

Installation Instructions

NE-921LED

Outdoor Die-Cast LED Emergency Light with Photosensor

READ PRIOR TO ATTEMPTING INSTALLATION
ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION
INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN

⚠ WARNING - This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition to the National Electric Code and all applicable state and local building codes. The final installation must be approved by the appropriate qualified electrical/building inspector(s). Improper installation may result in a fire or electrical hazard. Be sure the electrical power to the circuit has been disconnected before installing this electrical system.

⚠ AVERTISSEMENT - Cet équipement est destiné à être installé uniquement par du personnel qualifié. L'installation doit être faite en conformité avec l'édition actuelle du Code national de l'électricité et toutes étatiques et locales codes du bâtiment applicables. L'installation finale doit être approuvée par l'inspecteur en électricité / bâtiment qualifié approprié(s). Une mauvaise installation peut entraîner un incendie ou un risque électrique. Soyez sûr de la puissance électrique vers le circuit a été coupée avant l'installation de ce système électrique.

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

USE FLEXIBLE CONDUIT ONLY

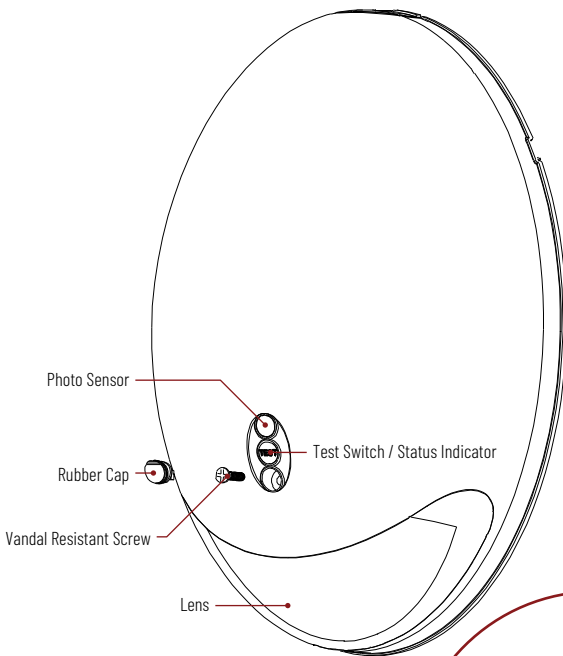
WHEN USING ELECTRICAL EQUIPMENT, SAFETY PRECAUTIONS SHOULD BE TAKEN AS FOLLOWS:

1. Disconnect power at fuse or circuit breaker panel before installing or servicing of the unit.
2. DO NOT Mount in hazardous locations, near gas or electric heaters.
3. DO NOT let power supply cords touch hot surfaces.
4. Servicing should be performed by qualified personnel only.
5. Equipment should be mounted in locations and heights where it will not be readily subject to tampering by unauthorized personnel.
6. The use of accessory equipment not recommended by manufacturer. Use of such equipment may cause unsafe conditions, and will void the unit's warranty. Allow battery to charge for 24 hours before first use.

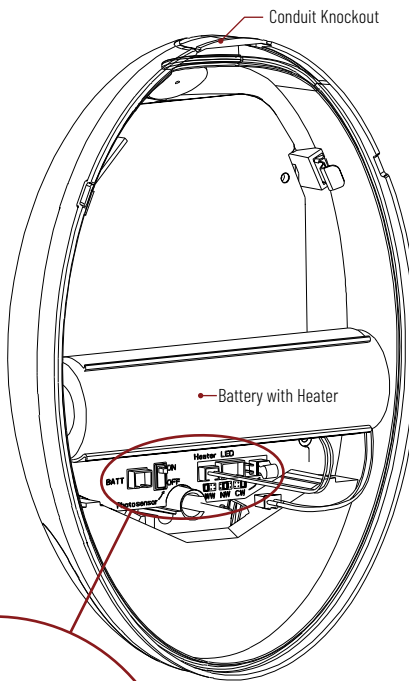
FUNCTION

1. Photo sensor and wall switch functions are only available for general light mode, photo sensor function is factory's default setting. Emergency lighting has none of these functions.
2. In photo sensor mode, if ambient luminance <10 Lux, fixture will be turned on automatically, and if ambient luminance > 30 Lux, fixture will be turned off.
3. In wall switch mode, make a wall switch between 1 and 2.
4. Remove the jumper cable to get non-maintain (emergency only) function.
5. 4000K color temperature is factory's default setting, change the pin jumper position to obtain different color temperature.
6. -30°C - 50°C ambient temperature is factory's default setting.
7. The battery pack assembly contains the battery, heater pad and thermal protection. If necessary, please contact the manufacturer to replace it. If the pack scrapping in further, please separate them.

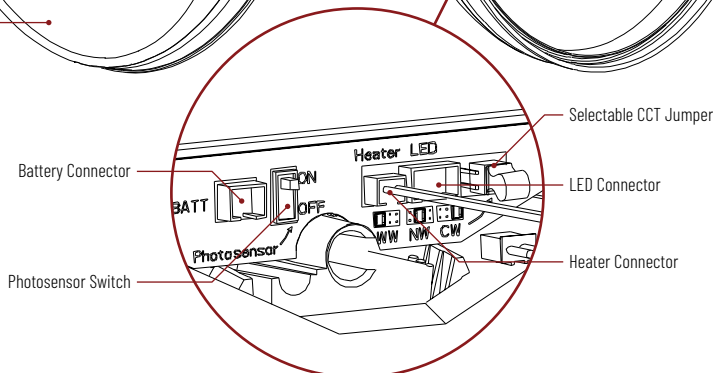
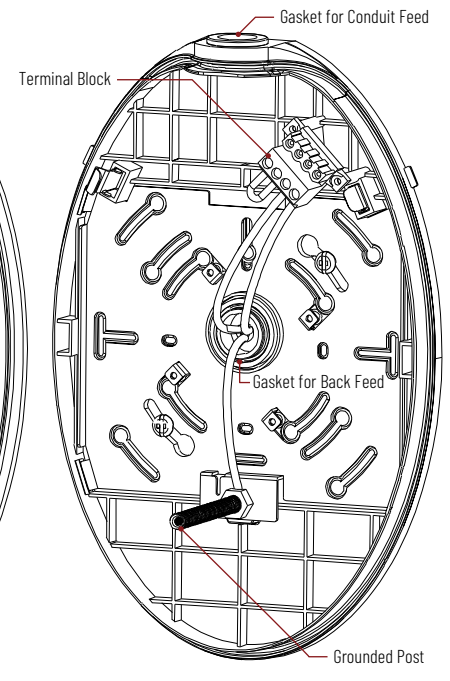
Front Cover (Outside)



Front Cover (Inside)



Back Plate



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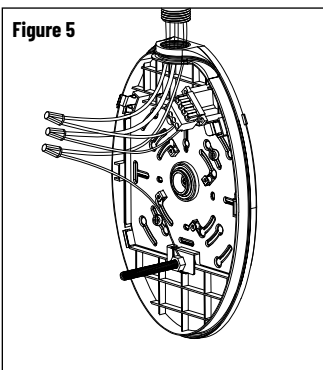
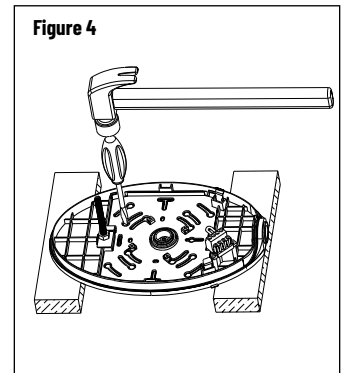
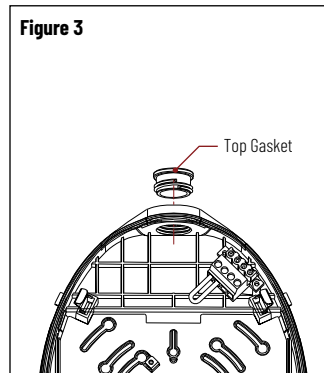
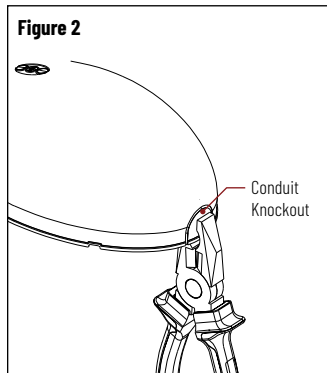
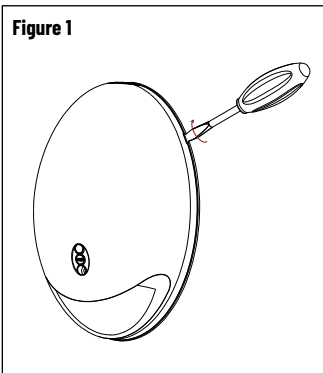
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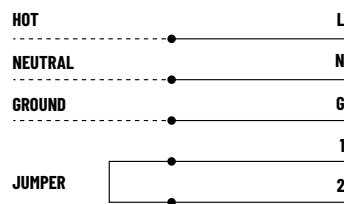
WALL MOUNTED WITH CONDUIT FEED

1. Use a flat blade screwdriver to pry open front cover and back plate. (Figure 1)
2. Take off the conduit knockout from the front cover with pliers, and remove burrs / scraps left inside the fixture. (Figure 2)
3. Remove top gasket from back plate. (Figure 3)
4. Carefully remove desired screw holes on the back plate and mount the back plate to desired location. Do not overtighten screws to ensure back plate does not get deformed. (Figure 4)
5. Attach the conduit to the back plate according to NEC code. (Figure 5)
6. Connect the power supply wires to fixture's wires using wire nuts (included). Connect the white wire to neutral, black wire to hot lead (120-277V) and ground to green wire. (Wiring Diagram)
7. Select the desired color temperature by using the appropriate pins with jumper inside front cover. (Figure 6)
- NOTE:** Luminaire is preset to NW (4000K) and may change in shipping / handling / installation.
8. Connect battery and heater connectors inside front cover. (Figure 7)
9. Apply silicone sealant to all open areas in back plate. (Figure 8)
10. Replace front cover and attach vandal fixing screw with hexagon key (included), then insert the rubber cap to cover the screw. (Figure 9)

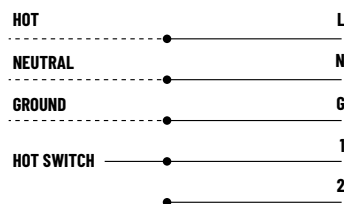


Wiring Diagram

Input Feed without switch



Input Feed with switch



Photosensor switch

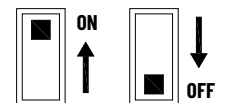
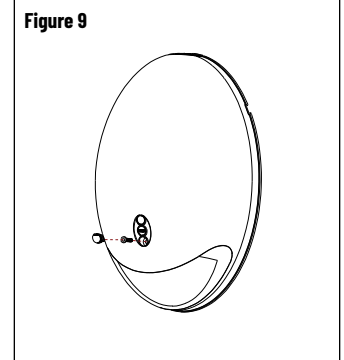
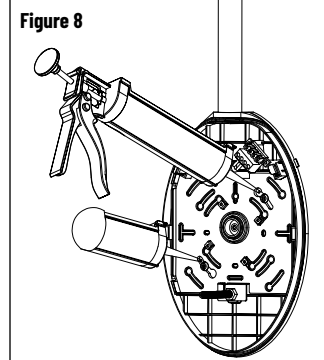
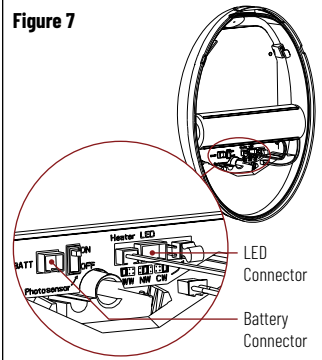
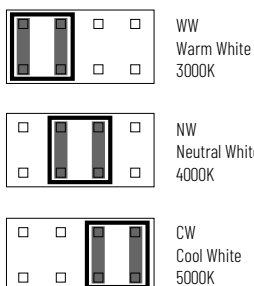


Figure 6 CCT Selection



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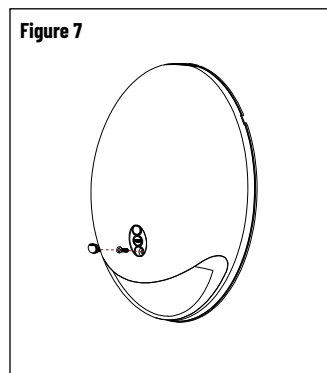
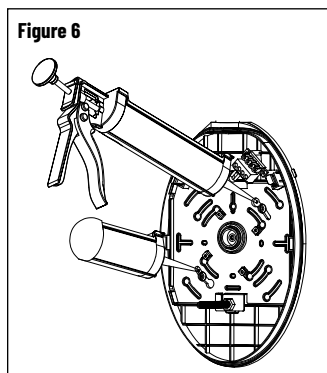
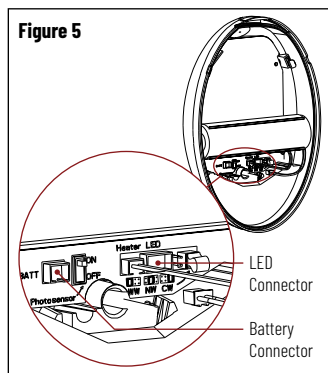
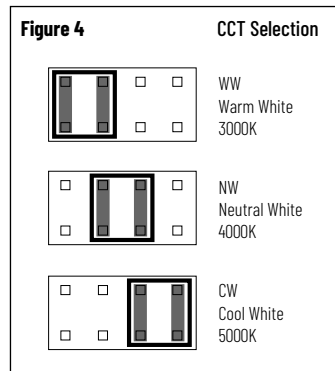
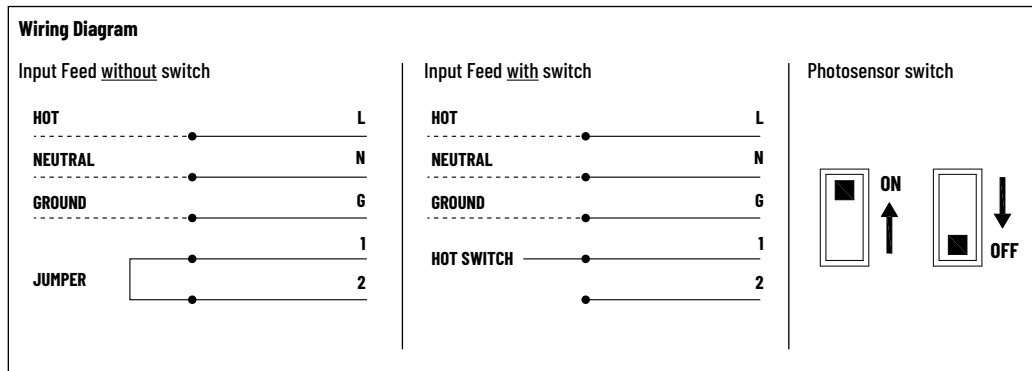
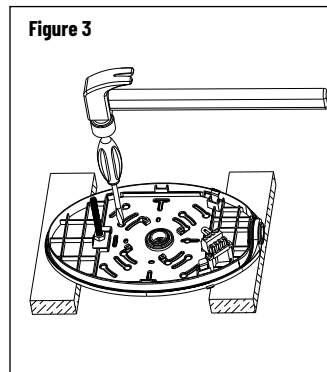
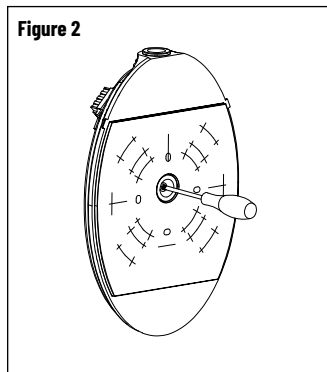
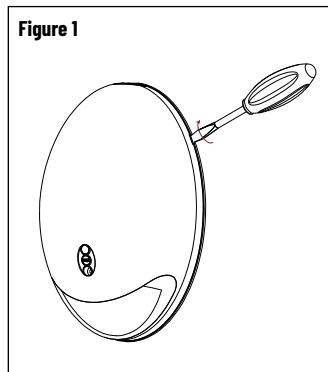
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WALL MOUNTED WITH BACK FEED

1. Use a flat blade screwdriver to pry open front cover and back plate. (Figure 1)
2. Remove gasket from rear of the back plate. (Figure 2)
3. Carefully remove desired screw holes on the back plate and mount to the junction box. Do not overtighten screws to ensure back plate does not get deformed. (Figure 3)
4. Connect the power supply wires to fixture's wires using wire nuts (included). Connect the white wire to neutral, black wire to hot lead (120-277V) and ground to green wire. (Wiring Diagram)
5. Select the desired color temperature by using the appropriate pins with jumper inside front cover. (Figure 4)
NOTE: Luminaire is preset to NW (4000K) and may change in shipping / handling / installation.
6. Connect battery and heater connectors inside front cover. (Figure 5)
7. Apply silicone sealant to all open areas in back plate. (Figure 6)
8. Replace front cover and attach vandal fixing screw with hexagon key (included), then insert the rubber cap to cover the screw. (Figure 7)



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SELF-DIAGNOSTICS INSTRUCTIONS

- When AC power is supplied, the luminaire will automatically initiate self-test and self-diagnostic tests as follows:
 - Verifies battery disconnection, charger board failure every 5 seconds
 - 1 minute self-testing every month
 - 90 minute self-testing every 12 months after installation
- Dual color LED lamp indicator shows the following status:
 - Green color = ON / READY
= Blinking: Testing
 - Red color = Service Alert
 - Service Alert LED Code (Red color LED lamp indicator)

●	One blink, 4 second pause	Battery is not connected
●●	Two blinks, 4 second pause	Battery failure or battery voltage drops below acceptable level
●●●	Three blinks, 4 second pause	Charger board circuit failure
●●●●	Four blinks, 4 second pause	Transfer function failure
●●●●●	Five blinks, 4 second pause	Emergency lamp fault

NOTE: After solving the fault of emergency equipment, please press test button for 2 seconds without releasing to reset. LED indicator will show green when complete.

- Self testing / self diagnostic also have manual test functionality, press test button as follows:

Press test button once	30 seconds discharge test
Press test button twice within 2 seconds	3 minutes discharge test
Press test button 3 times within 2 seconds	30 minutes discharge test
Press test button 4 times within 2 seconds	90 minutes discharge test

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BATTERY STOCK AND RECHARGE GUIDELINE

Emergency fixtures use maintenance free batteries. When a fixture is on the shelf (stored) before installation, all battery types need regular discharge and recharge to avoid battery deterioration. Deterioration can result in permanent capacity loss or complete Battery failure. The manufacturer cannot provide quality warranty for battery if there is lack of proper maintenance before the installation.

The recharge period is always taken from the Manufacture Date written on the battery surface.

Lead-Acid battery:

Shelf life = Recharge Required = 3 months.

Recharge should involve full discharge and recharge to at least 50% rated capacity

Ni-Cad and Ni-MH battery:

Shelf life =Battery Charge Required = 12 months

Battery should recharge to at least 50% rated capacity

LiFePO4 battery:

Shelf life = Recharge Required = 9 months.

Recharge should involve full discharge and recharge to at least 50% rated capacity

Battery discharge and recharge can be operated by the emergency fixture itself and can also be operated by other professional discharge and recharge equipments.

See instructions below:

Battery Type	Operated by EM Fixture	Operated by other equipment
Lead-Acidbattery (Rated 6V battery)	Discharge then Charging battery around 12 hours	Discharge 100% rated capacity, Charge current 0.3A max, constant voltage 7.2-7.35V*12 hours
Ni-Cad and Ni-MH battery	Discharge then Charging battery around 12 hours	Discharge current 0.2CA to 1Vper cell cut off. Charge current 0.1C*12 hours
LiFePO4 battery	Charging battery around 12 hours	Charge current 0.2CA Limit battery voltage 3.365V per cell

Emergency fixture in stock:

When a fixture is on the shelf (stored) before installation, battery must not connect to PCBA to avoid self-discharge, battery must keep disconnect status before installation.

If battery connect to PCBA without charge battery for over 10 days, battery will be deteriorate because of battery self-discharge properties, and cannot recover to original capacity.

Battery Shipping:

We advise that, when shipping batteries (of any type) over long distances, where the battery may be subjected to high temperatures for long periods, it is best practice to not charge the battery above 60% capacity. This practice helps to minimize permanent damage to the battery.

BATTERY SAFETY INFORMATION

Proposed long term storage temperature in 15°C ~25°C, humidity in 45-85% for all battery types.

Lead-Acid battery Handling and storage:

Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials, Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks, and heat.

Ni-cad battery/ Ni-MH battery /LiFePO4 battery:

- Do not damage or remove the external tube
- Never throw out cells in a fire or expose to high temperature
- Do not soak cells in water and seawater
- Do not expose to strong oxidizers
- Do not give a strong mechanical shock or throw down
- Never disassemble modify or deform
- Do not connect the positive terminal to the negative terminal with electrically conductive material. Do not short or install with incorrect polarity
- Avoid direct sunlight high temperature, high humidity and the places where it is exposed to the static electricity