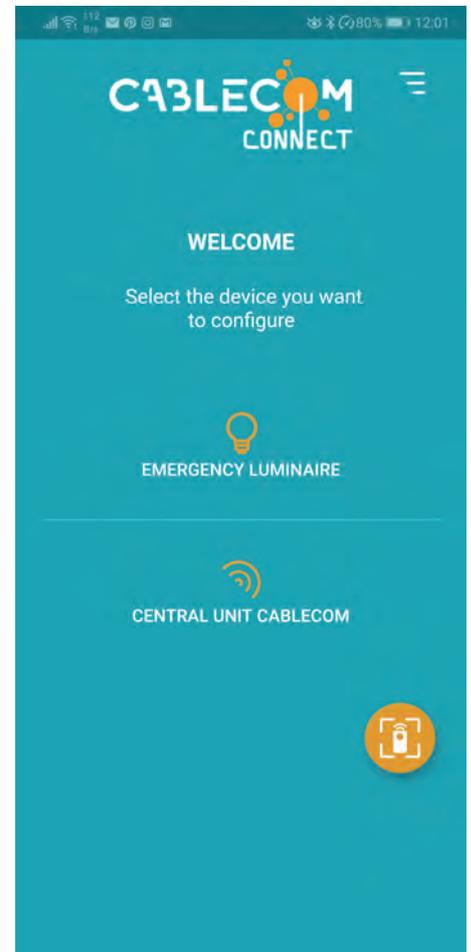
## ... and in an actual system diagnostic Control Unit

For full control of the “CableCom” centralised system, connect the App to the CableCom Connect Control Unit.

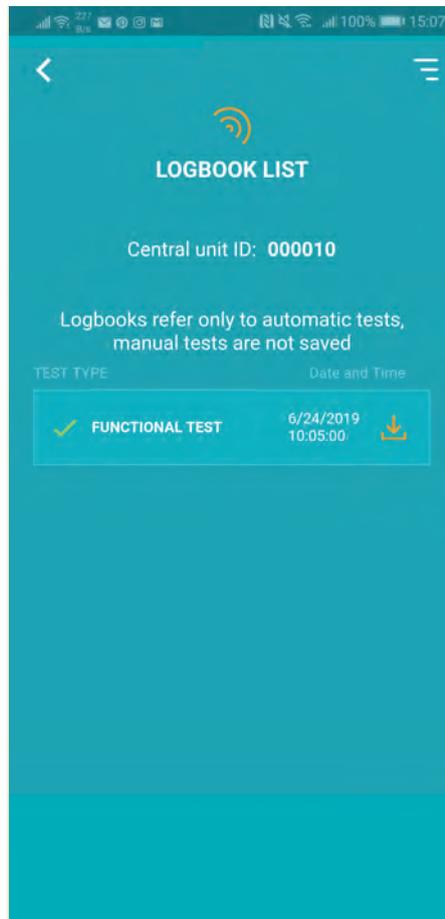
Use the WiFi technology of the Control Unit to configure the entire system automatically, run functional and Autonomy tests, modify the parameters of any luminaire and enable advanced features such as the innovative Infinity Mode function that provides infinite Autonomy.

The CableCom Connect App is the ideal tool for system maintenance: with a simple click you can download the periodic maintenance log in pdf format, ready for printing or storage.

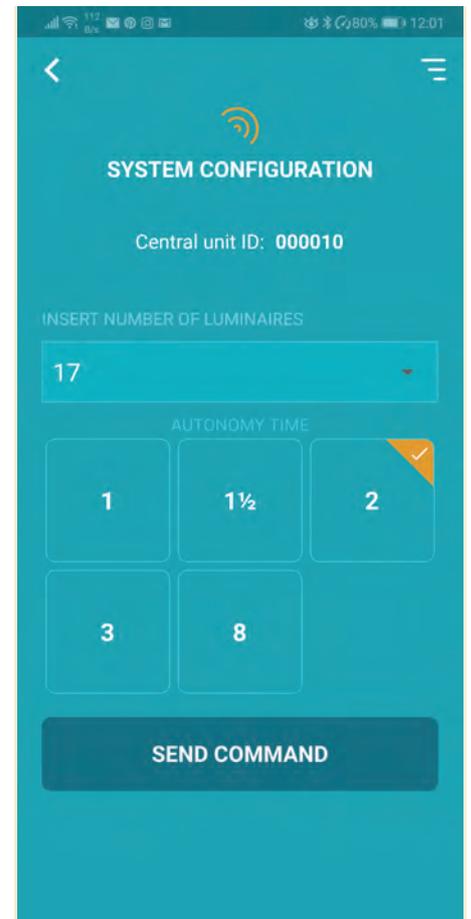
## App in CentralTest mode, connected to the CableCom Connect Control Unit



List of operations that can be performed on the system after connecting to the CableCom Connect Control Unit



List of the logbooks available on the Control Unit for download in pdf format



CableCom system configuration with the number of lamps to be purchased and the corresponding Autonomy options.

# ULTIMATE

10-year warranty on the entire Ultimate range

Luminous flux over 2.000lm

Smart Pack Titanium Battery,  
with built-in BMS circuit

Expandable AT-LG-LGFM-DALI electronics  
that can be reconfigured and updated remotely



Autoripara + Titanium:  
the safety of never being in the dark

The evolutionary advancement of LED sources made it possible for emergency luminaires to reach luminous fluxes and useful life unthinkable until a few years ago. Up until now, the critical point was the energy accumulator that must ensure maximum efficiency and long operating time in the event of a blackout. The battery, the only

source of power in the event of a blackout, determines the performance limit of the luminaire in terms of both reliability and charging time.

The ULTIMATE project eliminates this problem transforming it into a resounding plus: Titanium Dioxide storage elements enclosed in a Smart pack with built-in BMS

circuit (Battery Management System), driven by an electronics that makes it possible to double the smart pack of the luminaire while still guaranteeing the power supply in the event of an emergency, doubling the luminaire's performance.



Expandable AT-LG-LGFM-DALI electronics  
that can be reconfigured remotely

The electronic board installed as standard on all ULTIMATE luminaires was designed to ensure maximum flexibility in the programming and use of the luminaires.

The design includes a built-in Logic circuit (LG) intended to centralise the configuration and control functions and also features remote control and Dali Module slots. Therefore, the software can also be updated remotely.

Immediately after installation, the Ultimate luminaire will be set to AT. If there is a Logic Control Unit connected, the product switches automatically to the centralised version (LG).

# Emergency lighting guaranteed for 10 years



## Titanium Smart Pack: the reason behind the 10-year warranty

The new Beghelli Titanium battery differs from normal storage cells by its built-in charge control and balancing system (BMS).

### 1 - Fast charging:

Ultimate luminaires charge to 80% in 3 hours of charging

### 2 - Extreme temperatures:

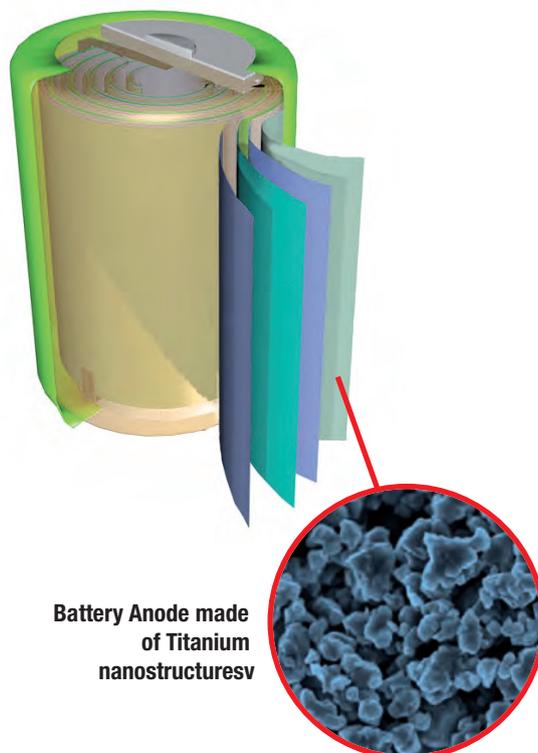
the LTO technology is tested for temperatures between  $-30^{\circ}\text{C}$  and  $+75^{\circ}\text{C}$ ; installed on the luminaires, it ensures the correct operation of the same at ambient temperatures from  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ .

### 3 - Long life with built-in BMS circuit:

7,000 charge cycles, thanks to the electronic balancing and charging/discharging phase control with short-circuit protection (Battery Management System).

### 4 - Cell safety guaranteed under any stress:

The materials used in the LTO cells do not react in the presence of a short circuit, humidity or other accidental events.



Battery Anode made of Titanium nanostructures

**10 YEAR WARRANTY**



## Additional Autoripara (Self-repair) battery: unprecedented luminous flux

Thanks to the Autoripara Battery System, by adding a second Titanium Smart Pack it is possible to enable the Long Operating Time function and double the Autonomy (up to 6h).

The luminaire can be set to High Flux using a jumper; the energy surplus is converted into luminous flux, reaching an extraordinary value of 2,000 lm.

The example on the right shows a Logica ULTIMATE luminaire (order code 19410) set to an operating time of 1 hour, highlighting the effects of changing the position of the jumper while the Autoripara battery is connected: double flux or, alternatively, double operating time.

**Long operating time**

**1h with one battery**



**1100 lm with one battery**

**2h with two batteries**



**2000 lm with two batteries**

**High Flux**

# Infinita LED RTI



## GENERAL CHARACTERISTICS

<b>Power**</b>	11, 24, 36W
<b>Power supply***</b>	230Vac ± 10% 50/60Hz
<b>Operation***</b>	Non-Maintained (SE), Maintained (SA), Public Entertainment (PS): Ultimate vers. only
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
<b>Protection grade</b>	IP65, IK08
<b>Autonomy:</b>	<b>CableCom vers.</b> 1h, 1,5h, 2h, 3h, 8h Infinity Function <b>Ultimate vers.</b> 1h, 1,5h, 3h With Autoripara Battery: 2h, 3h, 6h Overtime function
<b>Charging time:</b>	<b>CableCom vers.</b> L, GL: 24h - XL: 12h <b>Ultimate vers.</b> 6h 12h (with Autoripara battery)
<b>Working temp.***</b>	-20°C ÷ +50°C (Titanium Battery)
<b>Mounting</b>	wall mounting, ceiling suspended mounting, recessed mounting, false ceiling mounting, wall edge mounting, ceiling edge mounting, suspended mounting, suspended mounting with rods
<b>Body</b>	White polycarbonate RAL 9003
<b>Optics</b>	RTI= Total Internal Reflection anti-glare
<b>Diffuser</b>	Clear polycarbonate
<b>Light source</b>	LED - 4000K

\*\* Indicative power for comparison with fluorescent tube luminaires  
\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT)  
the parameters of which depend on the Control Unit used

Luminaire characterised by an optical RTI (Total Internal Reflection) anti-glare system and a high-efficiency LED battery. This innovative optical system provides not only very uniform lighting but also optimal performance in both wall and ceiling-mounted versions on emergency exit routes and in large areas, making it possible to increase the centre distance between the luminaires. The body is particularly rugged (IK08-IP65) and provided with several inlets both on its sides and at the back to ensure quick and optimal wiring under any installation conditions. The wide range of accessories makes it possible to solve any issues related to emergency lighting and safety signs. With the LTO (Lithium Titanate) battery you can obtain the technical framework of an absolute luminaire that has no limitations on use.

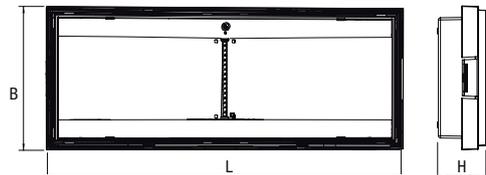
**Quality guaranteed for 10 years.**

## CABLECOM Version

As standard, it is an AT luminaire with 1h Autonomy but the jumper can be used to increase the Autonomy to 3h. The App or the CableCom Control Unit can be used to adjust all the parameters of the lamp.

## ULTIMATE version

Supplied in the centralised version (LG) configured automatically to the Autotest (AT) version unless connected to a control unit. The luminaire can be transformed from LG into LGFM or DALI with the use of just one accessory. The circuit also allows customising the luminaire according to the requirements of use by adjusting its Autonomy (1h/1,5h/3h); it is also possible to switch to the PS version, adjusting the light intensity as desired. The Autonomy can be **doubled and the luminous flux can be increased by adding the Autoripara Battery to the standard battery.**



Power** W	• Dimensions (mm) •			Distance of visibility (DV) Diffuser
	L	B	H	
11/24/36	325	130	45	25

## Accessories

included

Order code	Description
-	CABLE GLAND MEMBRANE M16 IP65
-	CABLE GLAND M20 WITH VENT
-	CONDUIT ADAPTER 16/20 WHITE
4682	INFINITA LED STICKERS LH, RH, BTM, UP (included for SA versions only)

## Accessories

to be ordered separately

Order code	Description
4681	INFINITA EDGE MOUNTING DIFFUSER 25M
4683	INFINITA LED RECESS BOX
4687	INFINITA PLASTERBOARD RECESSED MOUNTING BRACKET
4686	INFINITA EDGE MOUNTING FIXING BRACKET
4685	INFINITA LED 45° BRACKET
3912	PROTECTIVE GRILLE (440X215X99)
4315	SUSPENDED MOUNTING RODS 250MM
4316	SUSPENDED MOUNTING RODS 500MM
4317	SUSPENDED MOUNTING RODS 1000MM
3723	SUSPENDED MOUNTING HOOKS

## Accessories CableCom

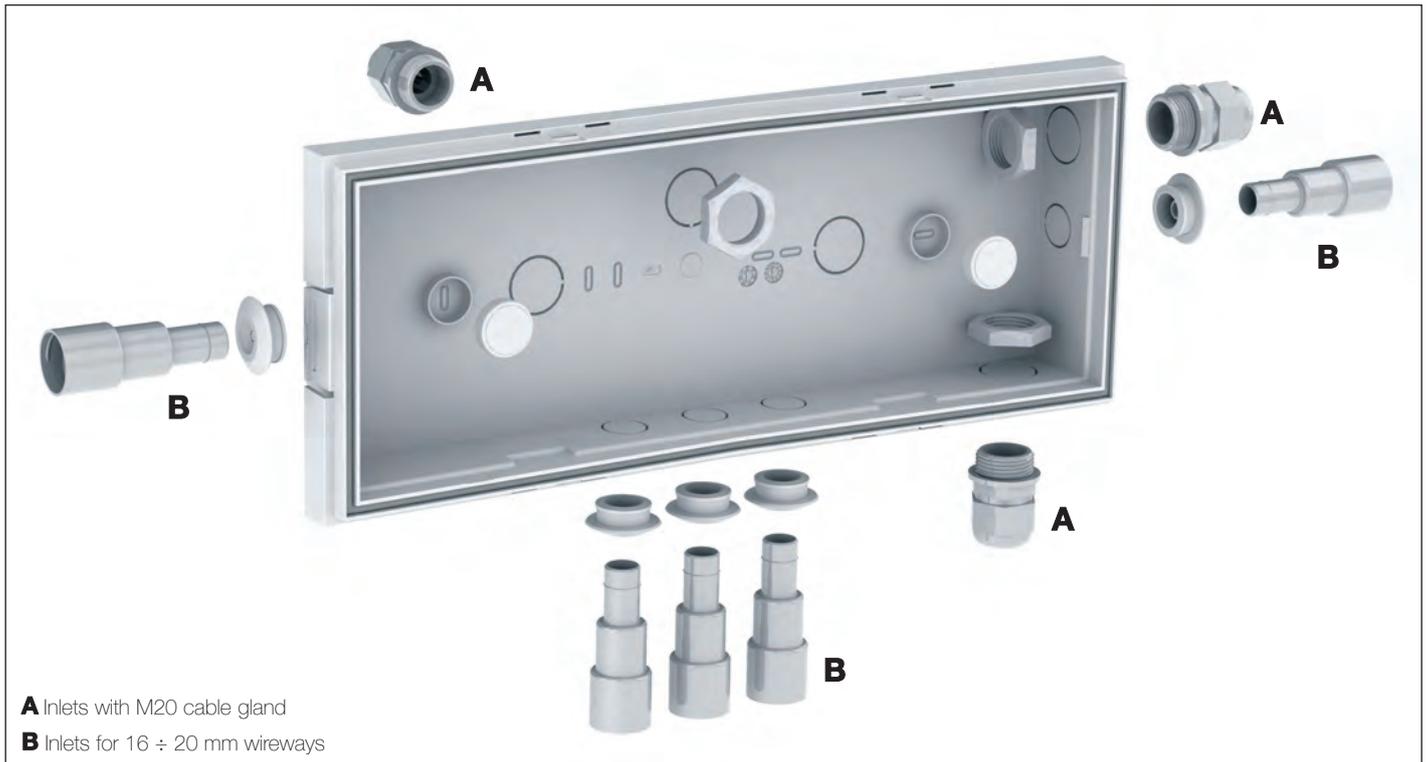
to be ordered separately

Order code	Description
20150	CABLECOM CONTROL UNIT
20151	WIFI CABLECOM CONNECT CONTROL UNIT

## Accessories Ultimate

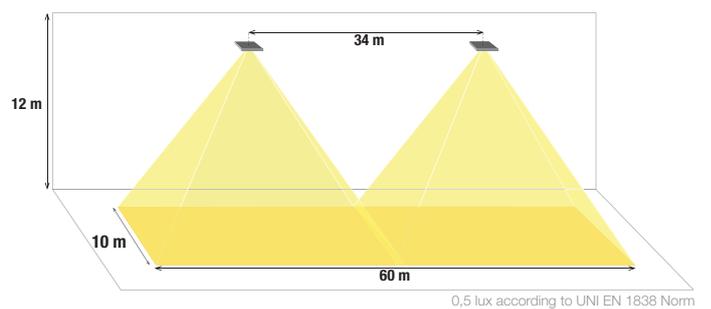
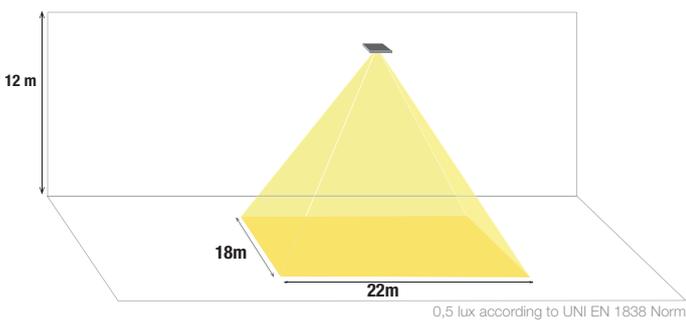
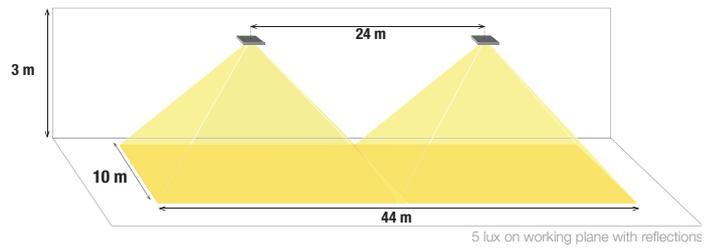
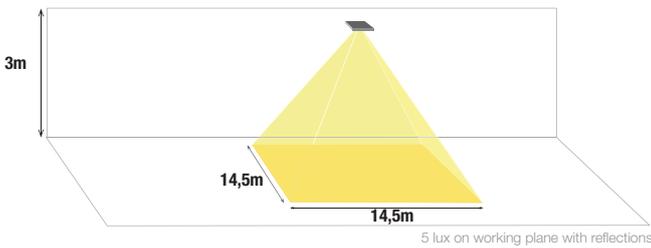
to be ordered separately

Cod. Ordine	Descrizione
15037	LGFM MODULE
15038	DALI MODULE
RA04	AR LTO BATTERY SYSTEM 9.6V 1.2AH

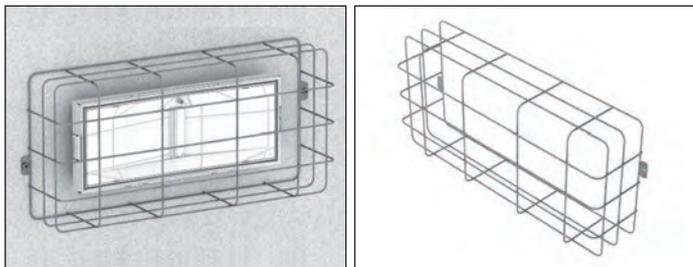


The mechanics of the lamp body has been studied in collaboration with a team of installers who have tested its versatility. Power supply inlets provided on every side, suitable for any type of wireway (16-20mm) or direct cable (M20 cable gland). The opening system has 4 snap hooks that allow access to the reflector and to the lamp circuit for wiring and manual adjustments (when not using the CableCom Connect APP)

UNPRECEDENTED LIGHTING PERFORMANCE



## PROTECTIVE GRILLE



**3912** PROTECTIVE GRILLE (440x215x99mm)

*to be ordered separately*

## RECESSED MOUNTING

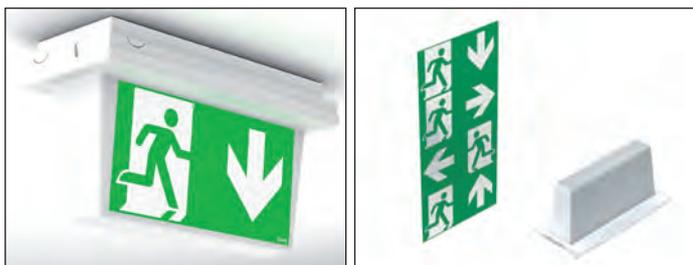


Recessed mounting hole: 326 x 132 x 40 mm

**4683** LED recess BOX

*to be ordered separately*

## FALSE CEILING EDGE MOUNTING



**4687** INFINITA PLASTERBOARD RECESSED MOUNTING BRACKET *to be ordered separately*

**4681** INFINITA EDGE MOUNTING DIFFUSER 25m

*to be ordered separately*

## INSTALLAZIONE A INCASSO IN CONTROSOFFITTO



Drilling tool included: 308x114 mm

**4687** INFINITA PLASTERBOARD RECESSED MOUNTING BRACKET *to be ordered separately*

## EDGE MOUNTING



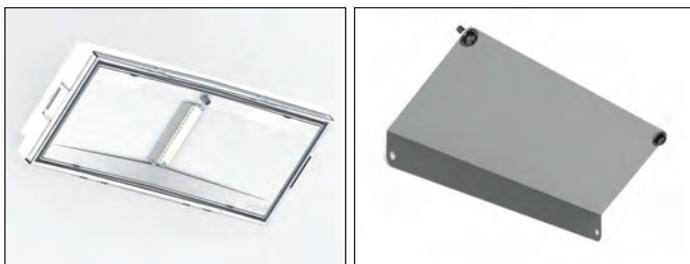
**4686** STAFFA FISSAGGIO BANDIERA INFINITA

*da ordinare separatamente*

**4681** SCHERMO BANDIERA INFINITA 25m

*da ordinare separatamente*

## 45° MOUNTING



**4685** INFINITA LED 45° BRACKET

*to be ordered separately*

## SUSPENDED MOUNTING



**3723** SUSPENDED MOUNTING HOOKS

*to be ordered separately*

## SUSPENDED MOUNTING WITH RODS



**4315** SUSPENDED MOUNTING RODS 250mm

*to be ordered separately*

**4316** SUSPENDED MOUNTING RODS 500mm

*to be ordered separately*

**4317** SUSPENDED MOUNTING RODS 1000mm

*to be ordered separately*

## CABLECOM CONTROL UNIT



**20150** CABLECOM CONTROL UNIT

for CABLECOM version only

## CABLECOM CONNECT CONTROL UNIT



**20151** WIFI CABLECOM CONNECT CONTROL UNIT

for CABLECOM version only

## LGFM MODULE



**15037** LGFM MODULE

for ULTIMATE version only

## DALI MODULE



**15038** MODULO DALI

for ULTIMATE version only

## Cablecom

Autotest/Centraltest

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SA lm	Max. Absorption max W	Weight kg	Pack
11	<b>19450</b>	INFINITA RTI IP65 SE CBL LTO L	SE	1/1,5/2/3/8h	4,8V 0,5Ah LTO	16	250/170/130/90/40		1	0,6	1/6
24	<b>19451</b>	INFINITA RTI IP65 SE CBL LTO XL	SE	1/1,5/2/3/8h	4,8V 1,2Ah LTO	16	500/340/260/180/70		2,6	0,6	1/6
11	<b>19452</b>	INFINITA RTI IP65 SA CBL LTO L	SA/SE	1/1,5/2/3/8h	4,8V 0,5Ah LTO	16	250/170/130/90/40	90	1,8	0,6	1/6
24	<b>19453</b>	INFINITA RTI IP65 SA CBL LTO XL	SA/SE	1/1,5/2/3/8h	4,8V 1,2Ah LTO	16	500/340/260/180/70	250	4,8	0,6	1/6
24GL	<b>19460</b>	INFINITA GL RTI SA/SE CBL LTO	SA/SE	1/1,5/2/3/8h	2x4,8V 1,2Ah LTO	16	1000/680/525/370/145	250	4,8	0,6	1/6

## LOGICA Ultimate

IT DOUBLES THE FLUX

Autotest/Centraltest, DALI

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Setting HIGH FLUX	Average flux SA lm	Max. Absorption max W	Weight kg	Pack
36	<b>19470</b>	INFINITA ULTIMATE RTI SA/SE LTO	SA/SE/PS	1/1,5/3h*	9.6V 1.2Ah LTO	16	850/600/350	<b>1700/1150/620</b>	850	7/13	0,6	1/6

\* The indicated Autonomy doubles with the Autoripara battery, if the luminaire is set to LONG OPERATING TIME

## LOGICA 230

Centralized power supply 230V

W**	Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
11	<b>31170</b>	INFINITA RTI LGS230 SA/SE L	16	500	4,5	8,6	0,6	1/6
24	<b>31171</b>	INFINITA RTI LGS230 SA/SE XL	16	1400	15,1	16,3	0,6	1/6

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	Flux SE lm max	Flux SA lm	Absorption max (DC) W	Absorption (SA) VA	Weight kg	Pack kg
11	<b>32110</b>	INFINITA RTI LGS24 SE L	16	500	-	3,9	-	0,6	1/6
24	<b>32111</b>	INFINITA RTI LGS24 SA/SE XL	16	500	1400	4,3	15,2	0,6	1/6

## HT 230

Mains power supply

W**	Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
11	<b>31174</b>	INFINITA RTI HT L	16	500	4,5	9	0,6	1
24	<b>31175</b>	INFINITA RTI HT XL	16	1400	15,1	14,9	0,6	1



#### GENERAL CHARACTERISTICS

<b>Power**</b>	24, 36W
<b>Power supply***</b>	230Vac ± 10% 50/60Hz
<b>Operation***</b>	Non-Maintained (SE), Maintained (SA), Public Entertainment (PS): Ultimate vers. only
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222, EN 62034
<b>Protection grade</b>	IP65, IK08
<b>Autonomy:</b>	<b>CableCom vers.</b> 1h, 1,5h, 2h, 3h, 8h Infinity Function <b>Ultimate vers.</b> 1h, 1,5h, 3h With Autoripara Battery: 2h, 3h, 6h Overtime function
<b>Charging time:</b>	<b>CableCom vers.</b> L, GL: 24h - XL: 12h <b>Ultimate vers.</b> 6h 12h (with Autoripara battery)
<b>Working temp.***</b>	-20°C ÷ +50°C (Titanium Battery)
<b>Mounting</b>	wall mounting, ceiling suspended mounting, recessed mounting, false ceiling mounting, suspended mounting, suspended mounting with rods
<b>Body</b>	White polycarbonate RAL 9003
<b>Optics</b>	RTI= Total Internal Reflection anti-glare
<b>Diffuser</b>	Clear polycarbonate
<b>Light source</b>	LED - 4000K

\*\* Indicative power for comparison with fluorescent tube luminaires  
\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT)  
the parameters of which depend on the Control Unit used

## Infinita LED X5

X5 optical system with 5 interchangeable lenses included that allow to radically change the area of intervention of the light beam. The set includes lenses for installation heights from 2m to over 12m. This innovative optical system offers optimal performance on emergency exit routes if installed at a centre distance of up to 34m.

The body is particularly rugged (IK08-IP65) and provided with several inlets both on its sides and at the back to ensure quick and optimal wiring under any installation conditions. The wide range of accessories makes it possible to solve any issues related to emergency lighting. With the LTO (Lithium Titanate) battery you can obtain the technical framework of an absolute luminaire that has no limitations on use.

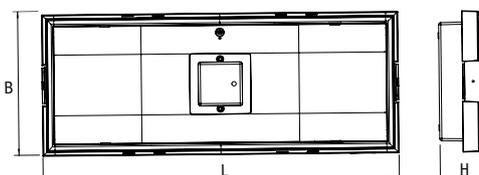
**Quality guaranteed for 10 years.**

### CABLECOM Version

As standard, it is an AT luminaire with 1h Autonomy but the jumper can be used to increase the Autonomy to 3h. The App or the CableCom Control Unit can be used to adjust all the parameters of the lamp.

### ULTIMATE version

Supplied in the centralised version (LG) configured automatically to the Autotest (AT) version unless connected to a control unit. The luminaire can be transformed from LG into LGFM or DALI with the use of just one accessory. The circuit also allows customising the luminaire according to the requirements of use by adjusting its Autonomy (1h/1,5h/3h); it is also possible to switch to the PS version, adjusting the light intensity as desired. The Autonomy can be **doubled and the luminous flux can be increased by adding the Autoripara Battery to the standard battery.**



Power** W	• Dimensions (mm) •		
	L	B	H
24/36	325	130	45

### Accessories

included

Code Order	Description
-	CABLE GLAND MEMBRANE M16 IP65
-	CONDUIT ADAPTER 16/20 WHITE
-	LARGALUCE LENS (WIDE BEAM) - FITTED AS STANDARD
-	LUNGALUCE LENS (LONG BEAM) (A)
-	ALTORISCHIO LENS (NARROW BEAM) (B)
-	EXTRA LUNGALUCE LENS (C)
-	EXTRA LARGALUCE LENS (D)

### Accessories

to be ordered separately

Code Order	Description
4683	INFINITA LED RECESS BOX
4687	INFINITA PLASTERBOARD RECESSED MOUNTING BRACKET
4685	INFINITA LED 45° BRACKET
3912	PROTECTIVE GRILLE (440X215X99)
4315	SUSPENDE MOUNTING RODS 250MM
4316	SUSPENDE MOUNTING RODS 500MM
4317	SUSPENDE MOUNTING RODS 1000MM
3723	SUSPENDE MOUNTING HOOKS

### Accessories CableCom

to be ordered separately

Code Order	Description
20150	CABLECOM CONTROL UNIT
20151	WIFI CABLECOM CONNECT CONTROL UNIT

### Accessories Ultimate

to be ordered separately

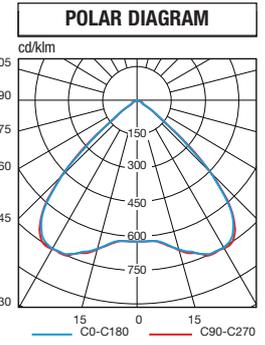
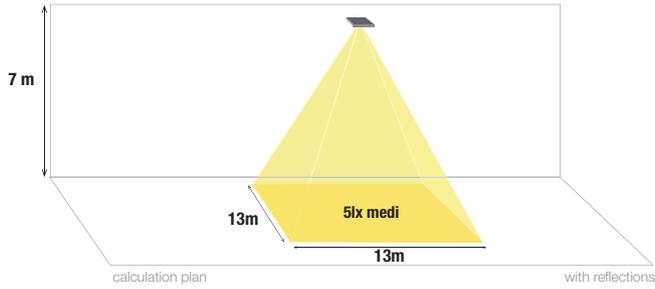
Code Order	Description
15037	LGFM MODULE
15038	DALI MODULE
RA04	AR LTO BATTERY SYSTEM 9.6V 1.2AH



**LARGALUCE LENS**

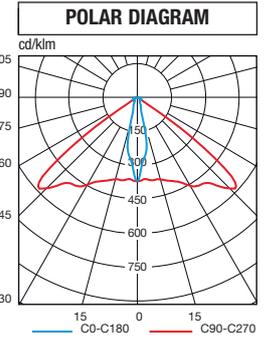
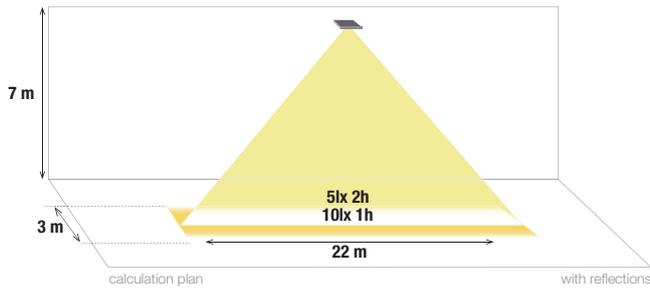
Lens efficiency 90%

fitted as standard



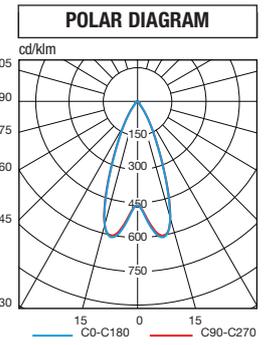
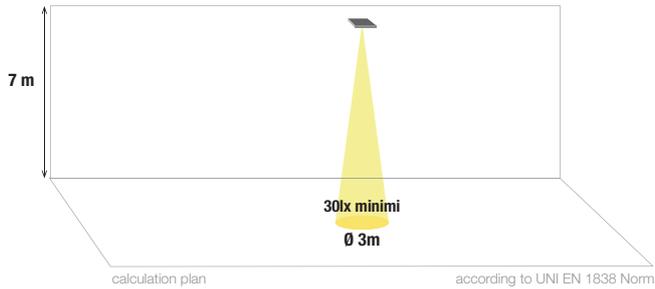
**LARGALUCE LENS (A)**

Lens efficiency 85%



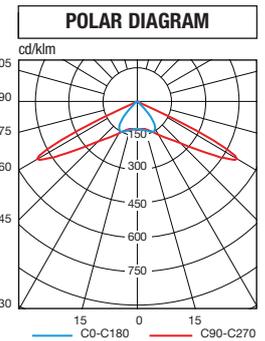
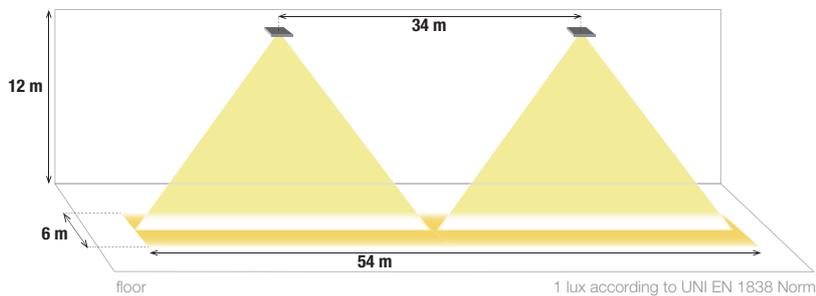
**LARGALUCE LENS(B)**

Lens efficiency 87%



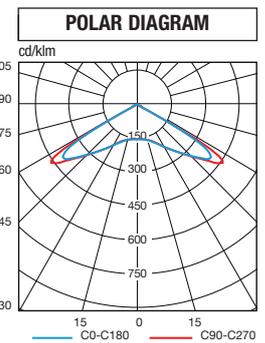
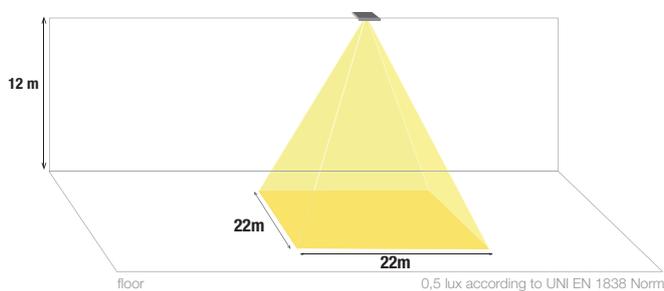
**LARGALUCE LENS (C)**

Lens efficiency 85%

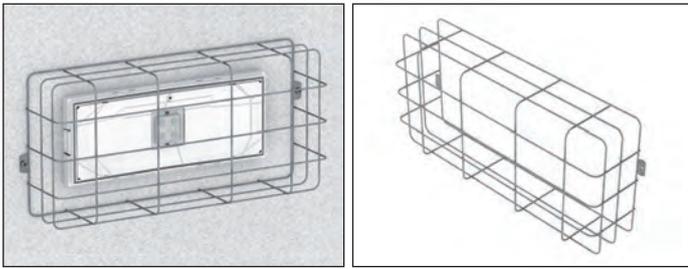


**LARGALUCE LENS (D)**

Lens efficiency 87%

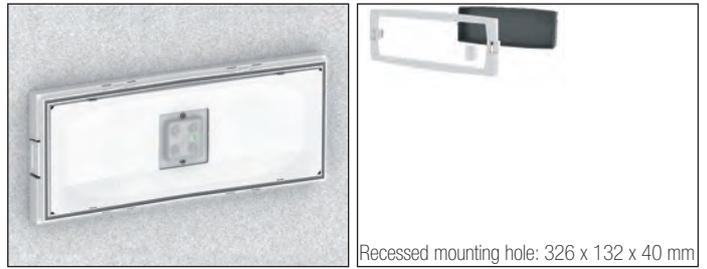


### PROTECTIVE GRILLE



**3912** PROTECTIVE GRILLE (440x215x99) *to be ordered separately*

### RECESSED MOUNTING



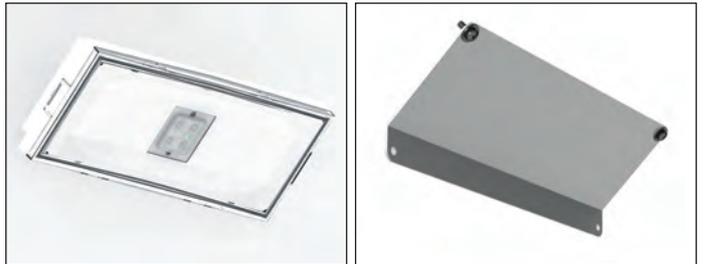
**4683** INFINITA LED RECESS BOX *to be ordered separately*

### FALSE CEILING RECESSED MOUNTING



**4687** INFINITA PLASTERBOARD RECESSED MOUNTING BRACKET *to be ordered separately*

### 45° MOUNTING



### SUSPENDED MOUNTING



**3723** SUSPENDED MOUNTING HOOKS *to be ordered separately*

### SUSPENDED MOUNTING WITH RODS



**4315** SUSPENDED MOUNTING RODS 250mm *to be ordered separately*

**4316** SUSPENDED MOUNTING RODS 500mm *to be ordered separately*

**4317** SUSPENDED MOUNTING RODS 1000mm *to be ordered separately*

## CABLECOM CONTROL UNIT



**20150** CABLECOM CONTROL UNIT

for CABLECOM version only

## CABLECOM CONNECT CONTROL UNIT



**20151** WIFI CABLECOM CONNECT CONTROL UNIT

for CABLECOM version only

## LGFM MODULE



**15037** LGFM MODULE

for ULTIMATE version only

## DALI MODULE



**15038** MODULO DALI

for ULTIMATE version only

## Cablecom

Autotest/Centraltest

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SA lm	Absorption max W	Weight kg	Pack
24GL	<b>19461</b>	INFINITA GL 5X SA/SE CBL LTO	SA/SE	1/1,5/2/3/8h	2x4,8V 1,2Ah LTO	4	900/600/470/330/130	250	4,78	0,6	1/6

## LOGICA Ultimate



IT DOUBLES THE FLUX

Autotest/Centraltest, DALI

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Setting HIGH FLUX	Average flux SA lm	Absorption max W	Weight kg	Pack
36	<b>19471</b>	INFINITA ULTIMATE 5X SA/SE LTO	SA/SE/PS	1/1,5/3h*	LTO 9.6V 1.2Ah	4	750/500/300	<b>1500/1000/550</b>	700	7/13	0,6	1/6

\* The indicated Autonomy doubles with the Autoripara battery, if the luminaire is set to LONG OPERATING TIME

## LOGICA 230

Centralized power supply 230V

W**	Order Code	Description	N° LED	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
24	<b>31172</b>	INFINITA 5X LGS230 SA/SE XL	4	1200	15,1	16,3	0,6	1/6

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	flux SE lm ridotto	flux SE lm max	flux SA lm	Absorption max (DC) W	Absorption (SA) VA	Weight kg	Pack
24	<b>32112</b>	INFINITA 5X LGS24 SA/SE XL	4		500	1200	4,3	15,2	0,6	1/6

## HT 230

Mains power supply

W**	Order Code	Description	N° LED	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
24	<b>31176</b>	INFINITA 5X HT XL	4	1200	15,1	14,9	0,6	1/6



# CableCom Control Unit

## CableCom

Centralised emergency lighting control system that can be used to test the Emergency luminaires and signs.

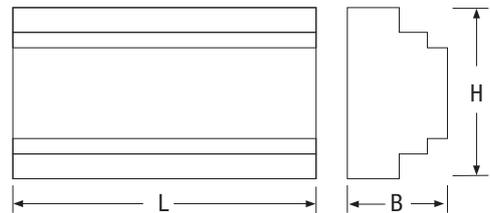
The great innovation of this system consists in the use of the electrical network as a communication BUS thanks to a smart system that enables the system to play a double role. During testing, the system is put in emergency mode and, therefore, disconnected from the mains; at the same time, the Control Unit runs the necessary checks on the luminaires using the wires, temporarily not used for power supply, as a dedicated luminaire control system via BUS. In the event of a fault, a light will turn on on the Control Unit panel to indicate that a malfunction has been detected on one of the luminaires; the faulty luminaire will then be identified by the indicator light installed on it. This is a highly reliable system, simple to install and economic.

Simplified programming: simply set the number of luminaires and launch the self-acquisition feature of the system.

### TECHNICAL SPECIFICATIONS

<b>Power supply***</b>	230Vac ± 10% 50/60Hz
<b>Max. absorption</b>	4,5W
<b>Power factor</b>	0,44
<b>Maximum number of luminaires controlled</b>	32
<b>Maximum output current</b>	5A
<b>Max. cable section (in and out)</b>	2,5 mm <sup>2</sup>
<b>Mounting</b>	4 DIN modules
<b>System clock backup battery LiFe</b>	3.2V 60mAh - Autonomy 7 days

\* Input Circuit Breaker Recommended (Curve B, C or D) 6A



• Dimensions (mm) •			Weight g
L	B	H	
71	60	90	150

## Cablecom

Order Code	Description	Weight g	Pack
20150	CENTRALE CABLECOM	150	1

# CableCom Connect Control Unit

CableCom

Centralised emergency lighting control system that can be used to test the Emergency luminaires and signs.

The great innovation of this system consists in the use of the electrical network as a communication BUS thanks to a smart system that enables the system to play a double role. During testing, the system is put in emergency mode and, therefore, disconnected from the mains; at the same time, the Control Unit runs the necessary checks on the luminaires using the wires, temporarily not used for power supply, as a dedicated luminaire control system via BUS. If a fault is detected, the test results, together with all the parameters of the lamp and of the system will be sent via WiFi (including the location of the luminaires).

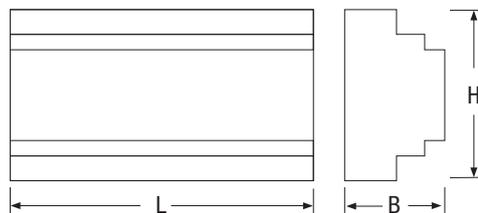
It can be used to keep a logbook as required by standard UNI 11222, with the possibility to download the document in pdf form for storage. It can be used to manage the commands sent to one particular luminaire or broadcasted to several devices.



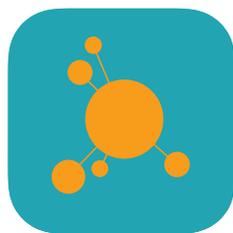
## TECHNICAL SPECIFICATIONS

- Power supply\*\*\*** 230Vac ± 10% 50/60Hz
- Max. absorption** 5,5W
- Power factor** 0,44
- Maximum number of luminaires controlled** 32
- Maximum output current** 5A
- Max. cable section (in and out)** 2,5 mm<sup>2</sup>
- Mounting** 4 DIN modules
- System clock backup battery LiFe** 3.2V 60mAh - Autonomy 7 days

\* Input Circuit Breaker Recommended (Curve B, C or D) 6A



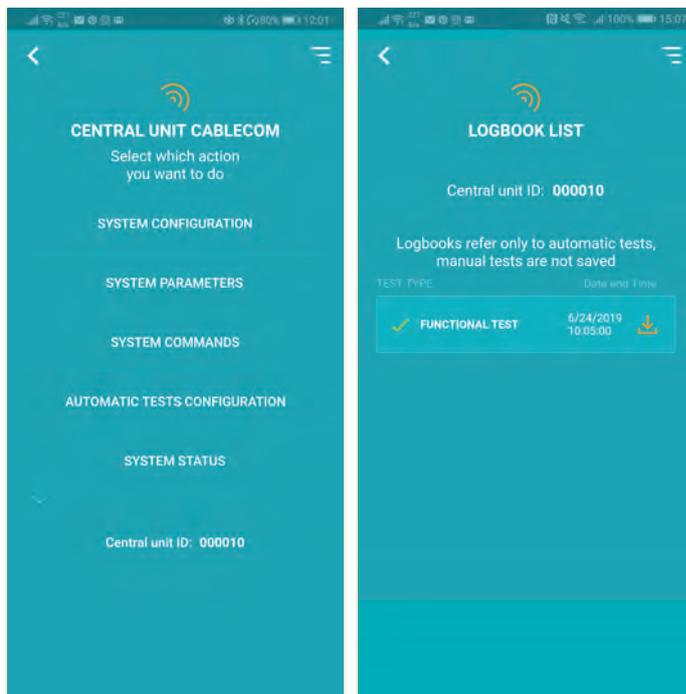
• Dimensions(mm) •			Weight g
L	B	H	
71	60	90	160



Cablecom

## App CableCom Connect

With Beghelli CableCom you can interact directly with each individual emergency lamp by one-way optical communication. You will, therefore, be able to modify the configuration parameters of each individual luminaire, start diagnostic tests and run other advanced functions.



Cablecom

WiFi

Order Code	Description	Weight g	Pack
20151	WiFi CABLECOM CONNECT CONTROL UNIT	160	1

# Logica LED Ultimate

## LED Emergency

This emergency lighting luminaire is characterised by a particularly sophisticated electronic technology. Logica LED Ultimate is supplied in the centralised version (LG) configured automatically to the Autotest (AT) version unless connected to a control unit. The luminaire can be transformed from LG into LGFM with the use of only one accessory. This technology makes it possible to check the efficiency of the luminaire immediately.

The circuit also allows customising the luminaire according to the requirements of use by adjusting its Autonomy (1h/1,5h/3h) and, on SA versions, it is also possible to switch to the PS version, adjusting the light intensity according to the requirements of each particular type of public operation. This feature is particularly useful when the safety signs are the only visible element. When added to the primary battery, the Autoripara Battery can double the Autonomy or increase the flux. Therefore, the self-repair batteries installed on the luminaires must be readily identifiable, elegant, unobtrusive and of the same type.

Thanks to its distinctive features, such as symmetry and extreme lighting uniformity, Logica LED Ultimate can be mounted without a predefined orientation on walls and ceilings or flush with the wall using the special recessed mounting accessory complete with a box and wire cover.

The body houses a double reflection optics that in turn contains two series of highly efficient LEDs that guarantee unprecedented lighting performance (of up to 2000lm). The highly transparent polycarbonate diffuser is designed to seal the optical unit and guarantee an IP65 protection rating.

The LTO battery can withstand extreme operating temperatures (**quality guaranteed for 10 years**).

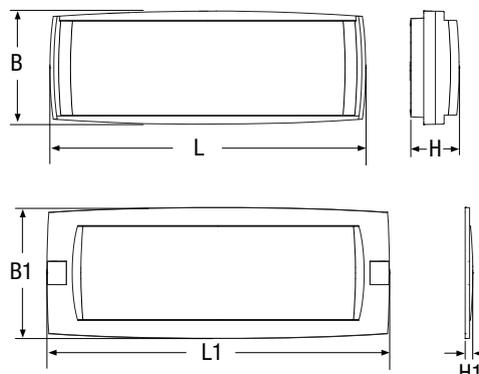


### GENERAL CHARACTERISTICS

- Power\*\*** 8, 11, 24, 36W
- Power supply\*\*\*** 230Vac ± 10% 50/60Hz
- Operation\*\*\*** Non-Maintained (SE),  
Maintained/Public Entertainment (SA/PS)
- Standard** EN 60598-1, EN 60598-2-2,  
EN 60598-2-22, UNI EN 1838,  
UNI 11222, EN 62034
- Protection grade** IP65, IK07
- Autonomy\*\*\*** 1h, 1,5h, 3h  
With Autoripara Battery: 2h, 3h, 6h  
Overtime function
- Charging time\*\*\*** 8h
- Ambient temp.\*\*\*** -20°C ÷ +50°C
- Mounting** wall mounting, ceiling mounting,  
recessed mounting, false ceiling  
mounting
- Body** White polycarbonate RAL 9003
- Optics** Symmetrical, Anti-glare metallic  
polycarbonate
- Diffuser** Clear polycarbonate
- Light source** LED - 5000K

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

\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT), the parameters of which depend on the Control Unit used



Power** W	• Dimensionsi (mm) •						Distance of visibility (DV) Diffuser
	L	B	H	L1	B1	H1	
24	406	147	63	440	170	10	20

## Accessories

included

Order code	Description
-	LOGICA CABLE CONDUIT GLAND
12175	LOGICA LED DIFFUSER RH
12176	LOGICA LED DIFFUSER LH
12177	LOGICA LED DIFFUSER BOTTOM

## Accessories

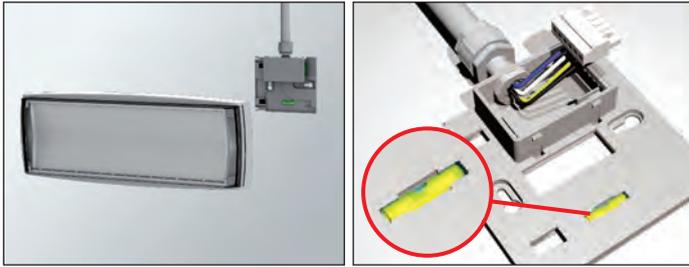
to be ordered separately

Order code	Description
12179	LOGICA LED RECESS BOX WITH FRAME
12199	QUICK WALL MOUNTING BRACKET IP65
3912	PROTECTIVE GRILLE (440X215X99)
12180	LOGICA LED FALSE CEILING BRACKET
RA04	AR LTO BATTERY SYSTEM 9.6V 1.2AH
12178	LOGICA LED DIFFUSER TOP
15037	LGFM MODULE (FOR ULTIMATE VERSIONS ONLY)
15038	DALI MODULE (FOR ULTIMATE VERSIONS ONLY)



12175	Logica LED PS diffuser RH	included
12176	Logica LED PS diffuser LH	included
12177	Logica LED PS diffuser BOTTOM	included
12178	Logica LED PS diffuser TOP	to be ordered separately

## WALL MOUNTING WITH QUICK RELEASE BRACKET AND SPIRIT LEVEL



**12199** QUICK RELEASE WALL MOUNTING BRACKET IP65 included

## FALSE CEILING AND PLASTERBOARD MOUNTING



**12180** LOGICA LED FALSE CEILING BRACKET PLUS FRAME to be ordered separately

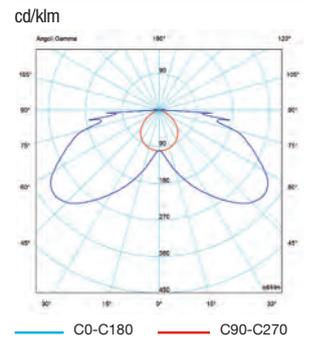
## RECESSED MOUNTING



**12179** LOGICA LED RECESS BOX WITH FRAME to be ordered separately

## Logica LED Ultimate

### POLAR DIAGRAM



## LOGICA Ultimate

IT DOUBLES THE FLUX

Autotest/Centraltest, DALI

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Setting HIGH FLUX	Average flux SA lm	Absorption max W	Weight kg	Pack
36	<b>19410</b>	LOGICA LED LTO LGAR SE 1100LM	SE	1/1,5/3h*	LTO 9.6V 1.2Ah	30	1100/750/400	<b>2000/1500/800</b>		7	2.2	1/6
36	<b>19411</b>	LOGICA LED LTO LGAR SA 1100LM	SA/SE/PS	1/1,5/3h*	LTO 9.6V 1.2Ah	30	1100/750/400	<b>2000/1500/800</b>	1000	7/13	2.2	1/6

\* The indicated Autonomy doubles with the Autoripara battery, if the luminaire is set to LONG OPERATING TIME

## LOGICA 230

Centralized power supply 230V

W**	Order code	Description	N° LED	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>31140</b>	LOGICA LED 8W LG230	30	400	4.1	8.5	1.4	1/6
11	<b>31141</b>	LOGICA LED 11W LG230 LS-UV	30	550	6.4	8.1	1.8	1/6
24	<b>31099</b>	LOGICA LED 24W LG230 LS-UV	30	900	10.4	12	1.8	1/6
36	<b>31120</b>	LOGICA LED 36W LG230 LS-UV	30	1500	15	15.9	1.8	1/6

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	flux SE lm max	flux SA lm	Absorption max (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>32096</b>	LOGICA LED 8W LGS24	30	400	-	3.8	-	1.8	1/6
36	<b>32089</b>	LOGICA LED 36W LGS24 LS-UV	30	600	1500	4.3	15.2	1.8	1/6

## HT 230

Mains power supply

W**	Order code	Description	N° LED	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>17403</b>	LOGICA LED 8W HT	30	400	4.4	8.9	1.4	1/6
11	<b>17404</b>	LOGICA LED 11W HT	30	550	6.1	6.4	1.8	1/6
24	<b>17405</b>	LOGICA LED 24W HT	30	900	10.2	10.4	1.8	1/6
36	<b>17406</b>	LOGICA LED 36W HT	30	1500	14.3	14.5	1.8	1/6

# Metrica LED Ultimate

## LED Emergency

This emergency lighting luminaire is characterised by a particularly sophisticated electronic technology. Metrica LED Ultimate is supplied in the centralised version (LG) configured automatically to the Autotest (AT) version unless connected to a control unit. The luminaire can be transformed from LG into LGFM with the use of only one accessory. This technology makes it possible to check the efficiency of the luminaire immediately.

The circuit also allows customising the luminaire according to the requirements of use by adjusting its Autonomy (1h/1,5h/3h) and, on SA versions, it is also possible to switch to the PS version, adjusting the light intensity according to the requirements of each particular type of public operation. This feature is particularly useful when the safety signs are the only visible element. When added to the primary battery, the Autoripara Battery can double the Autonomy or increase the flux. LED light source with controlled beam lens for installation at a centre distance between luminaires of over 17 metres. By removing the lens, the light beam changes, rendering the luminaire suitable for over-the-door installation.

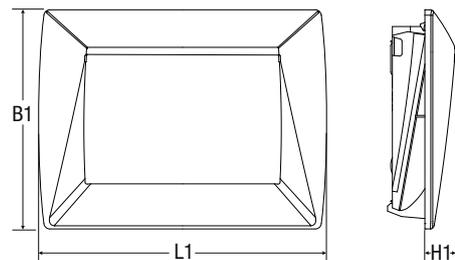
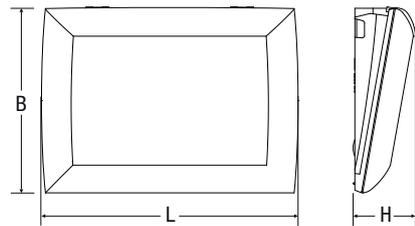
The LTO battery can withstand extreme operating temperatures (**quality guaranteed for 10 years**).



### GENERAL CHARACTERISTICS

- Power\*\*** 11, 36W
- Power supply\*\*\*** 230Vac ± 10% 50/60Hz
- Operation\*\*\*** Non-Maintained (SE),  
Maintained/Public Entertainment (SA/PS)
- Standard** EN 60598-1, EN 60598-2-2,  
EN 60598-2-22, UNI EN 1838,  
UNI 11222, EN 62034
- Protection grade** IP65, IK07
- Autonomy\*\*\*** 1h, 1,5h, 3h  
With Autoripara Battery: 2h, 3h, 6h  
Overtime function
- Charging time\*\*\*** 4h (L), 8h (XL)
- Working temp.\*\*\*** -20°C ÷ +50°C
- Mounting** wall mounting, ceiling mounting,  
recessed mounting
- Body** Polycarbonate, white RAL 9003
- Optics** Anti-glare aluminium
- Diffuser** Clear polycarbonate
- Light source** LED - 5000K

\*\* Indicative power for comparison with fluorescent tube luminaires  
\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT), the parameters of which depend on the Control Unit used



recessed version

Version	• Dimensions(mm) •					
	L	B	H	L1	B1	H1
L	213	155	52	240	184	25
XL	355	180	58	388	213	30

## Accessories

included

Order code	Description
-	LUNGALARGALUCE LENS (REMOVABLE FOR OVER-THE-DOOR INSTALLATION)
3727	CABLE CONDUIT GLAND PG16/PG20
12941	IDENTIFICATION LABELS RH,LH,BTM (XL VERSION ONLY)

## Accessories

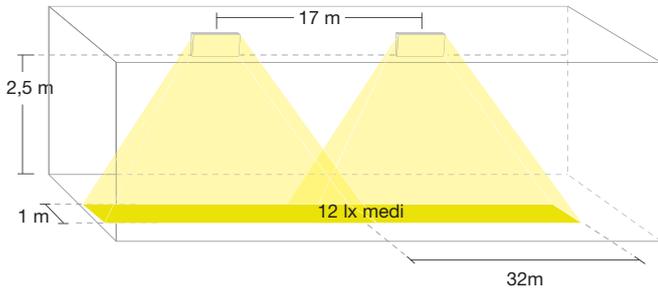
to be ordered separately

Order code	Descrizione
12942	L RECESSED MOUNTING KIT
12943	XL RECESSED MOUNTING KIT
RA05	AR LTO BATTERY SYSTEM 9.6V 0.5AH (FOR L VERSION ONLY)
RA04	AR LTO BATTERY SYSTEM 9.6V 1.2AH (FOR XL VERSION ONLY)
15037	LGFM MODULE (FOR ULTIMATE VERSIONS ONLY)
15038	DALI MODULE (FOR ULTIMATE VERSIONS ONLY)

### INSTALLATION ON ESCAPE ROUTES

(lens installed)

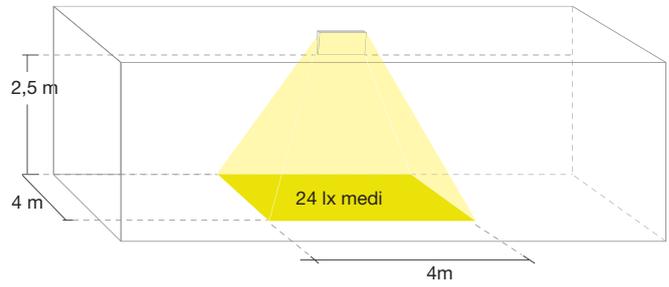
Installation at 2.5m from the ground (1h Autonomy)



### OVER-THE-DOOR INSTALLATION

(without lens)

Installation at 2.5m from the ground (1h Autonomy)



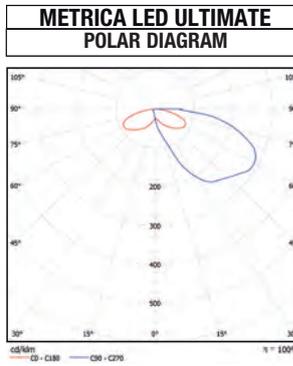
Diagrams (for example purposes only) of a Metrica LED Ultimate, "L" version, equipped with an additional Autoripara battery, installed in a high flux setting (800lm)



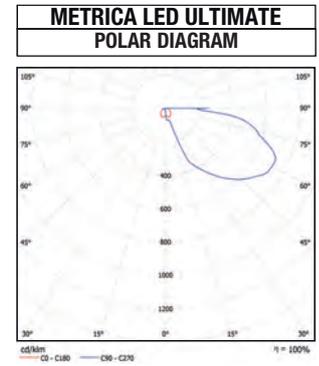
XL VERSION



L VERSION



WITH LENS (for escape routes)



WITHOUT LENSE

## LOGICA Ultimate



IT DOUBLES THE FLUX

Autotest/Centraltest, DALI

0	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Setting HIGH FLUX	Average flux SA lm	Absorption max W	Weight kg	Pack
11	19420	METRICA LED LGAR/ SA/PS LTO L	SA/SE/PS	1/1,5/3h*	LTO 9.6V 0.5Ah	1	300/200/100	600/400/200	250	5/3	0.8	1/12
36	19421	METRICA LED LGAR/ SA/PS LTO XL	SA/SE/PS	1/1,5/3h*	LTO 9.6V 1.2Ah	2	800/550/275	1600/1100/550	800	7/13	1	1/12

\* The indicated Autonomy doubles with the Autoripara battery, if the luminaire is set to LONG OPERATING TIME

## LOGICA 230

Centralized power supply 230V

W**	Order code	Description	N° LED	flux SE lm	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
11	31121	METRICA LED LGS230 L	1	800	800	6.8	8.8	0.7	1/12
36	31123	METRICA LED LGS230 XL	2	1600	1600	11.3	12.6	0.8	1/12

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	flux SE lm	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
11	32090	METRICA LED LGS24 L	1	225	800	3	6.8	0.7	1/12
36	32093	METRICA LED LGS24 XL	2	550	1600	4.3	11.1	0.8	1/12

## HT 230

Mains power supply

W**	Order code	Description	N° LED	flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
11	17423	METRICA LED HT L	1	800	6.3	6.8	0.7	1/12
36	17424	METRICA LED HT XL	2	1600	11	11.1	0.8	1/12

# Formula 65 LED Granluce

## LED Emergency



### GENERAL CHARACTERISTICS

**Power\*\*** 8, 11, 24, 36W

**Power supply\*\*\*** 230Vac ± 10% 50/60Hz

**Operation\*\*\*** Non-Maintained (SE),  
Maintained/Public Entertainment (SA/PS)

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

**Protection grade** IP65, IK07

**Autonomy\*\*\*** 1h, 1,5h, 3h  
With Autoripara Battery: 2h, 3h, 6h  
Overtime function

**Charging time\*\*\*** 12h (1 battery); 24h (2 batteries)

**Working temp.\*\*\*** -10°C ÷ +60°C

**Mounting** recessed mounting, wall mounting,  
ceiling mounting, false ceiling mounting,  
wall edge mounting, ceiling edge  
mounting

**Body** Polycarbonate, white RAL 9003

**Ottica** Symmetrical, white

**Diffuser** Clear polycarbonate

**Light source** LED - 5000K

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

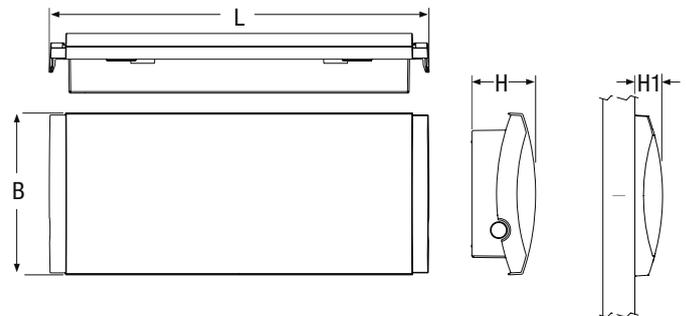
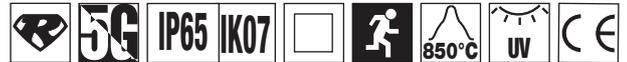
\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT), the parameters of which depend on the Control Unit used

This emergency lighting luminaire is characterised by a particularly sophisticated electronic technology. Formula 65 LED Granluce is supplied in the centralised version (LG) also, configured automatically to the Autotest (AT) version unless connected to a control unit. The luminaire can be transformed from LG into LGFM with the use of only one accessory. This technology makes it possible to check the efficiency of the luminaire immediately. The circuit also allows customising the luminaire according to the requirements of use by adjusting its Autonomy (1h/1,5h/3h) and, on SA versions, it is also possible to switch to the PS version, adjusting the light intensity according to the requirements of each particular type of public operation. This feature is particularly useful when the safety signs are the only visible element. When added to the primary battery, the Autoripara battery can double the Autonomy (if the luminaire is set to long operating time) or increase the flux (if the luminaire is set to high flux).

Characterised by a great flexibility of use. Thanks to its symmetry and extreme lighting uniformity, Formula 65 LED Granluce can be installed without a predefined orientation, being suitable for wall mounting, ceiling mounting, edge mounting and recessed mounting.

The white polycarbonate body houses a double reflection optics that in turn contains two series of highly efficient LEDs. The highly transparent polycarbonate diffuser is designed to seal the optical unit and guarantee an IP65 protection rating. On the outer housing of the product there are several pre-scored inlets for direct fixing on all the most common junction and recess boxes.

LiFe batteries for extreme ambient temperatures (**quality guaranteed for 5 years**).



• Dimensions (mm) •				Distance of visibility (DV)	
L	B	H	H1	wall	edge mounting
354	152	63.4	26	25 m	28 m

### FALSE CEILING EDGE MOUNTING



<b>19049</b>	FALSE CEILING BRACKET F65 EX	to be ordered separately
<b>19042</b>	EDGE MOUNTING DIFFUSER RH/LH	to be ordered separately
<b>19043</b>	EDGE MOUNTING DIFFUSER BOTTOM	to be ordered separately

## Accessories

included

Cod. Ord.	Description
-	FORMULA 65 M20 CABLE CONDUIT GLAND
-	CONDUIT ADAPTER 16/20 WHITE
<b>19044</b>	ADES LH RH BTM F65 (FOR SA VERSIONS ONLY)

## Accessories

to be ordered separately

Cod. Ord.	Description
<b>19048</b>	SCATOLA DA INCASSO + CORNICI F65 EX
<b>19049</b>	STAFFA CONTROSOFFITTO F65 EX
<b>19045</b>	STAFFA A PARETE PER BANDIERA F65
<b>3912</b>	GRIGLIA DI PROTEZIONE (440x215x99)
<b>RA06</b>	SISTEMA BATTERIA AR LiFe 9,6V 1,5Ah
<b>19042</b>	SCHERMO BANDIERA DX/SX F65
<b>19043</b>	SCHERMO BANDIERA BASSO F65
<b>15037</b>	MODULO LGFM (solo per versioni LG)
<b>15038</b>	MODULO DALI (solo per versioni LG)

## RECESSED MOUNTING



**19048** RECESS BOX + FRAMES F65 EX included

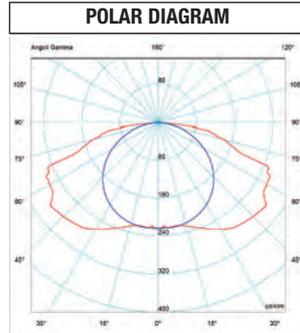
## FALSE CEILING RECESSED MOUNTING



**19049** FALSE CEILING BRACKET F65 EX to be ordered separately

Foro incasso: 370 x 130 mm

## EDGE MOUNTING



## TR

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SA lm	Absorption max W	Weight kg	Pack
24	<b>19430</b>	F65 LED LI-FE SE	SE	1,5h	LI-FEPO4 9.6V 1.5Ah	32	1100		7	0.8	1/6
24	<b>19431</b>	F65 LED LI-FE SA	SA	1,5h	LI-FEPO4 9.6V 1.5Ah	32	1100	350	7	0.8	1/6

## AT

Autotest Ripara

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Impostazione ALTO FLUSSO	Average flux SA lm	Absorption max W	Weight kg	Pack
36	<b>19432</b>	F65 LED LI-FE AT AR SE	SE	1/1,5/3h*	LI-FEPO4 9.6V 1.5Ah	32	1200/830/450	<b>2200/1650/900</b>		7	0.8	1/6
36	<b>19433</b>	F65 LED LI-FE AT AR SA	SA/SE/PS	1/1,5/3h*	LI-FEPO4 9.6V 1.5Ah	32	1200/830/450	<b>2200/1650/900</b>	1000	7/13	0.8	1/6

\* Le autonomie indicate raddoppiano con l'aggiunta della batteria Autoripara se impostato l'apparecchio in LUNGA DURATA

## LG

Autotest/Centraltest, DALI

W**	Order code	Description	Version	Autonomy	Battery	N° LED	Average flux SE lm	Average flux SE lm Impostazione ALTO FLUSSO	Average flux SA lm	Absorption max W	Weight kg	Pack
36	<b>19434</b>	F65 LED LI-FE LG AR SE	SE	1/1,5/3h*	LI-FEPO4 9.6V 1.5Ah	32	1200/830/450	<b>2200/1650/900</b>		7	0.8	1/6
36	<b>19435</b>	F65 LED LI-FE LG AR SA	SA/SE/PS	1/1,5/3h*	LI-FEPO4 9.6V 1.5Ah	32	1200/830/450	<b>2200/1650/900</b>	1000	7/13	0.8	1/6

\* Le autonomie indicate raddoppiano con l'aggiunta della batteria Autoripara se impostato l'apparecchio in LUNGA DURATA

## LOGICA 230

Centralized power supply 230V

W**	Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>31124</b>	F65 LED 8W LG230	32	400	4.1	8.5	0.6	1/6
11	<b>31125</b>	F65 LED 11W LG230 LS-UV	32	600	6.4	8.1	0.6	1/6
24	<b>31150</b>	F65 LED 24W LG230 LS-UV	32	1000	10.4	12	0.6	1/6
36	<b>31122</b>	F65 LED 36W LG230 LS-UV	32	1800	15	15.9	0.6	1/6

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	Flux SE lm max	Flusso SA lm	Absorption max (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>32094</b>	F65 LED 8W LGS24	32	400	-	3.8	-	0.6	1/6
36	<b>32091</b>	F65 LED 36W LGS24 LS-UV	32	600	1800	4.3	15.2	0.6	1/6

## HT 230

Mains power supply

W**	Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
8	<b>17435</b>	F65 LED 8W HT IP65	32	400	4.4	8.9	0.6	1/6
11	<b>17436</b>	F65 LED 11W HT IP65	32	600	6.1	6.4	0.6	1/6
24	<b>17437</b>	F65 LED 24W HT IP65	32	1000	10.2	10.4	0.6	1/6
36	<b>17438</b>	F65 LED 36W HT IP65	32	1800	14.3	14.5	0.6	1/6

# Practica 250 LED

LED emergency



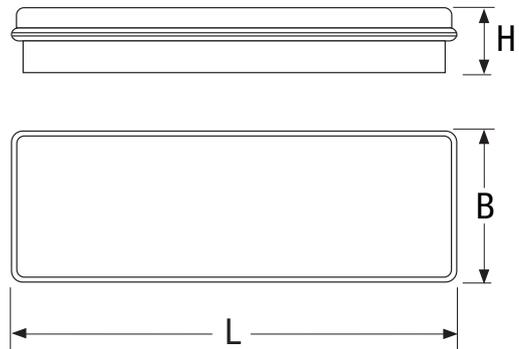
A luminaire equipped with an innovative lens that increases the lighting performance making it possible to increase the centre distance between luminaires and the pictogram lighting uniformity. The optical design offers special anti-glare and excellent light diffusion characteristics thanks to a clear methacrylate diffuser that hides the LED source while maximising the luminous flux. LiFe batteries for extreme ambient temperatures (**quality guaranteed for 5 years**).



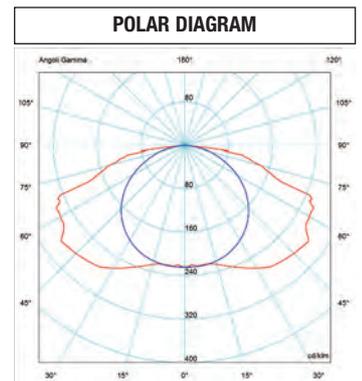
## GENERAL CHARACTERISTICS

- Power\*\*** 24W
- Power supply** 230Vac ± 10% 50Hz
- Operation** Maintained (SA), Non-Maintained (SE), Rest Mode
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, UNI 11222
- Protection grade** IP65, IK08
- Autonomy** 1,5h, 3h
- Working temp.** -10°C ÷ +60°C
- Power supply unit** Electronic driver
- Mounting** Recessed mounting, wall mounting, ceiling mounting, suspended mounting, electrified track mounting
- Body** Polycarbonate, white RAL 9003
- Optics** Anti-glare diffuser
- Diffuser** Clear polycarbonate
- Light source** LED - 5000K

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



Power** (W)	• Dimensions (mm) •			Distance visibility
	L	B	H	
24	300	138	55	24m



## Accessories

included

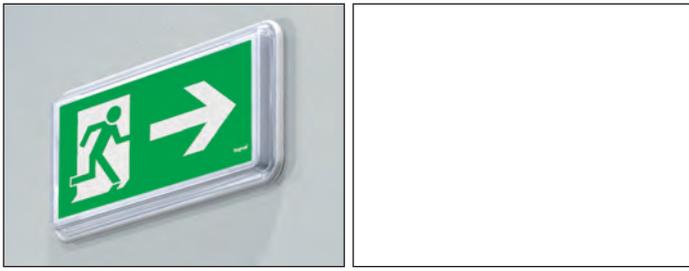
Order code	Description
4117	SECTIONAL EXIT STICKER (SA VERSIONS)

## Accessories

to be ordered separately

Order code	Description
3723	SUSPENDED MOUNTING HOOKS
2751	FALSE CEILING BRACKET
3912	PROTECTIVE GRILLE (440X215X99)
4124	DIFFUSER LH-RH
4125	DIFFUSER BOTTOM
4126	DIFFUSER TOP
2742	RECESS BOX

## SIGN DIFFUSER 24M VISIBILITY



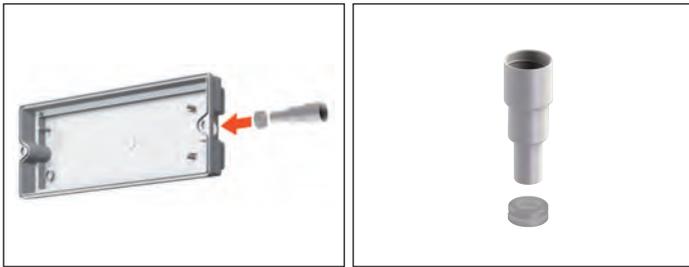
**4117** SECTIONAL EXIT STICKER included on SA versions

## SAFETY SIGNS



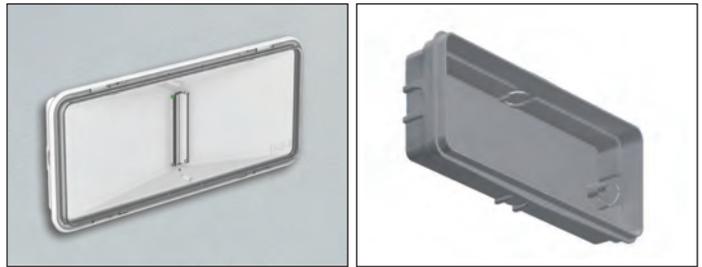
**4124** DIFFUSER LH-RH *to be ordered separately*  
**4125** DIFFUSER BOTTOM *to be ordered separately*  
**4126** DIFFUSER TOP *to be ordered separately*

## INSTALLATION WITH Ø 16 OR Ø 20 MM CONDUIT



CONDUIT ADAPTER 16/20MM WHITE included

## RECESSED MOUNTING



**2742** recess box *to be ordered separately*

## SUSPENDED MOUNTING



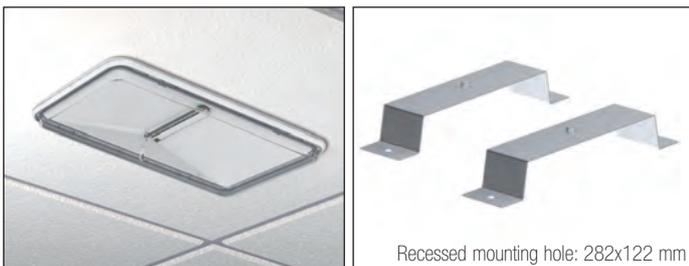
**3723** SUSPENDED MOUNTING HOOKS *to be ordered separately*

## ELECTRIFIED TRACK MOUNTING



**3723** SUSPENDED MOUNTING HOOKS *to be ordered separately*

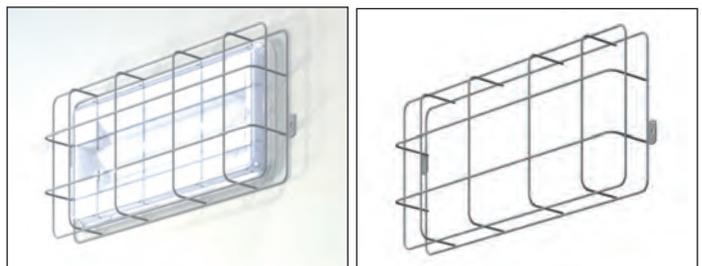
## FALSE CEILING MOUNTING



Recessed mounting hole: 282x122 mm

**2751** FALSE CEILING BRACKET *to be ordered separately*

## PROTECTIVE GRILLE



**3912** PROTECTIVE GRILLE (440x215x99) *to be ordered separately*

## AT

Autotest

W**	Order code	Description	Version	Autonomy	Average flux* Battery	N° LED	Average flux* 1,5h SE lm	Flux 3h SE lm	Ass. SA lm	Weight max W	kg	Pack
24	<b>250ATSE</b>	PRATICA 250LM 90°/3h IP65 SEAT	SE	1,5/3h	LiFe 3,2V 1,5Ah	16	250	130		4	0,8	1/12
24	<b>250ATSA</b>	PRATICA 250LM 90°/3h IP65 SAAT	SA/SE	1,5/3h	LiFe 3,2V 1,5Ah	16	250	130	200	4	1	1/12

## TR

W**	Order code	Description	Version	Autonomy	Average flux* Battery	N° LED	Average flux* 1,5h SE lm	Flux 3h SE lm	Ass. SA lm	Weight max W	kg	Pack
24	<b>250SE</b>	PRATICA 250LM 90°/3h IP65 SETR	SE	1,5/3h	LiFe 3,2V 1,5Ah	16	250	130		4	0,8	1/12
24	<b>250SA</b>	PRATICA 250LM 90°/3h IP65 SATR	SA/SE	1,5/3h	LiFe 3,2V 1,5Ah	16	250	130	200	4	1	1/12

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

# Lungalargaluce EXTREME LED

LED emergency



## GENERAL CHARACTERISTICS

<b>Power**</b>	24W
<b>Power supply***</b>	230Vac ± 10% 50Hz
<b>Operation***</b>	Maintained (SA)/Non-Maintained (SE)
<b>Standard</b>	EN 60598-1, EN 60598-2-2, EN 60598-2-22, EN 1838, UNI 11222, ATEX 2014/34/UE
<b>ATEX Classification</b>	CE EX II 3G Ex nA IIB T4 Gc, CE EX II 3D Ex tC IIIC T85°C Dc
<b>Protection grade</b>	IP65, IK09
<b>Autonomy***</b>	1h, 1,5h, 2h, 3h, 8h
<b>Charging time***</b>	3 h
<b>Ambient temp.***</b>	-20°C ÷ +50°C (Titanium battery)
<b>Mounting</b>	wall mounting, ceiling mounting, recessed mounting
<b>Body</b>	Die-cast aluminium, RAL 7040
<b>Optics</b>	Clear polycarbonate lenses
<b>Light source</b>	LED - 5000K

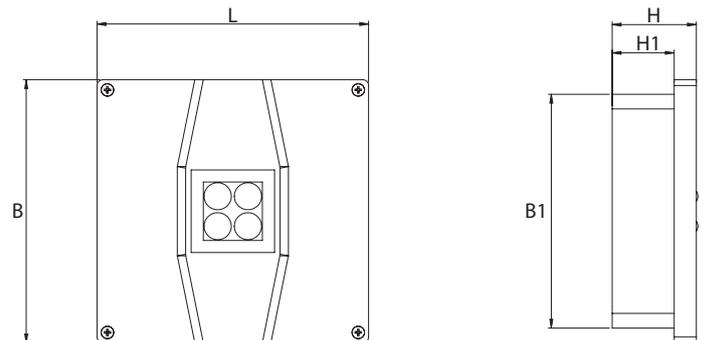
\*\* Indicative power for comparison with fluorescent tube luminaires

\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT), the parameters of which depend on the Control Unit used

Emergency luminaire with high mechanical resistance (IK09), suitable for particularly heavy industrial applications in high-risk areas. Its design features ensure its compliance with the ATEX directive 2014/34/UE for zones 02 and 22.

The optical system with interchangeable lenses makes it possible to change the intervention area of the luminaire, turning it into a multi-purpose device; installation heights from 3 to more than 7m, with light beams suitable for both emergency high-risk area and escape route lighting. Its lighting performance is at the top of its category; thanks to a lenticular optical diagram combined with high-efficiency LEDs, the luminous flux of the luminaire reaches a value of 1000lm.

The Titanium battery can withstand extreme operating temperatures (**quality guaranteed for 10 years**).



Power**	• Dimensions (mm) •				
W	L	B	B1	H	H1
24	184	180	160	57	42

## Accessories

Supplied

Order code	Description
-	LUNGALUCE LENS H 7m
-	LARGALUCE LENS H 7m
-	ALTORISCHIO LENS H 7m
-	LUNGALUCE LENS H 3m
-	LARGALUCE LENS H 3m

## System Modules

to be ordered separately

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

## Accessories

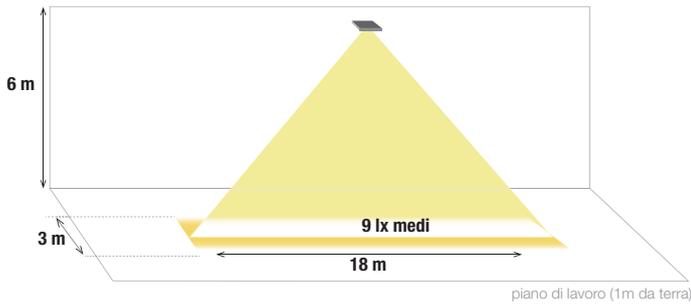
to be ordered separately

Order code	Description
<b>15043</b>	SWIVEL BRACKET LLLUCE EX
<b>15044</b>	PLASTERBOARD BRACKET LLLUCE EX



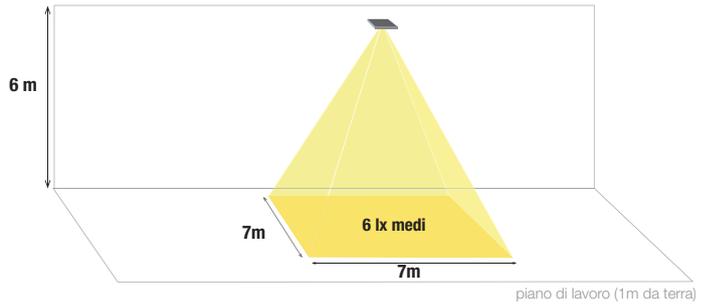
### HIGH LUNGALUCE LENS (A)

Installed at 6m from the work surface (Autonomy 1h) - Lens efficiency 85%



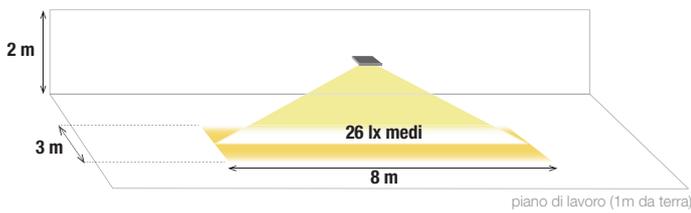
### HIGH LARGALUCE LENS - FITTED AS STANDARD

Installed at 6m from the work surface (Autonomy 1h) - Lens efficiency 90%



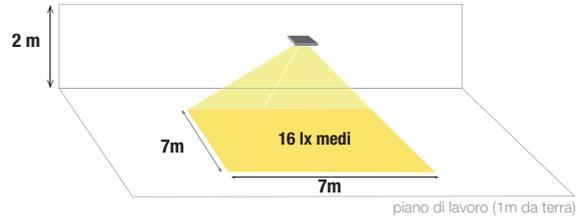
### HIGH LUNGALUCE LENS (C)

Installed at 2m from the work surface (Autonomy 1h) - Lens efficiency 90%



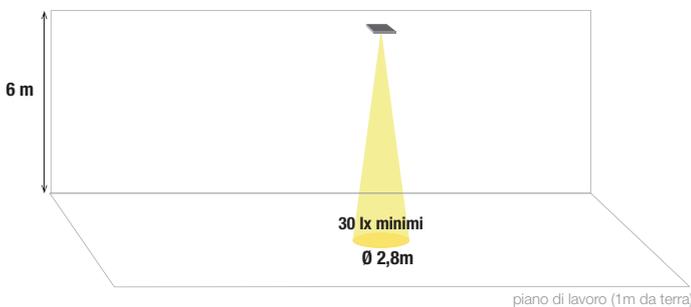
### HIGH LUNGALUCE LENS (D)

Installed at 2m from the work surface (Autonomy 1h) - Lens efficiency 90%



### HIGH LUNGALUCE LENS (B)

Installed at 6m from the work surface (Autonomy 1h) - Lens efficiency 87%



## Opticom

Autotest/Centraltest

W**	Order code	Description	Version	Autonomy	Battery	n° LED	Flux* SE lm					Flux* SA lm	Absorption W	Weight kg	Pack
							1h	1,5h	2h	3h	8h				
24	19370	LUNGALARGA EXTREME OPT SA/SE	SA/SE	1/1,5/2/3/8h	2xLTO 4,8V 1,2Ah	4	1155	770	575	385	144	575	7,5	0,9	1/6

## LOGICA 230

Centralized power supply 230V

W**	Order code	Description	N° LED	Flux* SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
24	31112	LUNGALARGA EXTREME LGS230 LS-UV	4	1200	11.8	13.3	0.9	1/6

## LOGICA 24

Centralized power supply 24V

W**	Order code	Description	N° LED	Flux* SE lm	Flux* SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
24	32083	LUNGALARGA EXTREME LGS24 LS-UV	4	840	1200	7.3	11.4	0.9	1/6

## HT 230

Mains power supply

W**	Order code	Description	N° LED	Flux* SA lm	Absorption (DC) W	Absorption (SA) VA	Weight kg	Pack
24	31113	LUNGALARGA EXTREME HT	4	1200	11.7	11.3	0.9	1/6

\* The fluxes shown in the table refer to the luminaire without lens. To identify the actual flux of the product, please consider the yield of the chosen lens in addition to the value shown in the table.

# Linea 500

Emergency for civilian series

Linea 503 and Linea 506 are recessed emergency luminaires compatible with boxes 503 and 506. Hole cover plate included. It can be used as steplight or guidelight in places of public entertainment.



## GENERAL CHARACTERISTICS

**Power** 1W

**Power supply** 230Vac ± 10% 50Hz

**Operation** Non-Maintained (SE), Rest Mode

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

**Protection grade** IP40, IK05

**Autonomy** 1h, 2h

**Ambient temp.** 0°C ÷ +40°C

**Mounting** wall mounting, recessed mounting

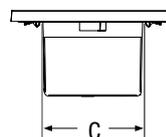
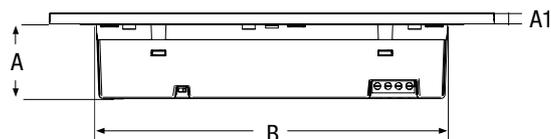
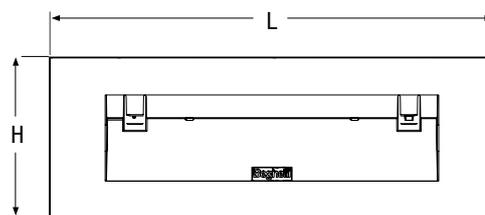
**Body** Polycarbonate

**Optics** Symmetrical, metallic

**Diffuser** Clear polycarbonate

**Light source** LED - 5000K

**Plate** Polycarbonate RAL 9003



Version	• Dimensions (mm) •					
	L	H	B	A	A1	C
Linea 503	118	76	78	36	5	49
Linea 506	209	76	164	35	5	47

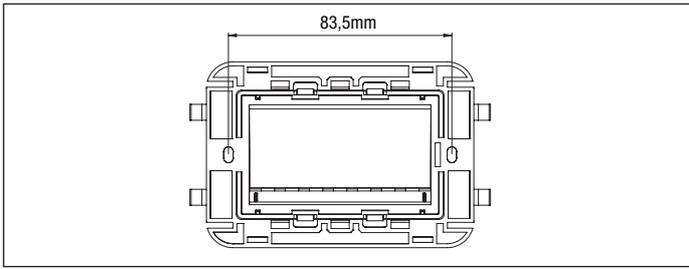
## LINEA 503



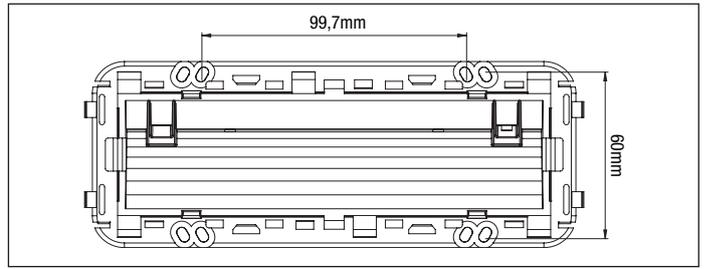
## LINEA 506



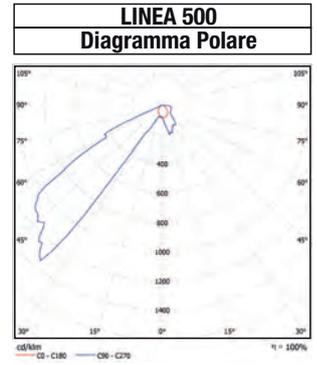
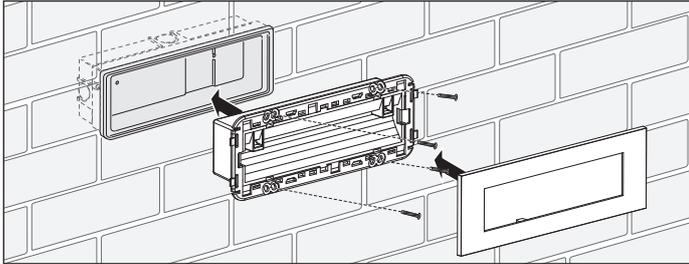
**LINEA 503 CENTRE DISTANCES**



**LINEA 506 CENTRE DISTANCES**



**MOUNTING**



**TR - LINEA 503**

Order code	Description	Version	N° LED	Autonomy	Battery	Average flux		Max. Absorption W	Weight kg	Pack
						SE	lm			
<b>4611</b>	LINEA 503 LED SE 2h	SE	6	2h	NiCd 3.6V 0.4Ah	60		0.8	0.4	1/12

**TR - LINEA 506**

Order code	Description	Version	N° LED	Autonomy	Battery	Average flux		Max. Absorption W	Weight kg	Pack
						SE	lm			
<b>4612</b>	LINEA 506 LED SE 1h	SE	4	1h	NiCd 3.6V 0.4Ah	40		0.8	0.4	1/12

# Lumax 65

## Ceiling light

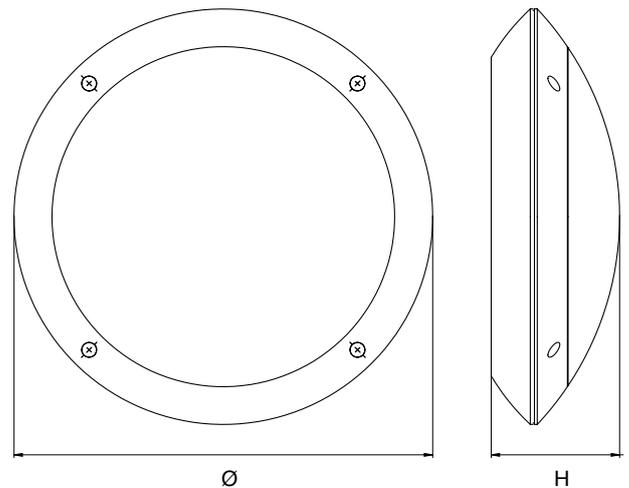
A ceiling light for regular and emergency lighting suitable for both indoor and outdoor environments; it can be mounted on the ceiling or on the wall, ideal for places that require strong and diffused lighting. Particularly recommended for lighting stairs, outdoor access areas, interior corridors in shopping centres, shops, hotels and restaurants. Available in the version with built-in microwave motion sensor.



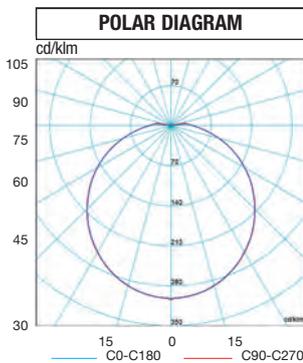
### GENERAL CHARACTERISTICS

- Power supply\*** 230Vac ± 10% 50Hz
- Operation\*** Maintained (SA)/Non-Maintained (SE)
- Standard** EN 60598-1, EN 60598-2-2, EN 60598-2-22
- Protection grade** IP65, IK10
- Autonomy** 1h, 3h, 8h
- Working temp.** -20°C ÷ +50°C
- Mounting** wall mounting, ceiling mounting
- Body** Polycarbonate, grey RAL 9006
- Diffuser** Opal polycarbonate
- Light source** LED - 4000K

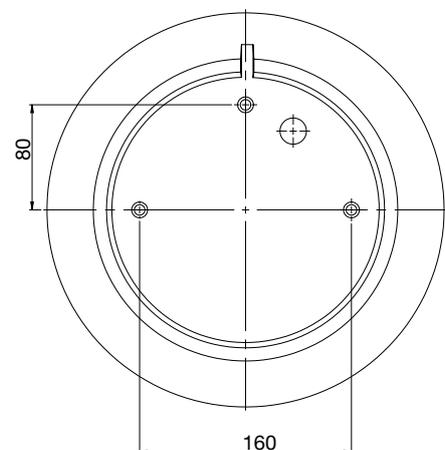
\*\*\* Excluding centralised systems (LOGICA 230, LOGICA 24 and HT), the parameters of which depend on the Control Unit used.



• Dimensions (mm) •	
Ø	H
300	90



Fori di montaggio



**SPECIAL VERSIONS: 3000K COLOUR TEMPERATURE**  
Contact Beghelli's sales network



## AT

Autotest

Order code	Description	Version	Autonomy	Battery	N° LED*	Average flux SE lm	Average flux SA lm	Max. Absorption (SA/SE) W
<b>37126</b>	LUMAX65 GR SA/SE AT 4K	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18
<b>37236**</b>	LUMAX65 GR SA/SE AT 4K MW	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18

## LG

Autotest/Centraltest

Order code	Description	Version	Autonomy	Battery	N° LED*	Average flux SE lm	Average flux SA lm	Max. Absorption (SA/SE) W
<b>37127</b>	LUMAX65 GR SA/SE LG 4K	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18
<b>37237**</b>	LUMAX65 GR SA/SE LG 4K MW	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18

## LGFM

Autotest/Centraltest

Order code	Description	Version	Autonomy	Battery	N° LED*	Average flux SE lm	Average flux SA lm	Max. Absorption (SA/SE) W
<b>37128</b>	LUMAX65 GR SA/SE LGFM 4K	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18
<b>37238**</b>	LUMAX65 GR SA/SE LGFM 4K MW	SA/SE	1/3/8h	2 x 7,2V 0,5Ah LTO	68	278/140/38	1500	2,5/18

## LOGICA 230

Centralized power supply 230V

Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA
<b>31090</b>	LUMAX65 GR S230 SA/SE 4K	68	1500	18.5	19.5
<b>31208**</b>	LUMAX65 GR S230 SA/SE 4K MW	68	1500	18.5	19.5

## LOGICA 24

Centralized power supply 24V

Order code	Description	N° LED	SE lm	Flux SA lm	Absorption (DC) W	Absorption (SA) VA
<b>32067</b>	LUMAX65 GR S24 SA/SE 4K	68	1500	1500	4.3	18
<b>32122**</b>	LUMAX65 GR S24 SA/SE 4K MW	68	1500	1500	4.3	18

## HT 230

Mains power supply

Order code	Description	N° LED	Flux SA lm	Absorption (DC) W	Absorption (SA) VA
<b>31092</b>	LUMAX65 GR HT 4K	68	1500	17	18
<b>31210**</b>	LUMAX65 GR HT 4K MW	68	1500	17	18

\* 68 LED for SA and 8 independent LED for SE

\*\* Version with built-in microwave motion sensor

# LED inverter



An electronic emergency lighting power supply unit used to switch on LED modules. The Autonomy does not depend on the lamp and can be set to 1 hour, 2 hours and 3 hours.

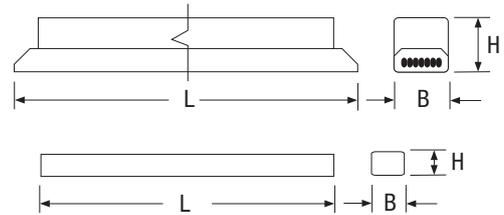
The output current control, with PWM modulation, with constant peak current, allows to operate the LED module in the best way avoiding any distortion in the luminous flux and colour temperature of the LEDs. Maximum versatility for an LED inverter. Output voltage self-adaptive with automatic load recognition. Output power independent of the connected LED module.

The charging system guarantees 1h of Autonomy after 12h of charging even in the 2h and 3h configurations. The power from the driver and the LED circuit are disconnected by relay, turning the Beghelli LED Inverter into a universal product compatible with all drivers. If the BUS does not reach it, the LG version also comes with an automatic self-diagnostic program (Autotest). With the addition of the Remote Control Module, the Inverter can be turned into LGFM.



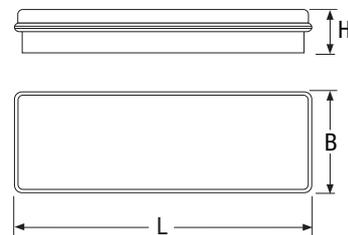
## GENERAL CHARACTERISTICS

- Max. output power** 6W, 8W
- Power supply** 230Vac 50Hz
- Operation** SA (Maintained),  
RM (rest mode with optional control device, code 12101)
- Standard** EN 61347-2-7, EN 61347-2-13,  
EN 61347-1, EN 62034
- Protection grade** IP20 (depending on the luminaire in which it is installed), IP65 (with additional housing)
- Autonomy** 1h, 2h, 3h
- Output voltage** 3V - 55V
- Peak output current** 350mA
- Ambient temp.** 0 ÷ + 50°C (Battery)  
-20 ÷ + 50°C (Inverter)
- Max temperature on the box** 70°C
- Status LED** Bi-color
- Auto testart** Compatible with test button in the AT setup
- Body** Polycarbonate



Pout (W)	Dimensions Inverter (mm)			Battery dimensions (mm)			Weight max kg
	L	B	H	L	B	H	
6	232	30	26	132	17,5	35	0.3
8	232	30	26	154	52	26	0.4

### Accessory IP65 Housing



IP	Dimensions (mm)			Weight max kg
	L	B	H	
65	301	139	55	0.5

## Accessories

to be ordered separately

Order code	Description
19375	LED INVERTER LGFM MODULE
19376	LED INVERTER IP65 HOUSING

**EXAMPLE OF FLUX CALCULATION FOR BS 100 LED (SMART DRIVER) WITH LED INVERTER WITH 1H OF AUTONOMY (CODE 19355)**

The LED Inverter is able to guarantee the maximum lighting performance that the luminaire on which it is installed can achieve. Below is the calculation method and an example for determining the Rated Flux in emergency mode

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

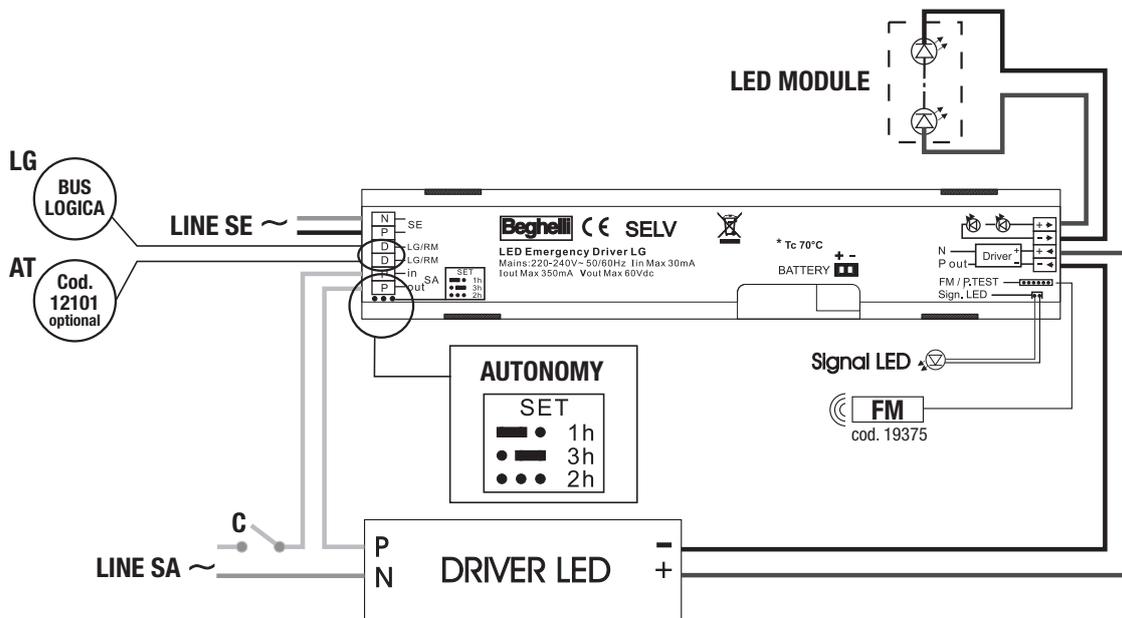
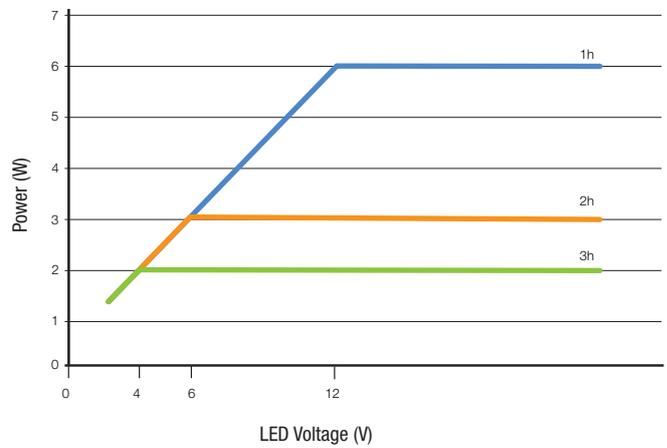
P= Inverter rated power (in the 1h version = 6W)  
 Fn= Rated luminaire flux (for BS100 LED = 7500lm)  
 Pn= Rated LED power (for BS100 LED = 59W)

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



**POWER TREND ACCORDING TO LED VOLTAGE (CODE 19355)**

The output power is subordinated to the maximum output current of 350mA (e.g. with the inverter set to 1h of Autonomy, it will guarantee a 6W output only when used to power an LED unit with Vled >12Volt; below this voltage, the power is reduced as shown in the graph.



LG

Autotest/Centraltest

W	Order code	Description	Control	Version	Autonomy	Battery	Max Absorption W	Pack
6	19355	INVERTER FULL LED LG 6W 55V 123h	AT/LG	SA/SE	1/2/3h	NiCd 7.2V 1.7Ah	2	1/12
8	19372	INVERTER FULL LED LG 8W 55V 1-2-3h	AT/LG	SA/SE	1/2/3h	NiCd 7.2V 2.2Ah	2	1/12

# LED inverter EXTREME



## GENERAL CHARACTERISTICS

**Max. output power\*** 15W

**Power supply** 230Vac 50Hz

**Operation** SA (Maintained),  
RM (rest mode with optional control device, code 12101)

**Standard** EN 61347-2-7, EN 61347-2-13,  
EN 61347-1, EN 62034

**Protection grade** IP20 (depending on the luminaire in which it is installed), IP65 (with additional housing)

**Autonomy\*** 45 min, 1h, 2h, 3h, 8h

**Charging time\*\*:** **with LTO battery** 12h  
**with LiFe battery** 24h

**Output voltage** 3V - 55V

**Peak output current** 500mA

**Working temp.** -20° ÷ + 50°C (with LTO battery)  
-10° ÷ + 60°C (with LiFe battery)

**Charging current** 105mA

**Status LED** Bi-color

**Auto teststart** Compatible with test button in the AT setup

**Body** Polycarbonate

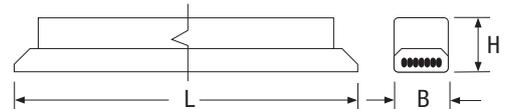
\* With the Autoripara battery it is possible to double the Autonomy while maintaining a power of 15W for 1h and 30min

\*\* The time refers to the battery included with the luminaire. The charging time doubles when the Autoripara battery is used

An electronic emergency lighting power supply unit used to switch on LED modules. The Autonomy does not depend on the lamp and can be set to 1 hour, 2 hours, 3 hours and 8 hours.

The output current control, with PWM modulation, with constant peak current, allows to operate the LED module in the best way avoiding any distortion in the luminous flux and colour temperature of the LEDs. Maximum versatility for an LED inverter. Self-adaptive output voltage with automatic load detection. Output power independent of the connected LED module. The power from the driver and the LED circuit are disconnected by relay, turning the Beghelli LED Inverter into a universal product compatible with all drivers. If the BUS does not reach it, the LG version also comes with an automatic self-diagnostic program (Autotest).

Available in versions with LTO battery (10-year warranty) and LiFe battery (5-year warranty) for use in thermally extreme environments: -20÷+50°C for inverter with LTO battery and -10 ÷+60°C for inverter with LiFe battery. An additional (Autoripara) battery is available and can be used to double the Autonomy while keeping the power unchanged; with this battery, it is possible to power an emergency lighting luminaire to 15W for 1h 30min.



	Battery Dimensions Inverter (mm)			Dimensioni batteria (mm)			Weight max kg
	L	B	H	L	B	H	
LTO	232	30	26	198	37	19	0.3
LiFe	232	30	26	132	37	19	0.3

## Accessories IP65



IP	Dimensions Inverter (mm)			Weight max kg
	L	B	H	
65	301	139	55	0.5

## Accessories

to be ordered separately

Order code	Description
19375	LED INVERTER LGFM MODULE
19376	LED INVERTER IP65 HOUSING
RA07**	AUTORIPARA BATTERY LTO 14.4V 1.2Ah
RA08**	AUTORIPARA Autonomy 12.8V 1.5Ah

\*\* Each Inverter is equipped with a battery.  
To activate the Autoripara system and features, please order the Autoripara battery.

### EXAMPLE OF FLUX CALCULATION FOR BS 100 LED (SMART DRIVER)

The LED Inverter is able to guarantee the maximum lighting performance that the luminaire on which it is installed can achieve. Below is the calculation method and an example for determining the Rated Flux in emergency mode

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

P= Inverter rated power (in the 1h version = 10W)  
 F<sub>n</sub>= Rated luminaire flux (for BS100 LED = 7500lm)  
 P<sub>n</sub>= Rated LED power (for BS100 LED = 59W)

Emergency lighting flux: 1271lm

With Autoripara Battery:

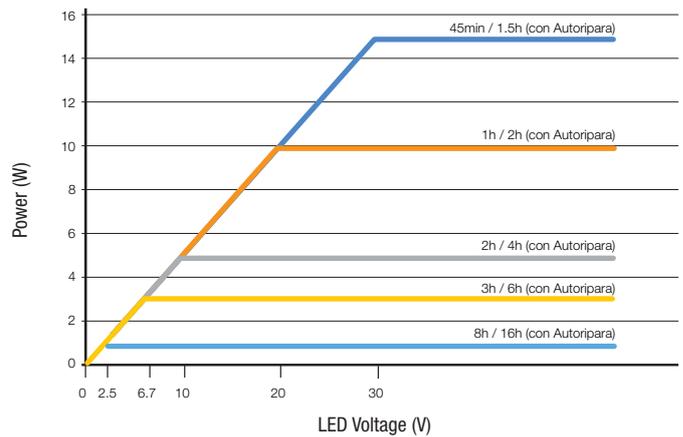
P = Inverter rated power (in the 1.5h version = 15W)  
 F<sub>n</sub>= Rated luminaire flux (for BS100 LED = 7500lm)  
 P<sub>n</sub>= Rated LED power (for BS100 LED = 59W)

Emergency lighting flux: 1906lm



### POWER TREND ACCORDING TO LED VOLTAGE

The output power is subordinated to the maximum output current of 500mA (e.g. with the inverter set to 1h of Autonomy, it will guarantee a 10W output only when used to power an LED unit with V<sub>led</sub>>20V; below this voltage, the power is reduced as shown in the graph.



## LOGICA Ultimate

W	Order code	Description	Control	Version	Autonomy	Autonomy with Autoripara Battery	Battery	Absorption max W	Pack
15*	<b>19390</b>	INVERTER EXT AT/LG AR 15W 55V LTO	AT/LG	SA/SE	0,75/1/2/3/8h	1,5/2/4/6/16h	LTO 14,4V 1,2Ah	2	1/12

\* A power of 15W is obtained by setting the Autonomy to a minimum: 45min or 1h and 30m with Autoripara battery

## LG

W	Order code	Description	Control	Version	Autonomy	Autonomy with Autoripara Battery	Battery	Absorption max W	Pack
15*	<b>19391</b>	INVERTER EXT AT/LG AR 15W 55V LIFE	AT/LG	SA/SE	0,75/1/2/3/8h	1,5/2/4/6/16h	LiFe 12,8V 1,5Ah	2	1/12

\* A power of 15W is obtained by setting the Autonomy to a minimum: 45min or 1h and 30m with Autoripara battery



Autotest devices prepared for connection to the Cablecom control unit that activates the centralised diagnostic control system (CT)



Stand-alone quick connect Plug & Light inverter with built-in battery for quick and easy installation in full compliance with the safety requirements without altering the performance of the luminaire



With the Beghelli Cablecom APP you can interact directly with each individual emergency lamp by one-way optical communication.

You will, therefore, be able to modify the configuration parameters of each individual luminaire, start diagnostic tests and run other advanced functions.



Luminaire intended for use in potentially explosive atmospheres, in the presence of flammable dust or explosive substances, according to the ATEX Directive



Degree of impact protection of the luminaire in accordance with the test methods (According to EN 50102)



Optical technology for direct luminaire programming and control. With the accessories LG Module code 15036 and LGFM Module code 15037, the luminaire switches to CT Centralised Diagnostics



Degree of protection from external factors (According to CEI EN 60598-1)



Product with a very high luminous flux, with an indication of the maximum available range value



Logica/AT series luminaires equipped with both long life Titanium battery (10 years) and Autoripara technology.

Allow reaching unprecedented autonomy and luminous flux values (over 2000lm)



Luminaire with residual energy greater than normal emergency operation. This energy, called Overtime, will be modulated to maintain the function up to 10 hours of Autonomy



Equipped with Titanium Battery, latest generation Titanium Nanostructures (LTO) batteries, long life and fast charging, up to 80% in 2 hours



Luminaire that can be fitted with the Ice Pack accessory, specifically designed to maintain the battery temperature high in low-temperature environments (up to -40°C)



Autotest Ripara safety technology: it doubles the Flux or the Autonomy and ensures the operation of the luminaire even in the event of a battery failure, thanks to the presence of the secondary "RIPARA" battery



Luminaire suitable for pass-through wiring for Ø 2.5mm cables, smooth and corrugated Ø16-20mm conduits



Products with 5 or 10-year warranty extensions on all parts, including the battery.

Please refer to the general terms and conditions of sale for the application.

# Emergency Lighting

## Symbols and approvals

TR	Self-powered luminaires without diagnostics	Version SE	Emergency luminaires for non-maintained lighting
AT	Self-powered devices with local diagnostics, AUTOTEST series	Version SA	Emergency luminaires for maintained lighting
AR	Self-powered devices with local diagnostics, AUTORIPARA series		Luminaire suitable for safety signs according to UNI EN 1838. DV (distance of visibility): see the dimension table in the TECHNICAL DATA SHEETS
BCS	Battery Control System, battery malfunction reporting system with multicolour LED in accordance with Standard CEI EN 60598-2-22		Luminaires with class II insulation level. Luminaires without this symbol are to be considered Class I
LG	Self-powered devices with local diagnostics and remote control, LOGICA series		Luminaires particularly resistant to UV radiation, suitable for direct exposure to sunlight
LGFM	Self-powered devices with local diagnostics and remote control, LOGICA FM series		Luminaires particularly resistant to UV radiation and mineral oil aggression
LOGICA 24	Centralised safety system and luminaires, SOCCORLOGICA series		It indicates the temperature of the incandescent filament (EN 60598-1)
LOGICA 230	Low-voltage centralised safety system and LOGICA 24 luminaires (please check availability by contacting Beghelli's sales network)		
HT	Emergency lighting luminaire with centralised power supply system, SA/DC power supply voltage		

# General Terms and Conditions of Sale

## 1. ORDERS - FINALISATION OF AGREEMENTS

Product purchase orders shall be formulated in writing. Order placement is deemed irrevocable

All collaboration programs, orders, work orders and agreements are considered finalised by the written or verbal confirmation of the Seller or, however, as soon as the invoicing and/or delivery of the ordered products is initiated.

## 2. VARIANTS AND MODIFICATIONS

After order finalisation, any modification or addition to the content and conditions of the order shall be valid and will become effective only after the Buyer receives a confirmation variant from the Seller. The text of the Seller's confirmation or confirmation variant shall prevail over any other document.

If the Buyer does not intend to accept the conditions that differ from his/her order, he/she must inform the Seller within 20 (twenty) days from the date of confirmation; otherwise, the confirmation variant will be considered fully accepted.

## 3. METHOD OF ACCEPTANCE

The Seller shall not be held liable for any unaccepted orders or for any failed or delayed delivery of the products part thereof. The acceptance and the execution of orders are specifically subordinated to the availability of the ordered products as well as to the absence of any circumstances that may affect the availability and the timeliness of delivery of the same.

## 4. TERMS OF DELIVERY

The delivery terms communicated by the Seller are purely indicative.

Delivery terms expressed in days are normally counted in working days.

Any changes to the delivery terms requested by the Buyer must be first accepted in writing by the Seller. Any delay in deliveries, as well as any interruption and/or total or partial suspension of supplies, even if not due to force majeure and/or accidental circumstances, will not entitle the Buyer to compensation for damages and/or to any other kind of indemnity or interest, except for the sole right to cancel the order, provided that the Seller is notified in advance, with at least thirty days before the day of receipt of the registered letter with acknowledgement of receipt sent by the Buyer.

## 5. FORCE MAJEURE

Below is an indicative, non-exhaustive list, of situations that are considered cases of force majeure:

strikes, lockouts, turmoil, labour conflicts, fires, natural disasters, impossibility of supplying products, interruptions or difficulties in transport, delays of shipment, lack of raw materials, government acts, authority measures, contractual non-fulfilment by suppliers and, in general, any unforeseeable event that is outside the reasonable control of the Seller. In all such cases, as well as in the event of any accidental circumstances, the Seller reserves the right to suspend and/or delay the delivery of the products and even cancel the orders, even if already confirmed; this will not entitle the Buyer to compensation for damages and/or to any other kind of indemnity, including those for direct, indirect and consequential loss.

## 6. DELIVERY - TRANSPORT

The goods always travel at the risk and danger of the Buyer, even if delivered carriage paid and/or using a vehicle of the Seller; therefore, the Seller will not accept disputes for any product breakage and/or tampering.

The delivery of the products is intended to be carried out at the Seller's headquarters in Monteveglio - Valsamoggia (Bologna) or at third party warehouses with which the Seller has entered into special agreements ("Ex works" condition - Incoterms 2010).

Transport costs are borne by the Buyer. The Seller does not accept returns.

## 7. COMPLAINTS - PRODUCT REPLACEMENT

Any requests for replacement and complaints shall be handled by applying the safeguards provided by the applicable legislation in relation to the specific type of customer, professional operator or consumer. Upon product receipt, the Buyer must check its condition, the quantity delivered and its compliance with the delivery note. Any complaints concerning product quality, quantity or type shall be submitted in writing within 8 (eight) days from the date of receipt of the goods. After this period, without prejudice to the warranty conditions provided for the individual products, no claim can be made regarding the material and quality of the goods, or their condition in general. The Buyer may not, under any circumstances, return the products without the prior written authorisation of the Seller, nor delay and/or suspend the payment of invoices in whole or in part, not even in the case of complaints. If, in the opinion of the Seller, the claim is justified and has been filed within the warranty terms stated in the booklets accompanying the individual products, the obligation of the latter is limited only to the replacement of the nonconforming product in accordance with the delivery terms established for the first delivery. It is, therefore, excluded any right of the Buyer to cancel the order or to obtain any compensation for expenses and/or damages. The right to replace the contested product shall lapse if the product is not diligently stored, kept at the disposal of the Seller, and returned immediately to the place determined by the Seller.

## 8. APPLICATION OF WARRANTY

The warranty applies only to faults and/or defects in the standard of the product in relation to the terms and conditions indicated in the declared and/or agreed technical specifications or in case of premature breakage of one of its parts.

The warranty period is 4 years for products marked 4G (on all parts, including batteries), 5 years for products marked 5G (on all parts, excluding lamps) and, in general, the number of years indicated in conjunction with the letter G (e.g.: 10 years for products: 10 G).

For products not marked 10G, 5G, 4G or 3G, the normal legal requirements shall apply.

The warranty does not apply in case of tampering, to defects caused by accidental damage of any kind, including during transport and installation, in case of improper use or use in disagreement with the product specifications, in case of negligence in use and

maintenance, errors in installation or connection, and installation performed by unqualified personnel or without respecting the state-of-the-art standards.

Unless otherwise required by applicable law, the warranty is limited only to the replacement/repair of nonconforming products or parts, according to the delivery terms of the first delivery.

All work performed under warranty by the Seller shall be subject to observance of the payment conditions by the Buyer.

## 9. PRICES

The prices indicated in the Seller's price lists are not binding; therefore, the Seller reserves the right to modify them until the time of delivery of the products.

All prices are exclusive of VAT and any other tax charges.

## 10. PAYMENTS

All payments shall be made, within the terms and in the manner indicated by the Seller, to its headquarters in Monteveglio - Valsamoggia (Bologna) or to the appointed person authorised in writing by the Seller. In case of delay in payment, the defaulting buyer will be obliged to pay the Seller interests on late payment from the date of expiry of the contractual period until settlement, to the extent provided for in Legislative Decree 231/2002, apart from any compensation for any further damages

incurred. Failure to comply with the payment terms by the Buyer will give the Seller the right to terminate the corresponding supply contract with immediate effect and to suspend the delivery of all products ordered without the need for any communication, with the consequent right of the Seller to demand the immediate payment of the entire credit as well as to claim compensation for the damages incurred.

In case of non-fulfilment and/or worsening of the patrimonial conditions of the Buyer to a degree that may jeopardise the collection of the credit by the Seller, as well as in the event of prolonged delay in payments and/or high total debt exposure (also due to previous uncollected sales), the Seller reserves the right to apply the provisions of art. 1460 and 1461 CC, undertake appropriate precautionary actions and resort to any other form of self-protection permitted; it is further agreed that in such cases the Seller may suspend any and all supplies.

## 11. LIEN AGREEMENT

The products sold are subject to a lien agreement; therefore, the Seller will retain possession of the goods sold until their price is paid in full.

The Buyer, therefore, undertakes to inform third parties of the existence and effectiveness of this Lien Agreement, as well as to safeguard the Seller's rights deriving from the same.

## 12. SAFEGUARDING — DISPUTES AND JURISDICTION

The invalidity or unenforceability of any of the clauses contained in these general conditions of sale shall not affect, or detract from the validity and enforceability of the other provisions; the Seller and the Buyer undertake to replace any clauses declared ineffective and/or null, or impracticable, with other provisions having similar effects.

For any dispute or contestation relating to the interpretation, validity and execution of the order or, in any case, concerning the contracts to which these general conditions of sale apply shall be governed by the Italian Law.

The Forum of Bologna shall have exclusive jurisdiction.

# Product safety and European Directives

## PRODUCT SAFETY AND EUROPEAN DIRECTIVES

Beghelli products are manufactured according to the state-of-the-art standards concerning safety and quality and will not affect, even when used under foreseeable overload conditions, the safety of persons, pets and property, on condition that they are correctly installed and used according to their intended purpose in the recommended environmental conditions and subject to proper maintenance by qualified personnel.

To the extent applicable, the products shall be manufactured in accordance with the requirements of Community Directives 2014/35/EU, 2014/30/EU, 2014/53/EU, 2014/30/EU, 2009/125/CE, 2001/65/CE.

The CE marking affixed to the product and/or packaging and/or any warnings of use accompanying the product attest to the standard of the product with the aforementioned Directives. Beghelli has its own Technical Archive, available to the competent authorities for possible inspections, containing documentation demonstrating that the product has been examined to assess its compliance.

Products that do not fall within the scope of the above-mentioned EC Directives comply with the quality standards laid down by the regulations in force and by Directive 2001/95/CE

("General Product Safety Directive"), transposed by Legislative Decree No. 172/2004.

The data contained in this catalogue may be subject to change without notice.

The indications, dimensions, drawings and photos of the products and components are given for informational purposes only and may be modified without prior notice, as they do not constitute pre-contractual information. All products intended to be connected to the mains shall be installed in compliance with the installation standards in force in the country of use, observing the information contained in the Catalogue and/or the relevant instructions supplied with the product itself.

Catalogues are available on the website [www.beghelli.it](http://www.beghelli.it) or can be requested from: Beghelli S.p.A. - Sales Department - Via Mozzeghine, 13/15 - Loc. Monteveglio - 40053 Valsamoggia - Bologna

# Environmental protection

## WEEE DIRECTIVE 2012/19/UE

The quantities of waste from electrical and electronic equipment (WEEE) are rapidly increasing; most of the light sources are included in this category.

The main aim of the directive is to prevent WEEE from being discarded to landfills or incinerators at the end of their life, thereby causing a further serious environmental impact.

Directive 2012/19/UE, therefore, sought to induce a control mechanism which provides for a controlled end-of-life management of the device by giving priority to its reuse or recycling. In addition, the legislative mechanism promotes design and production concepts that make it easier to dispose of the products in terms of both their disassembly and their materials.

All supply chain participants are invited to make their own contribution, some with regard to the economic aspects, some in terms of activity, so that the spirit of the directive is respected (and the environment is protected).

In Italy, the Directive has been transposed by Legislative Decree No. 49 of 14 March 2014.

## THESE ARE THE MAIN OBLIGATIONS FORESEEN

The manufacturer (understood in a broad sense and, therefore, essentially as the person who affixes his own brand on the goods and who imports them from third countries) is responsible for the costs of disposing of their products at the end of their life.

The consumer is required to guarantee an intelligent management of the product at the end of its life by sending it to a specially equipped site, a point of sale or by observing the instructions provided by the manufacturer.

Beghelli, always sensitive to environmental issues, is one of the founding members of the ECOLIGHT consortium.

Choosing products from companies that have joined voluntary consortia for the recovery and recycling of goods is the responsible and ecologically correct choice to protect the environment and our future.

Products falling within the scope of the WEEE Directive shall be marked with the crossed-out bin symbol shown on the right.



## ROHS DIRECTIVE 2011/65/UE

In order to facilitate the recovery and recycling of electrical equipment and to prevent hazardous substances from accumulating into the environment, the European Community has enacted the ROHS Directive. Essentially, this Directive states that:

Without prejudice to Annex 3, the placing on the market of new electrical and electronic equipment falling within the categories identified in Annex 1 containing lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ether (PBDE) in excess of the value indicated in Annex 2, shall be prohibited.

In Italy, the Directive has been transposed by Legislative Decree No. 27 of 4 March 2014.

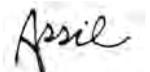
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