

EMI20C Emergency Twin-head

Mounting instruction

Indoor
Use
Only

IEC
60598-2-22

IP20

RoHS

Type Des.	Input Power	Emergency Power	Lumen	Battery	Function	Voltage	Frequency	Class	
EMI20C Emergency Twin-head	0.8W	1.1W	150lm	LiFePO ₄ 3.2V 1.5Ah	Self-test	220-240V~	50/60Hz	II	0.85

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ALWAYS SWITCH OFF THE
MAINS SUPPLY BEFORE
INSTALLATION OR SERVICING

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Drill hole in base tray Ø20mm

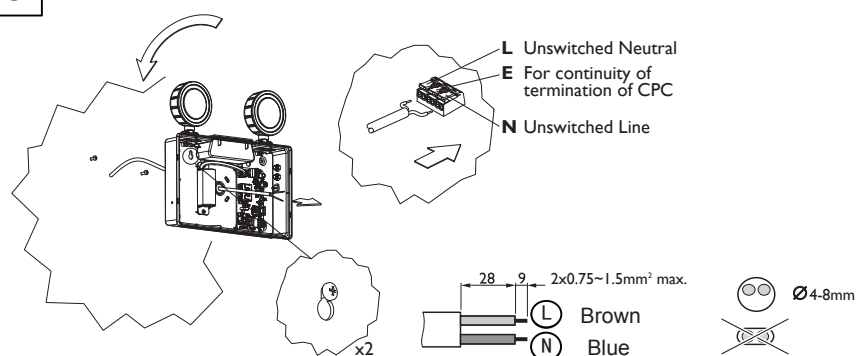
Signify (China) Investment Co., Ltd.
Address: Building No. 9, Lane 888, Tianlin Road, Minhang District, Shanghai, China
China Postal code: 200233



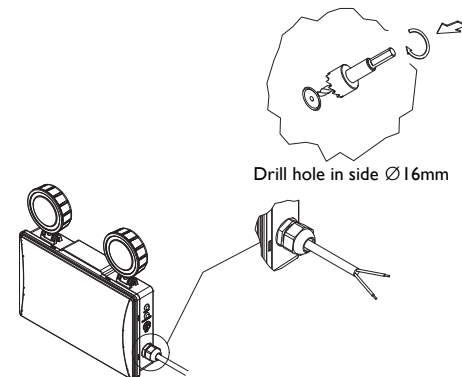
Data subject to change without notice

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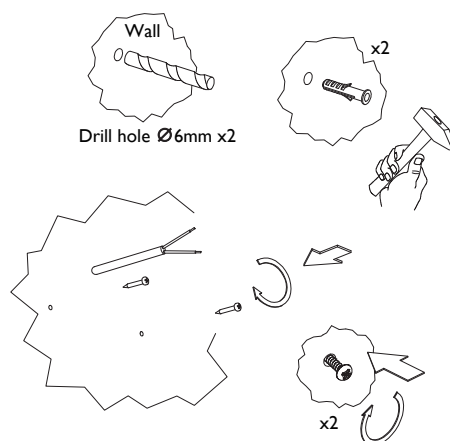
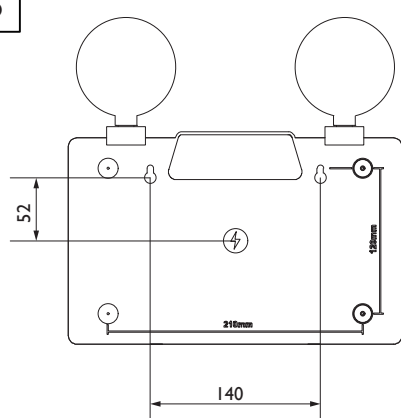
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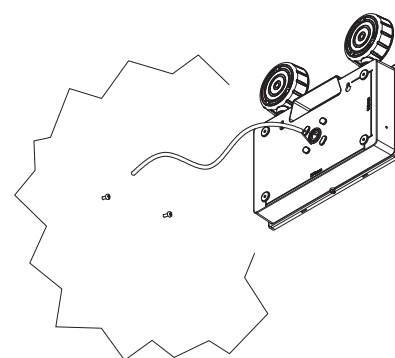
Note: If use side entry, drill Ø16mm hole and apply PG9 cable gland supplied.



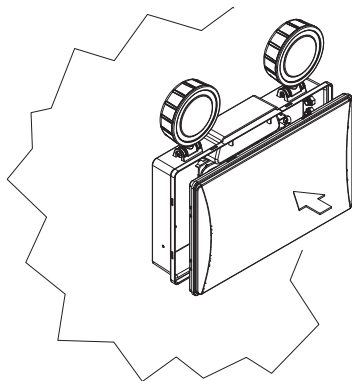
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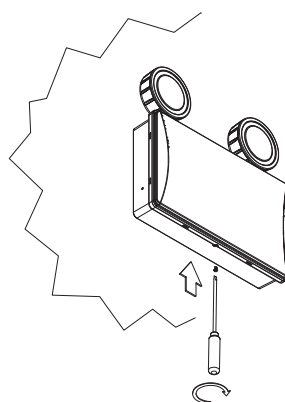
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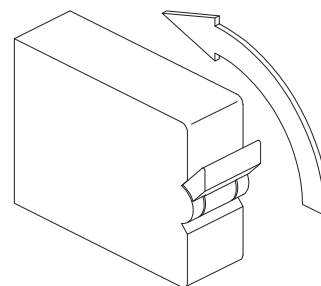


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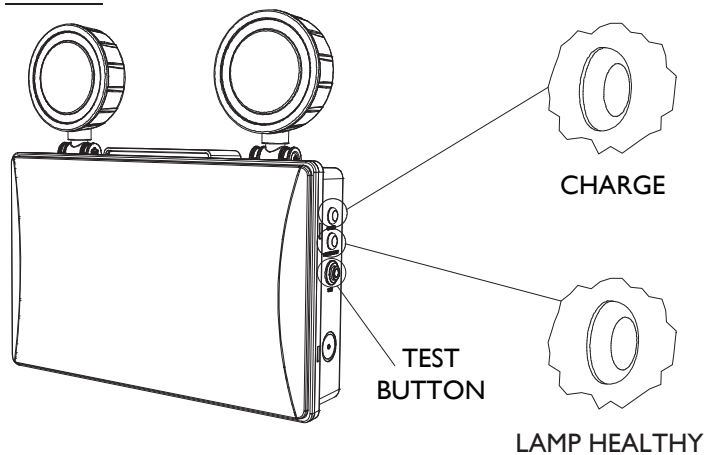


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SWITCH ON THE MAINS SUPPLY
AFTER INSTALLATION OR
SERVICING



Indicator



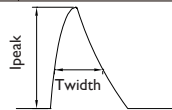
Charge indicator:

Refer to self test program for different status

Lamp healthy indicator:

Indicate light source connection (green light on for normal connection; light off for abnormal connection)

Type Des.	Run Current(A) @220V	Start (Inrush) Current(A) / I _{peak} (A)	Start Current Duration (μ s) / T(@50% of I _{peak}) (μ s)	Touch current or protective conductor current (mA)	MCB Type B 16A Max no. fitting (pcs)	MCB Type C 16A Max no. fitting (pcs)
EM120C Emergency Twin-head	0.02	5.67	100	0.70	240	400



1. For indoor use only.
The luminaire is complied to IEC 60598-1 IEC 60598-2-22.
2. The luminaire must be installed by a qualified electrician and wired in accordance with the latest IEE Electrical regulations or the national requirements.
3. Turn off the power supply before checking, installation, maintenance or moving.
4. Do not switch on before complete installation.
5. The light source and/or controller contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
6. Batteries shall only be replaced by the manufacturer or his service agent or a similar qualified person.
7. Batteries should be replaced when the luminaire no longer meets the 3 hours duration performance.
8. Product mains surge immunity is 0.5/1KV (diff. / comm. mode). To prevent excessive currents and voltages from damaging the device, make sure that the power supply input is equipped with additional protection devices such as surge protectors. For any questions regarding the product's surge protection, please consult the manufacturer's professional.



Please inform yourself about the local waste disposal, separation and collection system for electrical and electronic products and packaging. Please act according to your local rules and do not dispose your old product and packaging with your normal household waste. The correct disposal of the packaging, your product and/or batteries will help prevent potential negative consequences for the environment and human health. Batteries should be disposed separately from the municipal waste stream via designated collection facilities. When disposing a product that contains non-user replaceable batteries, the non-user replaceable batteries shall be removed by a professional.

Testing Record

Product: _____

Location: _____

Installation Date: _____

Month	Functional/Duration	Year 1	Year 2	Year 3	Year 4	Year 5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

EM120C Emergency Twin-head

Specifications For Self Test

EM120C

Function Test









The function test is conducted every month for 3 minutes to check whether the battery connection is abnormal and discharge the battery.

Duration Test

An initial duration test is conducted when the battery is connected to the controller for the first time and connected to mains, but after 24 hours charging.

The yearly duration test is conducted for 3 hours on one day within the 300th day to the 365th day every year. It will also check the connection of battery.

Description corresponding to the color and status of the charge indicator

Charge Indicator Color	Status	On Time (Seconds)	Off Time (Seconds)	Description
Green	 Permanent on	/	/	Normal status when mains connected
	 Slow flash	1s	1s	Duration test running
	 Fast flash	0.2s	0.2s	Function test running
	 Normal flash three times only	0.5s	0.5s	Time reset
Red	 Permanent on	/	/	Battery connection is abnormal or failure
	 Slow flash	1s	1s	Lamp connection is abnormal or failure
	 Fast flash	0.2s	0.2s	Duration failure - the capacity of the battery is decay
Both Off	 Off	/	/	Emergency mode

It should be taken to check connectivity or replace the abnormal battery or lamp

Test button for manual inspection on function test or duration test

Mode of operation

Mode	Description
Press for <2s	Simulate emergency mode.
Press for 3-5s	Start duration test manually. The test can be aborted by pressing off (1-2s). * Must be conducted when the initial duration test finished and after another 24 hours battery charging.
Press for 5-8s	Start Function test manually for 60s. The test can be aborted by pressing off (1-2s).
Press for >10s	Time Reset.

Note:

When the mains is on, the green indicator will be permanent on. It will check the connection of battery and LED module. When the mains is off, no test will perform.

The luminaries which perform the function and duration tests must be connected to the mains supply for at least uninterrupted 24 hours. If the mains is off during these tests, the tests will be postponed for 3 days.

When the fault is corrected, the indicator will only be reset to its normal status after mains reconnected or test switch pressed.

An accuracy of the timing of the test interval is ensured that it has an accuracy of ± 75 s per week. The timing function will be retained through periods of mains supply failure or interruption for up to 7 days.