

10" Pictogram Series

Water, Dust & Oil Resistant Industrial Units (Meets Nema 3R Requirements)



WARNING:

Risk of Electrical Shock.

Disconnect Power before Installation.



IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. All servicing should be performed by qualified service personnel.
2. All unused wires must be insulated to prevent shorting.
3. Do not let power supply cords touch hot surfaces.
4. Do not mount near gas or electric heaters.
5. Use caution when handling batteries. Avoid possible shorting.
6. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
7. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
8. Do not use this equipment for other than intended use.
9. Unit to be installed only as per configuration described in this instruction manual.

SAVE THESE INSTRUCTIONS

Installation Instructions

1. Turn off AC power.
2. Route AC circuit wires to electrical box and leave 12" of wire length.
3. Remove the six screws(1) holding the lens(2) on the housing. Open the lens and remove the panels plus diffuser .



CAUTION: If not drilled in the suggested location, you risk damaging the PCBA and wires (see figure 3).

Wall Mount

1. Drill holes to accommodate an appropriate fitting to meet Nema 3R rating where indicated by a center mark on the top of the housing (see figure 3). *You might wish to reinstall the lens(2) temporarily to make sure that there will not be any interference between the fitting and lens once attached.*
2. Install the four plastic mounting brackets(7) (see Fig.1). Use the plastic spacers(6) between the housing and the bracket and tighten using the provided 10-32 x 3/8" screws(8).
3. Install the unit using appropriate screws for the type of wall it is to be installed on.
4. Install the conduit fitting rated Nema 3R and run the AC wires into the cabinet.

Canopy Mount (single face ceiling)

1. The unit can only be installed with the canopies(12) on the top of the unit.
2. Drill two 17/32" dia. holes where indicated by a center mark on the top of the housing (see fig. 3).
3. Install the canopy on the nipple(14) by inserting the nipple through the center hole of the canopy (see fig.2). Install one lockwasher(11) and nut(16) on the upper end of the nipple, (inside the canopy). Insert one foam gasket(15), washer(13) and lockwasher on to the nipple. Thread

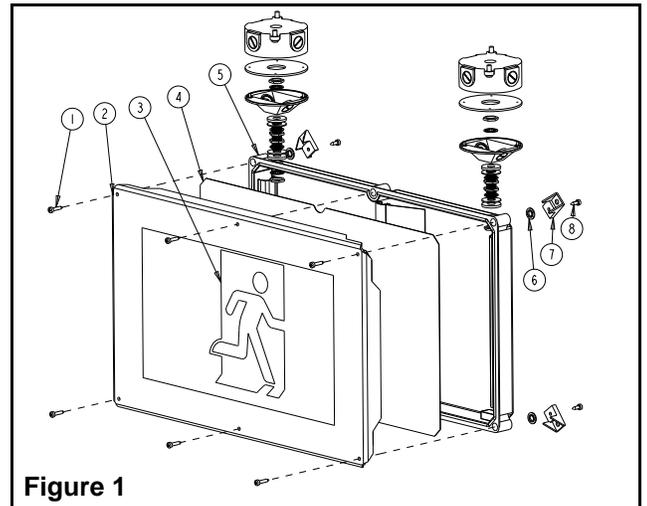


Figure 1

Parts List

- | | |
|---------------------------|--------------------------------|
| 1. Lens screws #10 (6) | 9. Junction Box (not supplied) |
| 2. Lens | 10. Canopy gasket (2) |
| 3. Pictogram panel | 11. Lock washer (8) |
| 4. Opal diffuser | 12. Canopy (2) |
| 5. Housing | 13. Nylon washer (4) |
| 6. Plastic spacer (4) | 14. Nipple 1/4IPS x 2"(2) |
| 7. Mounting bracket (4) | 15. Foam gasket (4) |
| 8. Screw 10-32 x 3/8" (4) | 16. Nut 1/4IPS (8) |

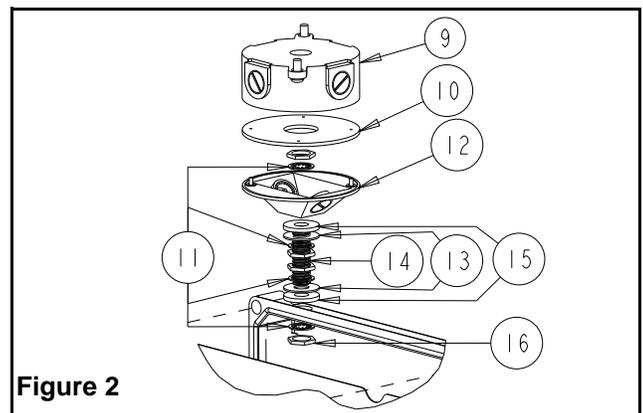


Figure 2

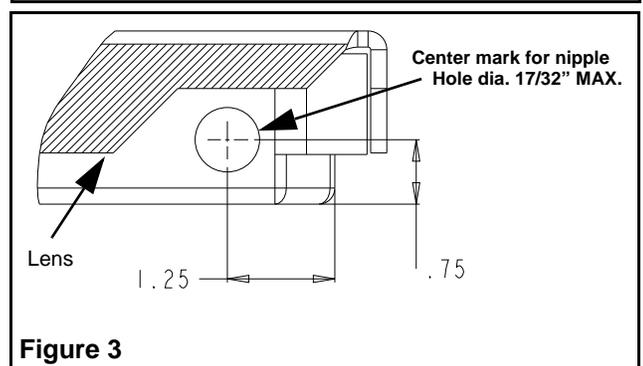


Figure 3



CAUTION Take extra care when drilling holes. Move wires out of the way and protect the PCBA.

another nut on the opposite side of the nipple and tighten it in place to secure the nipple to the canopy. Install the fourth nut onto the nipple to the desired position and slide the lockwasher, washer and foam gasket onto the nipple. Insert the nipple through the drilled hole on the housing and placing the lockwasher and nut onto the nipple and tighten the whole assembly to the housing.

Double face unit

If the unit is double face remove both lenses. Install nipple and canopy as indicated in previous step 3 under "canopy mount" into the pre-drilled holes on top of the unit.

4. Route wires through nipple/canopy assembly to make connections inside the junction box.

Electrical Connections



IMPORTANT:

Electrical connections for AC and DC wires must be isolated from each other (AC / DC only).

If the electrical connections are to be made inside the housing, place all the wires along the top of the housing and tie-rape them together making sure the wires stay in the white border area of the lens.

Self-Powered & AC/DC models — Make the connections according to fig. 4. The unit accepts AC voltages of 120 to 347V and DC voltages of 6 to 24V.



IMPORTANT:

Unused primary wire must be insulated to prevent shorting.

5. Install the housing(5) and canopy assembly {including the gasket (10)} to the junction box(9) using the junction box screws (not supplied).
6. Select the proper pictogram panel(3) (see fig. 5a and 5b). Place the opal diffuser(4) in first then place the pictogram panel on top of the opal diffuser while making sure to peel off the protective film.



IMPORTANT:

Pictogram panel needs to be oriented as per fig.5a and 5b. For double face units, arrows need to be pointing in the opposite directions as shown in fig.5b. **Matte side of the pictogram panel must be facing the opal diffuser.**

7. For self-powered models, connect the batteries to the LED strips.
8. Re-install the lens.

Testing (self-powered)

Allow unit to charge for 24 hours.

Test each LED strip by placing the provided magnetic tester close to the bottom of the housing, where indicated with a label, to activate the magnetic switch. Only one LED strip will activate at a time. When switch is activated, the sign may flicker and should remain lit. If not, inspect the batteries and return to the previous step 7.

Maintenance

None required. Unit should be tested in accordance with CEC or local codes. This equipment is furnished with a low battery disconnect circuit in the emergency mode. However, if the AC supply to the unit is to be disconnected for 2 months or more, the battery must be disconnected. Do not allow battery wires to short circuit.

Warranty: For the complete warranty information, please refer to the landing page of our website (<http://www.tnb.ca/en/products/emergency-lighting/>).

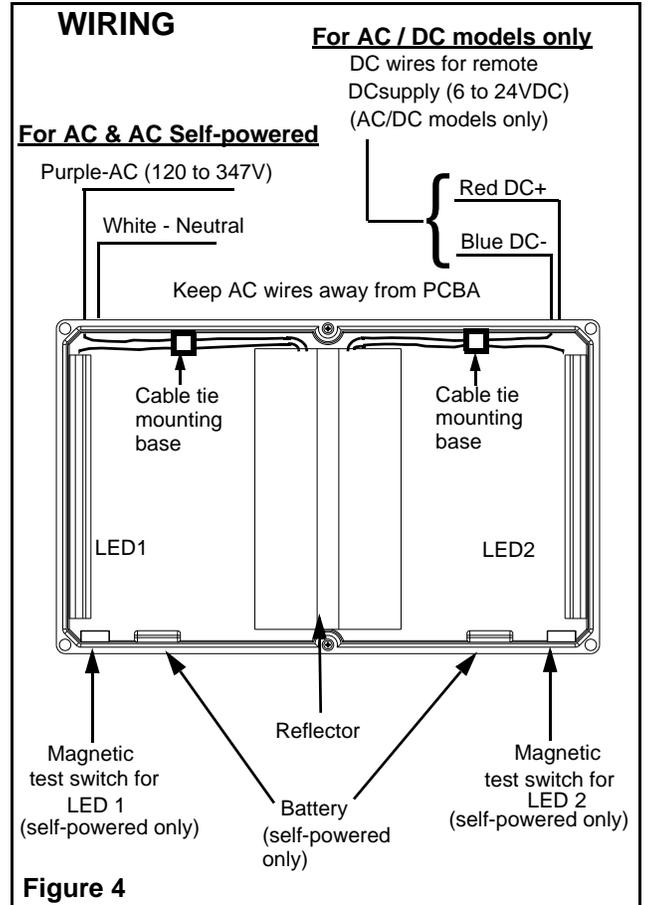


Figure 4

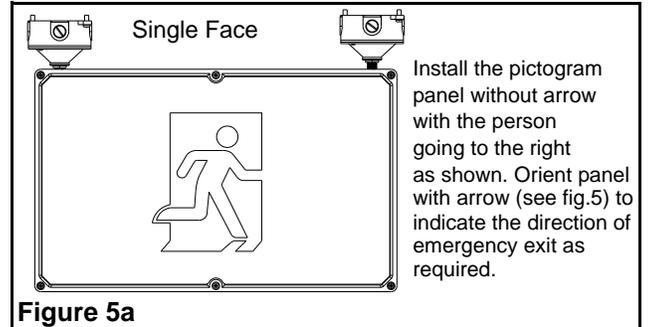


Figure 5a

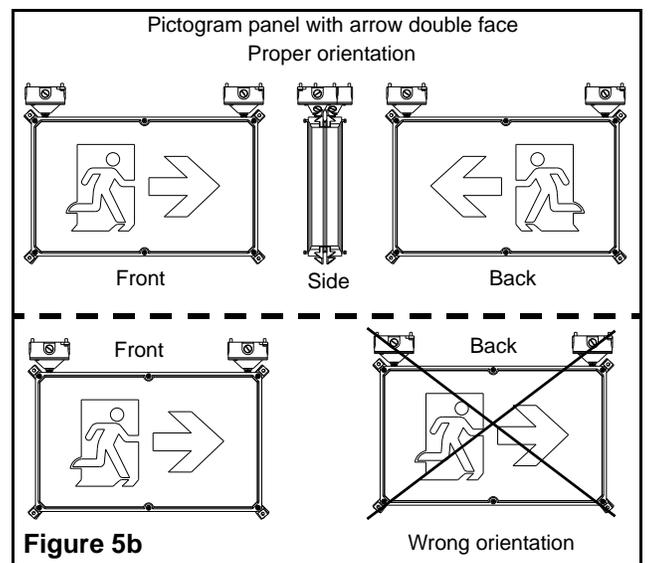


Figure 5b