



DESCRIPTION

The EXPERT LED ceiling light is the best solution for your cold room's emergency lighting. The use of LED technology, the high transparency diffuser and the careful management of energy consumption guarantee the best performance in terms of light flow and battery life. The driver allows you to customize EXPERT LED EMERGENCY as needed: in always on mode (SA) for continuous illumination of escape routes or in emergency mode (SE) for activation only without power supply. The internal diagnostic function allows to control in real time the battery state (installed outside the cold room). The modern and thin design ensures the minimum space requirements inside the cold room.

APPLICATIONS

- Emergency lighting of cold rooms at negative or positive temperatures (SE).
- Continuous lighting of escape routes in cold rooms at negative or positive temperatures (SA).

PRINCIPAL CHARACTERISTICS

- Instant start, without waiting time, even at low temperatures.
- External driver with integrated battery, specially designed to maximize battery life in without power supply.
- Led power supply status and battery status inside the lamp
- Configurable in always on mode (SA) or emergency mode (SE).
- Symmetrical lighting suitable for installation on a wall or ceiling.
- Particular resistance to UV radiation.
- Energy saving compared with fluorescent solutions.
- Reduced maintenance costs due to the LED's long life.
- Easy installation.
- Thin design.
- IP 65 protection rating (lamp).
- High brightness.
- Supply circuit designed to minimize the heat generated by the light.
- RG0 (Risk Group).

MODELS

PEGO CODE	DESCRIPTION
200LEDEM	400 lumen (emergency mode, SE), 800 lumen (always on, SA), 7.5 W, length 406 mm. Composed of 200LEDEM-L and 200LEDEM-D.
200LEDBATT	Internal battery

Conformity with EEC low voltage directives, electromagnetic compatibility and EC mark EN 60598-1:2015; EN 60598-2-1:1979; EN 61347-1:2015; EN 61347-2-7:2012; EN 61347-2-13:2014; EN 62471:2008; EN 55015:2013; EN 61547:2009.

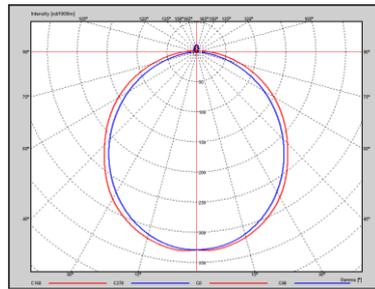
SYMBOLS

	Disposal of the product: The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.	SELV	Safety extra-low voltage
	Class II appliance (driver)		Class III appliance (lamp)
	Independent electronic transformer		Battery-powered controlgear for emergency lamps

LAMP TECHNICAL DATA (Code: 200LEDM-L)

Power voltage	
Power voltage	23 Vdc SELV
Absorbed power	5.1 W
Driver	External. Connect only to 200LEDEM -D.
Environment conditions	
Operating temperature	-30 ÷ 35 °C; < 90% RH Not condensing
Storage temperature	-20 ÷ 35 °C; < 90% RH Not condensing
Unsuitable operating environments	Environments with strong vibrations or impacts; aggressive, polluted or corrosive atmospheres, exposure to direct solar radiation.
General characteristics	
Lamp	LED, integrated, non-replaceable
Luminous flux	800 lumen
Color temperature	5700 K
Color Rendering Index	> 80
Connection lamp - driver	Pre-wired cable (100 cm), not extendable, replaceable only by the manufacturer. For connection, use terminals that comply with EN 60998-2-1 or EN 60998-2-2.
Installation	Single; ceiling mounting with screws
Warm-up time (60%)	Instant on
Diagnostic	Integrated signalling led (red and green)
Dimensional, insulation and mechanical characteristics	
Dimensions	406 x 93 x 36 mm
Weight	0.35 Kg
Protection rating	IP65
Casing	Self-extinguishing V0 polycarbonate
Insulation type	Class III

PHOTOMETRY



DIAGNOSTIC

The lamp incorporates two LEDs for signalling the state of charge or any anomalies, with the following code:

GREEN LED

- steady: power supply on;
- flashing: power supply on and battery charging;
- off: power supply off.

RED LED

- steady: damaged / absent battery;
- flashing: battery low level;
- off: battery ok, no errors.

FIXING PRESCRIPTIONS

Screws not supplied. Use proper fasteners according to the type of wall. The ceiling light must be not flexed, to ensure proper sealing of the gaskets.

MAINTENANCE

The LEDs are installed permanently and can't be replaced.

Do not use harsh detergents, chemicals or abrasives as they may damage the plastic. Don't use jets of water or other liquid. Clean only with a damp cloth.

DRIVER TECHNICAL DATA (Code: 200LEDM-D)

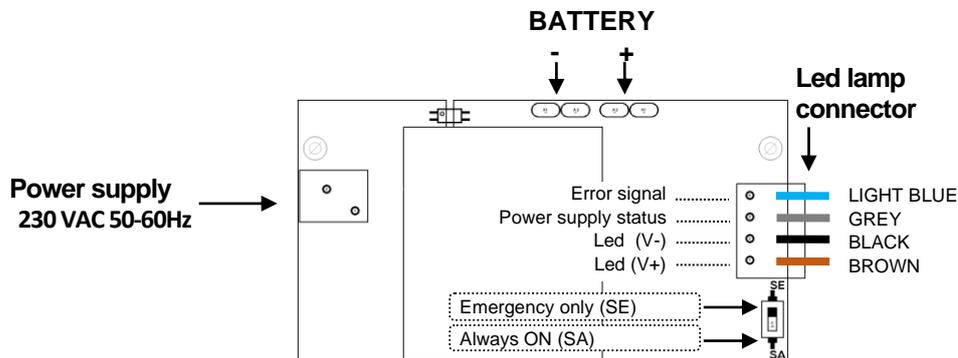
Power voltage	
Power voltage	230 V~ 50-60 Hz
Absorbed power	7.5 W
Environment conditions	
Operating temperature	+5 ÷ +35 °C; < 90% RH Not condensing
Storage temperature	-20 ÷ 35 °C; < 90% RH Not condensing
Unsuitable operating environments	Environments with strong vibrations or impacts; aggressive, polluted or corrosive atmospheres, exposure to direct solar radiation, explosive atmospheres or flammable gas.
General characteristics	
Installation	Junction box, mount with screw
Turn-on time	< 0,2 s
Number of on-off cycles	100.000
Diagnostic, power and battery status	Signals available from terminal block
Output	SELV, Pout = 5.1 W, Iout = 0.2 A, Uout (max) = 38 V 100 % (SA) 50 % (SE)
Load type	Connect only to 200LEDEM -L
Protection against battery connection inversion	Yes
Double or reinforced insulation between power circuits and battery circuits (SELV circuits). Controlgear is not suitable for use with battery supply having a trickle or intermittent recharging circuit	
Battery	
Code	100APEBATT (Pego)
Type	12 VDC Ni-MH 1300 mAh, replaceable
Full charge time	10 hours
Autonomy with fully charged battery	> 3 hours
Maximum current supply	250 mA
Dimensional, insulation and mechanical characteristics	
Dimensions	130 x 90 x 65 mm
Weight	0.35 Kg
Protection rating	IP55
Casing	Polymer self-extinguishing GW 650 °C
Insulation type	Class II

ELECTRICAL CONNECTIONS AND CONFIGURATION OPERATING MODE

Connect to an unswitched mains supply.

Set operating mode switch (see figure below) based on application type:

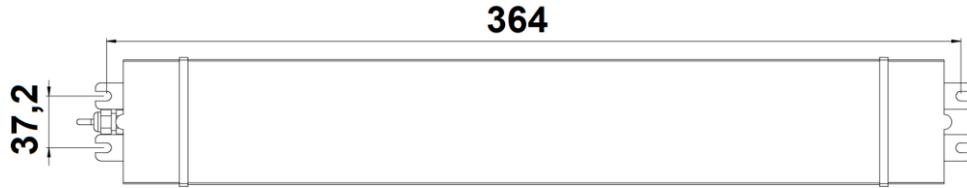
- SE: emergency only; with connected battery the lamp turn on only without power supply
- SA: always on; the lamp is always turned on and it keeps a reduced light (50%) in event of power supply absence.



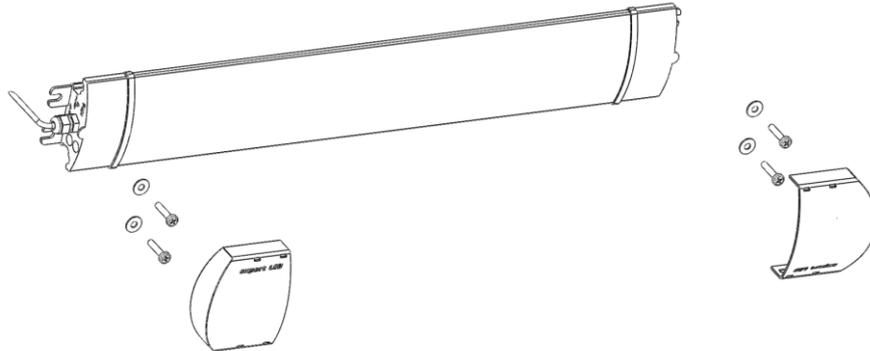
ELECTRICAL PRESCRIPTIONS

All conductors used in the cabling must be appropriately sized to support the load which they must provide. Use H05RN-F or H07RN-F, 2x1 mm² as power cable.

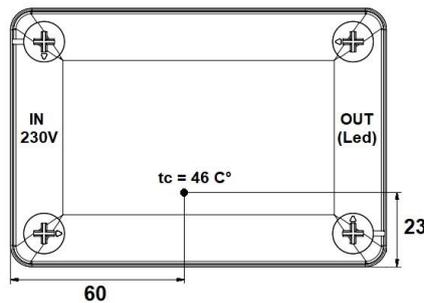
Lamp drill template (measures in mm)



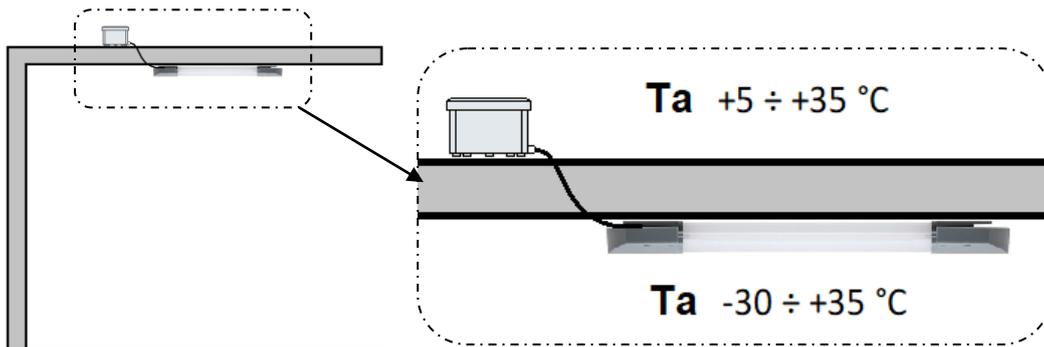
Lamp fixing



tc point (driver)



Installation



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