SPARKELEC™

Electrical and Lighting Products

Distributed By: Sparkelec Pty Ltd
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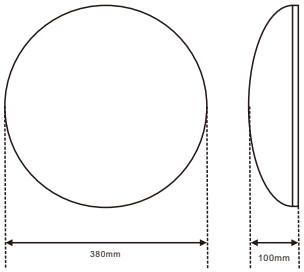
INSTALLATION AND OPERATING INSTRUCTIONS
LED EMERGENCY FITTING(SP-1001 COLLECTION)

APPLICATION

During normal operating conditions, This LED Emergency Oyster should be connected to a Permanent Active Circuit (not a switched active circuit). When mains power supply is available, AC provides power and charges the built-in rechargeable batteries. The fitting is lit up when mains power is available, when mains power fails and/or is disconnected, the fitting is lit up by the battery-operated inverter (DC Mode).

TECHNICAL DATA

1. Input voltage:	220-240V, 50/60Hz
2. AC Power consumption:	24w
3. Charge time:	16 Hours
4. Emergency time:	2 Hours
5. Operation:	Maintained operation
6. Function:	Manual Test Switch & LED Indicator
7. Working temperature:	0℃ to 40℃
8. Battery:	NI-MH Battery
9. Mounting:	Ceiling Mount
10. IP rating:	IP20
11. Material:	Plastic & PMMA
12.Classification:	C0:D25 C90:D25



Series product appearance unified. The functions of each MODEL is similar. Please refer to the following table.

Battery type:
NI-MH:4.8V 1800mAh
Max Ambient temperature:60℃
Installed date:
Manufactured date:
Used date:

PLUG IN BATTERY BEFORE CONNECTING 240V POWER SUPPLY

SP-1001EM/xx* series
Charging mode: Max.3 W 220-240 V 50/60 Hz
Emergency lighting mode: 4.8 V battery,1.7W
Battery supply: 1800 mAh, 4.8 V d.c. Ni-MH.
Cl. II, IP20, ta 0 - +40℃, maintained, 2 hours duration

The "xx" can be DL, WW or CW,
indicating emergency luminaire has different color temperature:
xx=DL: day light xx=WW: warm white xx=CW: cool white
*=sensor function

TECHNICAL INFORMATION

Model No.	Classfication	CCT	Charging Mode	Input Voltage	Charge Time	Discharge Time	Operation	Emergency Mode Battery	DC Power
SP-1001EM/DL	D25	DAYLIGHT	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W
SP-1001EM/WW	D25	WARM WHITE	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W
SP-1001EM/CW	D25	COOL WHITE	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W
SP-1001EM/DL Sensor	D25	DAYLIGHT	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W
SP-1001EM/WW Sensor	D25	WARM WHITE	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W
SP-1001EM/CW Sensor	D25	COOL WHITE	3w	220-240V 50/60Hz	16 Hours	2 Hours	Maintained	NI-MH, 4.8V 1.8Ah	1.7W

SAFETY

This is a mains powered product. Before Installation or maintenance, please make sure power supply is isolated.
If the external flexible cable of this luminaire is damaged, it should only be replaced by a licensed electrician or equivalent qualified person to avoid any safety hazards.
This luminaire is intended only for mounting in locations where the plug and sockets are protected from unauthorised disconnections.

PRECAUTIONS

This product must be only installed by a Licensed Electrician. Please make sure the mains power supply is isolated before commencing installation. Check the unit labels for correct supply voltage and frequency.

If you have installed and connected the fitting as per the instruction contained within this manual and the light fails to work properly, please use the following table as guide to fixing the problem.

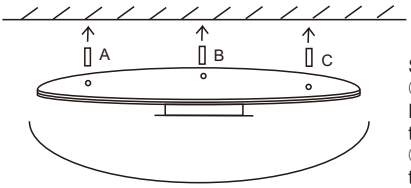
FAULT	POSSIBLE CAUSES
Red LED is not lit	▪ AC Supply is not connected ▪ AC Supply turned off ▪ Battery plug not connected to battery pack
Red LED is lit but the lamp does not light when the test switch is pressed.	▪ Lamp is damaged ▪ Lamp is not inserted properly ▪ Battery pack is damaged
Lamp lights, but only temporarily, when test switch is pressed or when main power supply is turned off.	▪ Battery pack not fully charged ▪ Battery pack is damaged

Test Switch

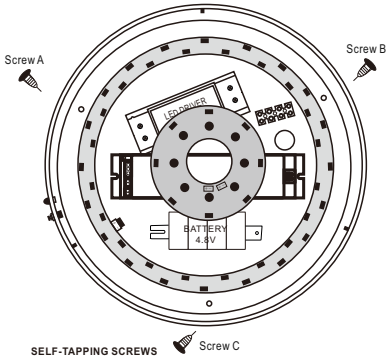
A Test Switch is provided to simulate a supply circuit failure. Press and Hold the test switch, the LED Chip will "Light up" in Emergency Mode, After Releasing the Test Switch, the LED Chip will become "unlit" (back to normal)

INSTALLATION

This light source contained in this luminaire shall only be replaced by a Licensed Electrician ONLY.
When you receive this LED Emergency Oyster. Open the inner box and take off the plastic bag.
Twist the lamp diffuser softly, there are 3 rivets on the lamp base. Please Double Check if Cable Connecting the LED Panel to the LED DRIVER is connected and secured.



STEP 1.
①Select appropriate position on the ceiling.
Make sure the cable could come out from the hole near the terminal block.
②Drill holes on the ceiling for the screw A&B&C , put the rubber plugs A&B&C on the ceiling.



STEP 2. Connect the wiring.

STEP 3. Press the TEST button to check if the lamp is workable:
Once press, you would see the inner LED are lit up and the red indicator is OFF, it means that the light is available.
If not, please check the connection again.

STEP 4. Close the fitting by twisting the diffuser slowly and carefully.

TESTING PRECAUTIONS

When this fitting is permanently connected to the mains supply you will need to charge the battery for 24 Hours. Once the battery is fully charged, you will need to conduct a manual discharge test as per the requirement of AS/NZS 2293. At the time of printing, the standard requires that new fittings operate in emergency mode for at least 2 Hours for their first discharge test.

Further tests are to be carried out at intervals of not more than 6 Months. It is important that you keep records of the initial test and ongoing tests in the building's emergency service log book.

MAINTENANCE

WARNING: Care should be taken when replacing the battery, because this lamp is powered by a battery and an operated inverter when disconnected from the mains supply.

Regular discharge duration to be checked in accordance with emergency lighting regulations.

REPLACING THE LED

The LED is non-replaceable.

REPLACING THE BATTERY

1, Using only the battery recommended on the label found on the surface of the fitting. NO other battery will work in this fitting, other than the type listed.
2, Make sure the mains supply is isolated before commencing the replacement.
3, Remove the diffuser from the lamp. Disconnect the battery from the lamp and if necessary, unscrew or untie the battery from its mounting position.
4, Then connect the new battery with the same specification. Connect the battery plug, place the bracket back to the fitting.
5, Reconnect with the mains supply, check if the fitting works normally.

BATTERY LIFE

The designed lifespan of the battery installed in this product is 2 Years, the battery should be replaced after this time. To maintain the economical life of this product it is required that the battery be discharged and replaced at least once every 6 Months. The battery life can be reduced if the battery is not discharged in accordance with requirements of AS 2293.

Regularly discharging/cutting mains power i.e. During Construction Stage, will SIGNIFICANTLY shorten the battery's lifespan and damage the battery. Product failure as a result from this practice is strictly NOT COVERED UNDER WARRANTY AND WILL AUTOMATICALLY VOID PRODUCT WARRANTY.

Ta 0℃-40℃

N5667

Tested By Nemko

Certified By SAA APPROVALS AS/NZS 2293 CERTIFIED

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