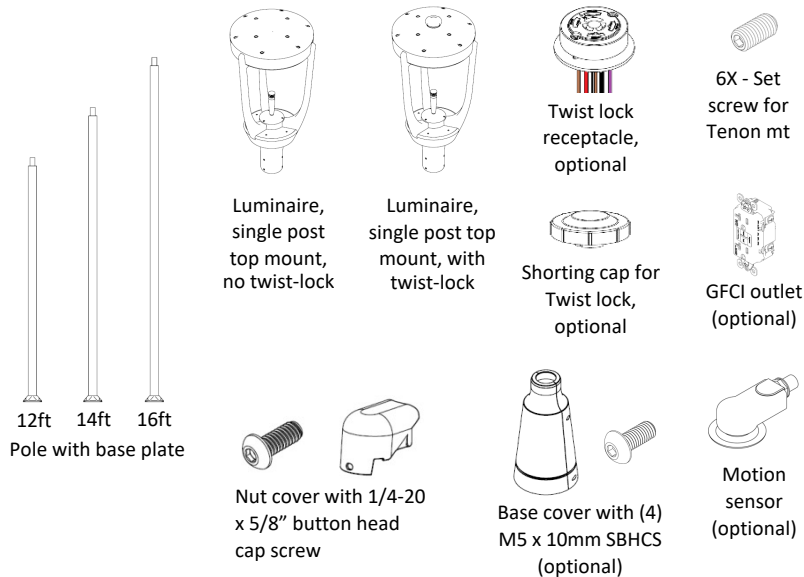


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INCLUDED COMPONENTS:



TOOLS REQUIRED:

- Safety glasses
- Wrenches, 1-1/8"
- Wiring tools and connectors
- Proper personnel, crane or lift for hoisting unit onto anchors
- Level
- Dimming control, if required
- Hex keys, 5mm, 3mm (for base cover option), 5/32" for nut covers
- Twist lock photo eye control, if required
- Phillips screwdriver

CAUTION! This unit is heavy. To avoid injury or damage to the finish, we recommend using a crane or lift for hoisting the unit onto the anchors.

Landscape Forms is not responsible for site preparation and footings. Refer to the anchor kit installation guide for setting the anchor bolts.

WARNING! Pole mounted luminaires must be attached either before or immediately after pole installation. Failure to do so may cause vibration damage to the pole and will void the pole warranty.

WARNING! Installer must provide strain relief to line-in wires where they connect to light fixture and occupancy sensor wires. Failure to do so may cause electrical failure and will void warranty.

WARNING! LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.

INSTALLATION PROCEDURE FOR LIGHT POLE:

Note: assembled unit is heavy. Wiring connections should be made before lifting pole onto anchors.

RUN WIRING:

1. Using protective padding, position base plate of pole near conduit location. Ground line in must be connected to ground lug near handhole. Ground wire extends up the pole for all configurations.

For poles with GFCI outlet:

1. Run line-in voltage wiring inside pole base plate, extending out through the receptacle hole for the GFCI outlet. Connect line-in voltage wiring to line terminals on outlet receptacle. Attach receptacle to pole. Refer to wiring diagram for GFCI outlet.

For poles with occupancy sensor:

1. Run line-in voltage wiring inside pole base plate, extending out through the top of the pole.
2. Run wiring from occupancy sensor through the sensor mount bracket and out through the top of the pole.
3. Thread the occupancy sensor onto the mount bracket until snug, with the sensor aligned with base of the pole, see Fig. 4.
4. Connect the occupancy sensor to the line-in voltage wiring, refer to wiring diagram for occupancy sensor.

For single luminaire mount:

Note: When ordered with Twist-Lock Receptacle, the receptacle is pre-wired into the top of the luminaire.

1. Run line-in voltage wiring inside pole base plate, extending out through the top of the pole.
2. Connect line-in voltage wiring to the wires exiting the bottom of the luminaire hub. Refer to wiring diagrams.
3. For units with twist-lock receptacle, replace supplied shorting cap with photo-control (supplied by others).

INSTALL LUMINAIRE/POLE ASSEMBLY

1. Install single luminaire over tenon mount on pole. Using 5mm hex key, install and tighten all 6 set screws to secure luminaire to tenon, see Fig. 2, level as required. For asymmetric light distribution luminaires, one arm of the luminaire will be clearly marked as 'Front', see Fig. 1.
2. Lift the light pole into position over the installed anchors (refer to Northport anchor kit installation guide) as shown in Fig. 3. Ensure that the base plate is resting on all four washers.
3. Install washer, lock washer and hex nut as shown in Fig. 3.
4. Plumb and level the pole and tighten all anchors

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ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

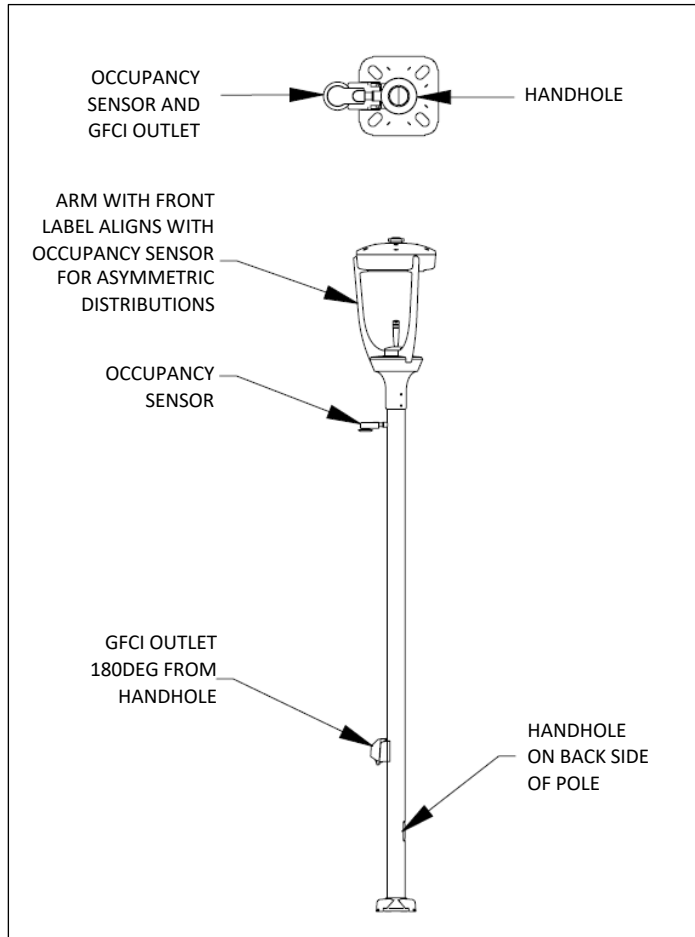


Fig. 1 – Pole orientation

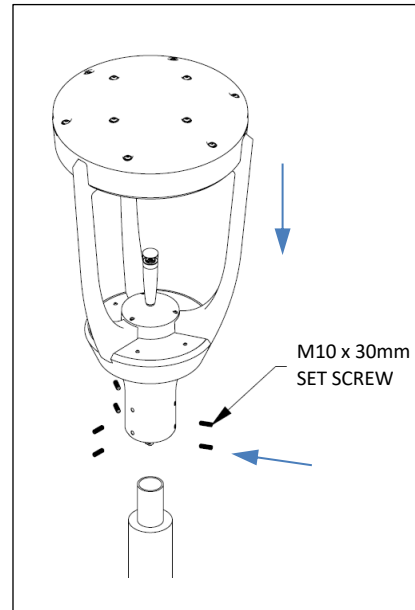


Fig. 2 – Install single post top luminaire on pole

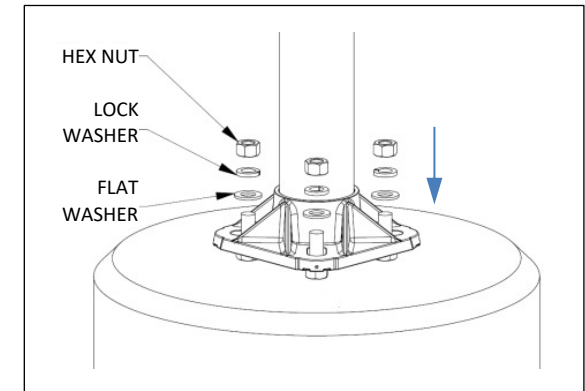


Fig. 3 – Install pole

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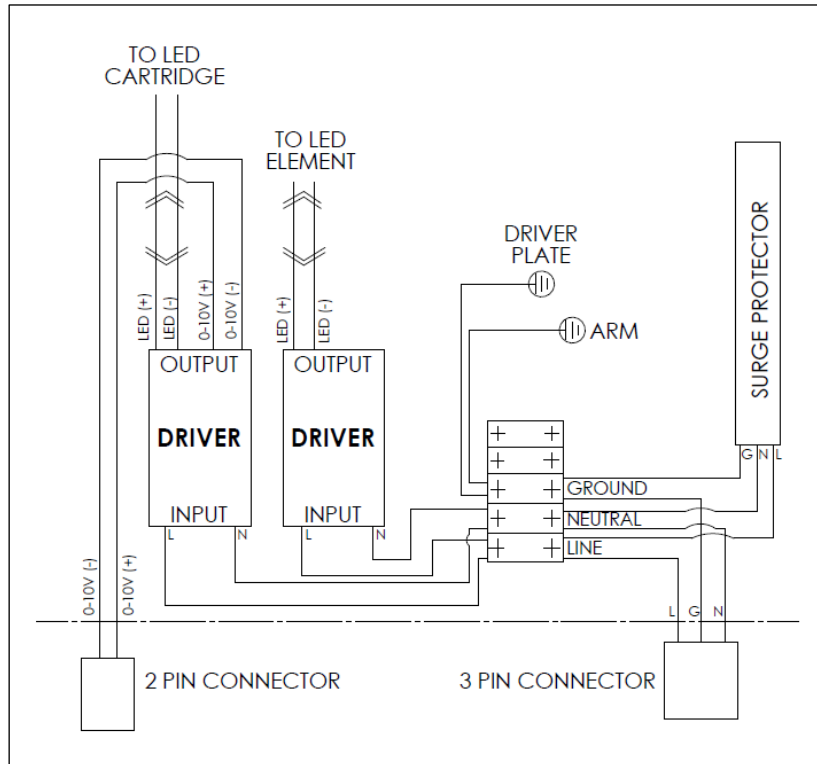
PROCEDURE FOR WIRING NORTHPORT:

The Northport luminaire is assembled at the factory. The light cartridge is mounted into the head of the luminaire and will not need to be removed during installation. The LED cartridge is wired to the driver (located in the base of the luminaire) at the factory. Use of LED drivers other than the supplied unit is not recommended and will void the warranty.

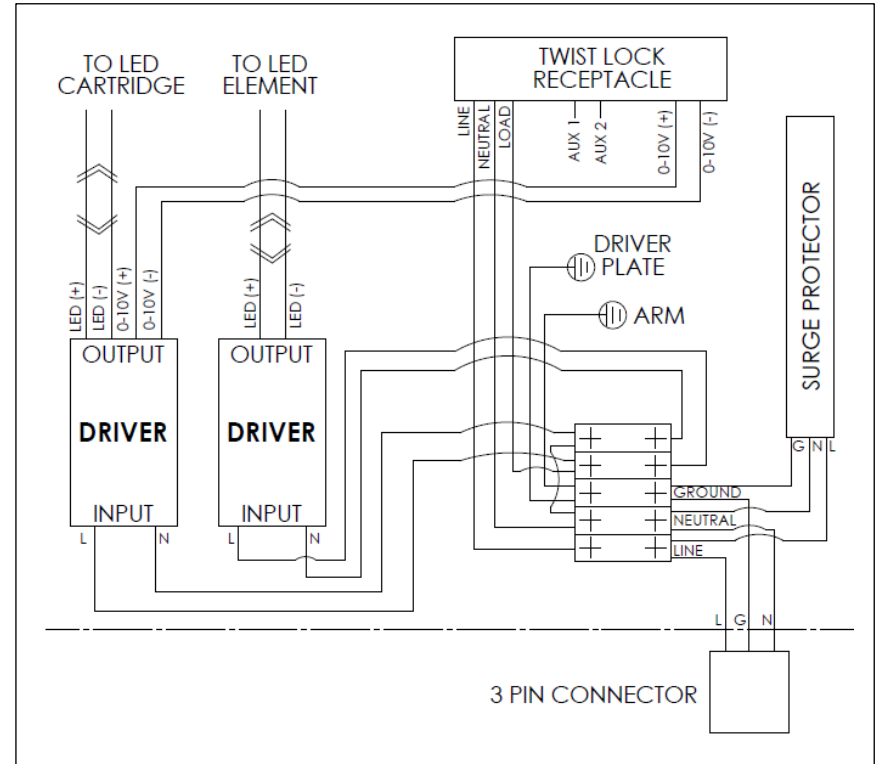
The wiring schematics are to be used to connect the unit to line voltage. It is the responsibility of the installer to make sure that all connections are made in accordance with the NEC and local building codes. Connection hardware not included.

Line-in wires should be connected to the terminal block as shown. Optional dimming control is not included.

WARNING! LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.



WIRING DIAGRAM: No twist lock: DR301 luminaire

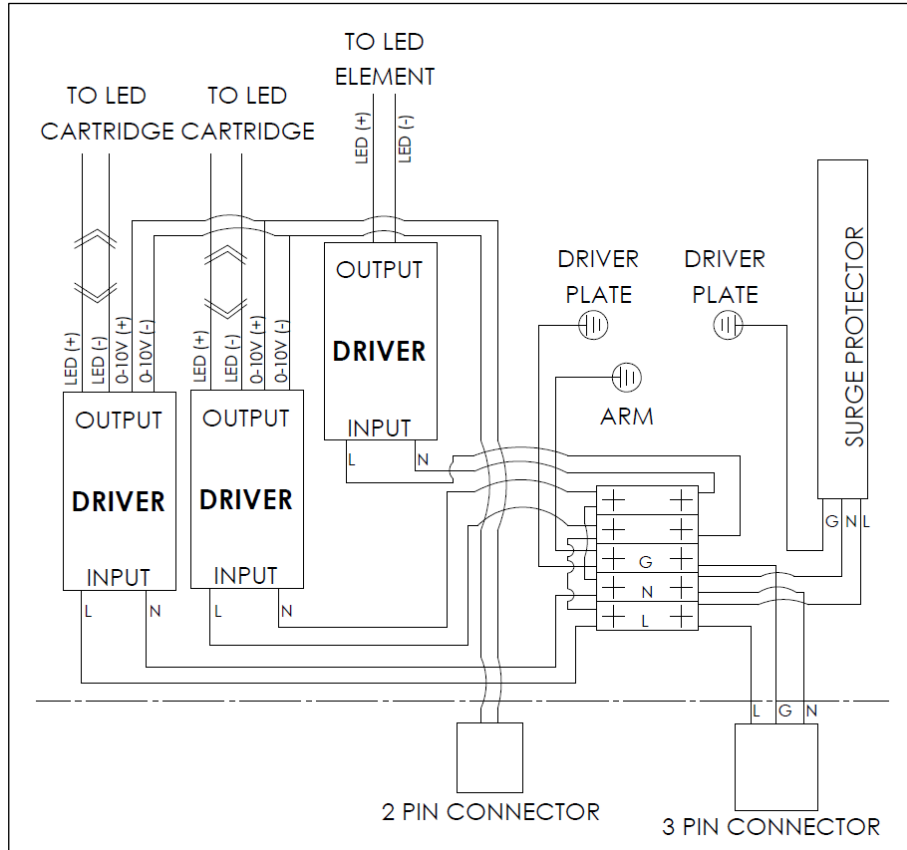


WIRING DIAGRAM: With twist lock: DR301 luminaire

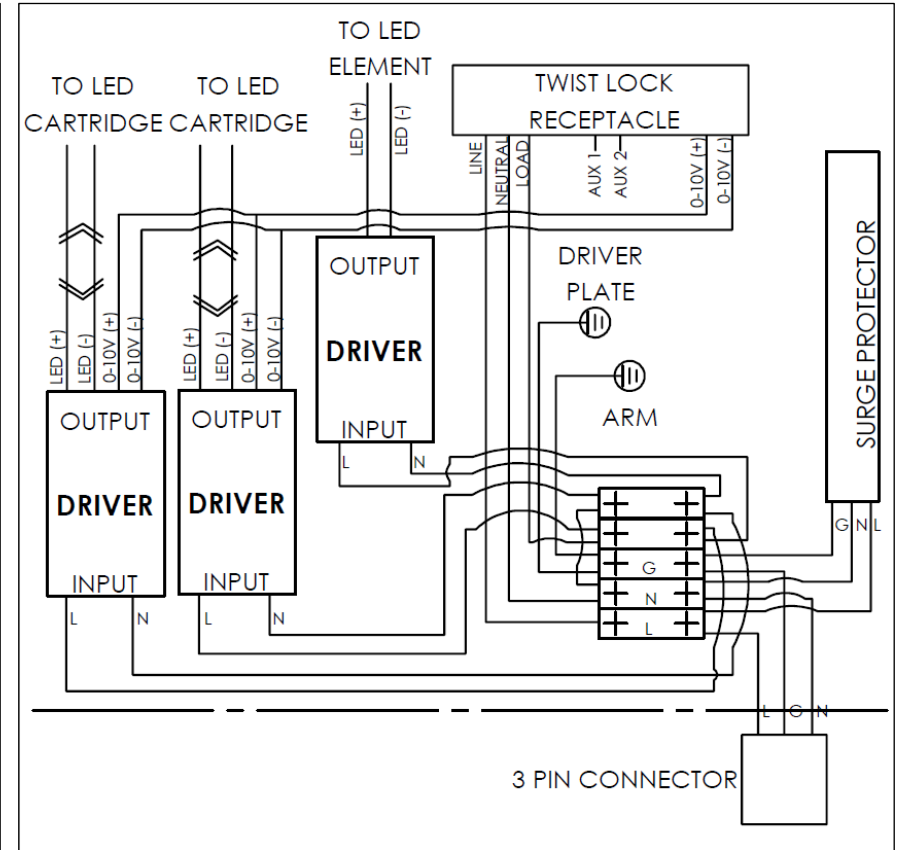
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WIRING DIAGRAM: No twist lock: DR306 luminaire

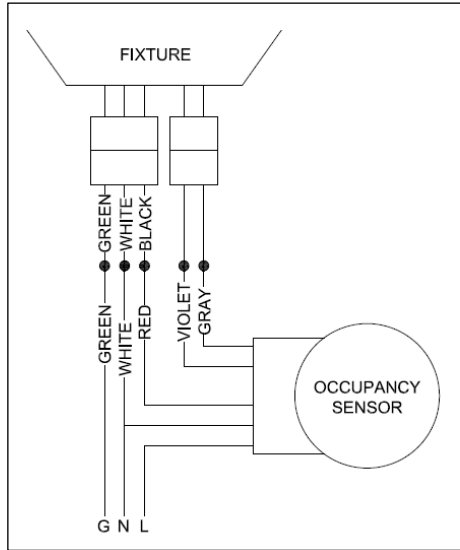


WIRING DIAGRAM: With twist lock: DR306 luminaire

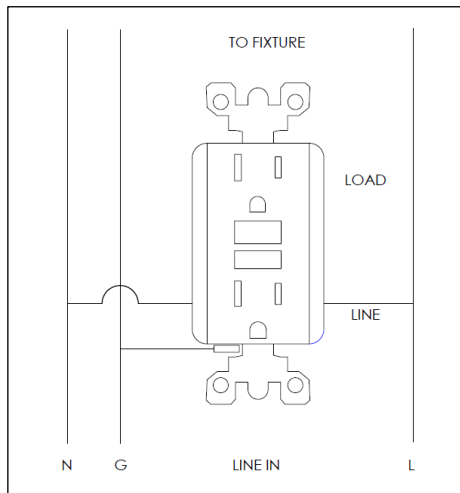
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WIRING DIAGRAM: occupancy sensor for single post top luminaire



WIRING DIAGRAM: GFCI outlet

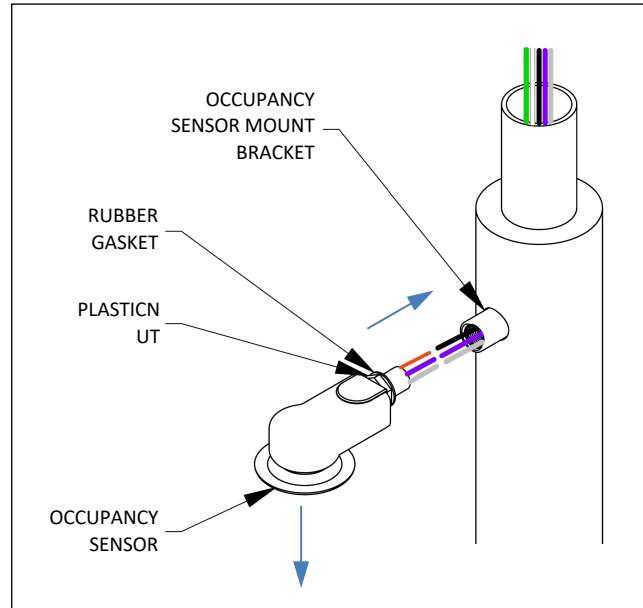


Fig.4 – Install optional occupancy sensor

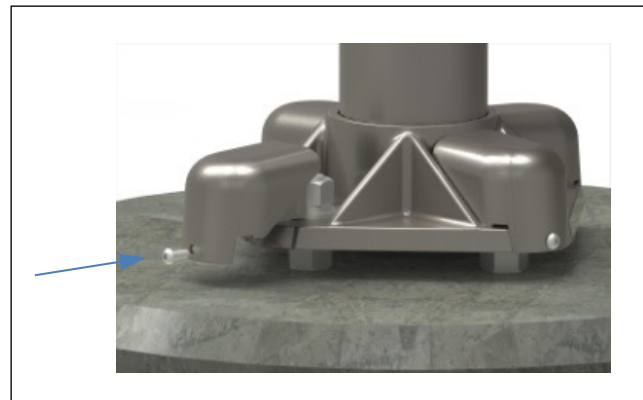


Fig. 5 – Install nut covers

INSTALLATION PROCEDURE FOR NUT COVERS OR BASE COVER:

For nut covers:

1. Install nut covers (shipped with pole) as shown in Fig. 5.

For base cover:

1. Place base covers in position. Using 3mm hex key, install M5x0.8x12mm button head cap screws (4 places) as shown in Fig. 6.

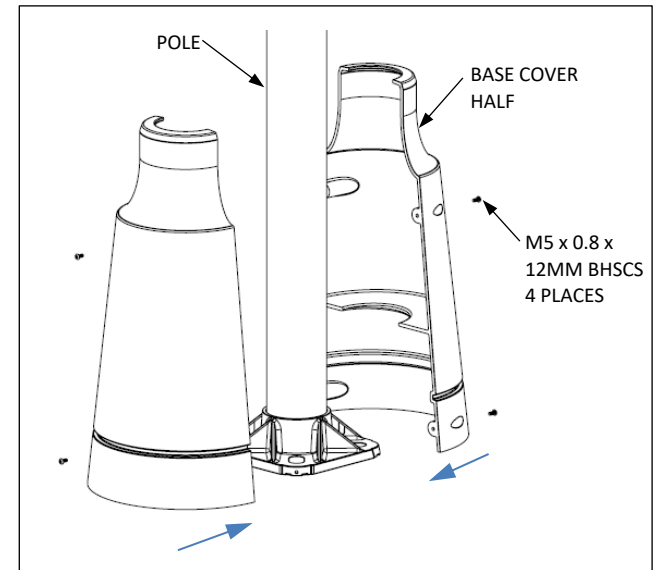


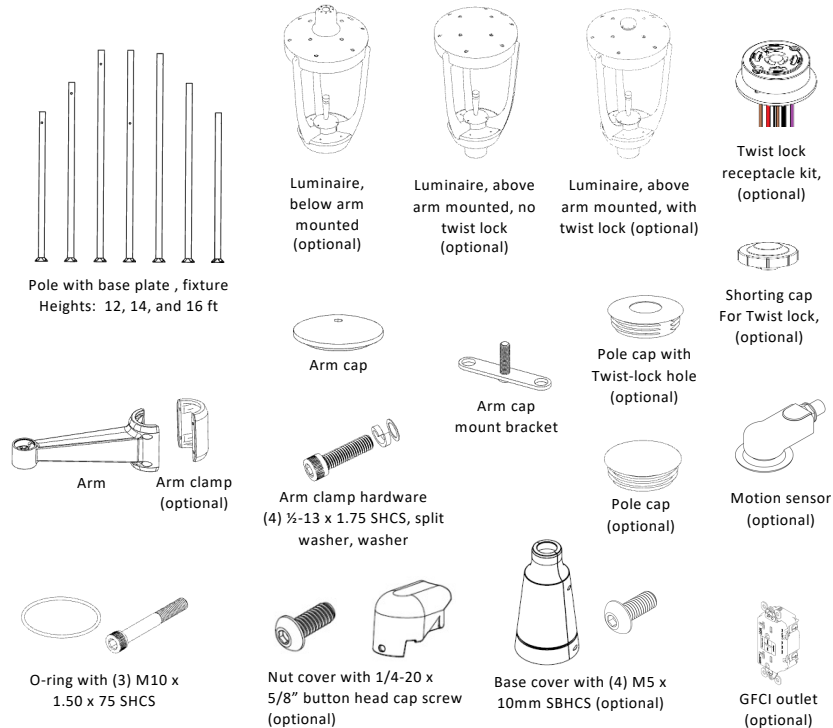
Fig. 6 – Install optional base cover

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INCLUDED COMPONENTS:



TOOLS REQUIRED:

- Safety glasses
- Wrenches, 1-1/8"
- Wiring tools and connectors
- Proper personnel, crane or lift for hoisting unit onto anchors
- Level
- Dimming control, if required
- Hex keys, 5mm, 3mm (for base cover option), 5/32" for nut covers
- Twist lock photo eye control, if required
- Hex keys, 3/8" for pole clamp, 8mm for fixture to arm
- Phillips screwdriver
- Socket wrench (3/8" drive min)
- 3/8" Hex bit socket
- 8mm Hex bit socket
- Torque wrench
- Packing blankets and short 2x4 wood pieces

WARNING! Pole mounted luminaires must be attached before pole installation. Failure to do so may cause vibration damage to the pole and will void the pole warranty.

WARNING! Installer must provide strain relief to line-in wires where they connect to light fixture and occupancy sensor wires. Failure to do so may cause electrical failure and will void warranty.

WARNING! LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

CAUTION! This unit is heavy. To avoid injury or damage to the finish, a crane or lift is required for hoisting the unit onto the anchors.

Landscape Forms is not responsible for site preparation and footings. Refer to the anchor kit installation guide for setting the anchor bolts.

INSTALLATION PROCEDURE FOR LIGHT POLE:

Note: assembled unit is heavy. Wiring connections should be made before lifting pole onto anchors.

RUN WIRING IN POLE:

Lay packing blankets and position base plate of pole near conduit location. Ground line in must be connected to ground lug near handhole. Ground wire extends up the pole for all configurations.

For poles with GFCI outlet:

1. Run line-in voltage wiring inside pole base plate, extending out through the receptacle hole for the GFCI outlet. Connect line-in voltage wiring to line terminals on outlet receptacle. Attach receptacle to pole. Refer to wiring diagram for GFCI outlet.

For poles with occupancy sensor:

1. Run line-in voltage wiring inside pole base plate, extending out through the top of the pole.
2. Run wiring from occupancy sensor through the sensor mount bracket and out through the top of the pole. (Add wire to occ sensor leads as necessary if the sensor is mounted further down pole. Wire and solder splice connectors provided by others)
3. Thread the occupancy sensor onto the mount bracket until snug, with the sensor aligned with base of the pole, see Fig. 4.
4. Connect the occupancy sensor to the line-in voltage wiring, refer to wiring diagram for occupancy sensor.

For below arm mounted luminaires only:

Note: When ordered with Twist-Lock Receptacle, the twist lock receptacle will need to be mounted to the pole cap, see Fig. 7.

1. Run line-in voltage wiring inside pole base plate, extending out through the top of the pole.
2. Connect line-in voltage wiring to the wires from the twist lock receptacle. Refer to wiring diagrams.
3. For units with twist-lock receptacle, replace supplied shorting cap with photo-control (supplied by others).

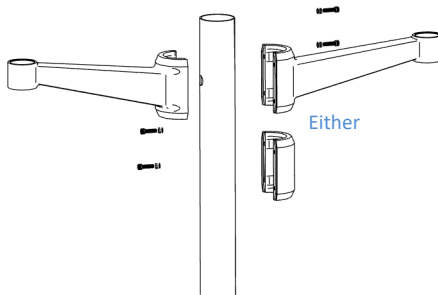
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ATTACH ARM(S) TO POLE

1. Lay packing blankets or similar on large flat assembly area. Place the pole on blankets such that 1-1/2" hole is located on the side.
2. Position arm to align with hole in pole, insert wires thru hole, slide pole up to arm.
3. For back-to-back arm mounted units, repeat step 2 with the second arm. Note: short wooden 2x4 pieces are handy to lift arm correctly. For single arm mount units, locate arm clamp on pole opposite of arm. For lower arm on staggered height units, add wire as required to extend to top of pole. Wire and connectors provided by others.
4. Install (4) 1/2"-13 screws, lock washers, and flat washers as shown below using a 3/8" hex key or bit and socket. Alternate tightening of all 4 screws until all are evenly snug, then use torque wrench to tighten each to **48-50 ft-lbs**.

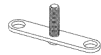


ATTACH LUMINAIRE TO ARM

1. Locate the following hardware and the luminaire:



O-ring with (3) M10
x 1.50 x 75 SHCS

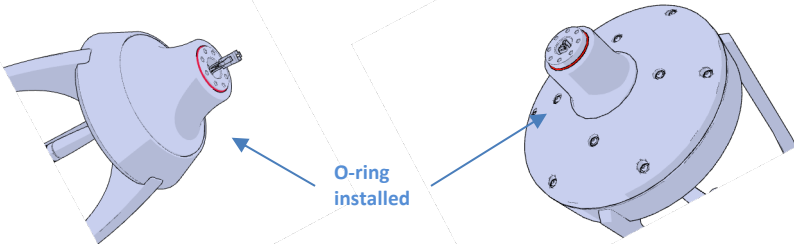


Arm cap
mount bracket

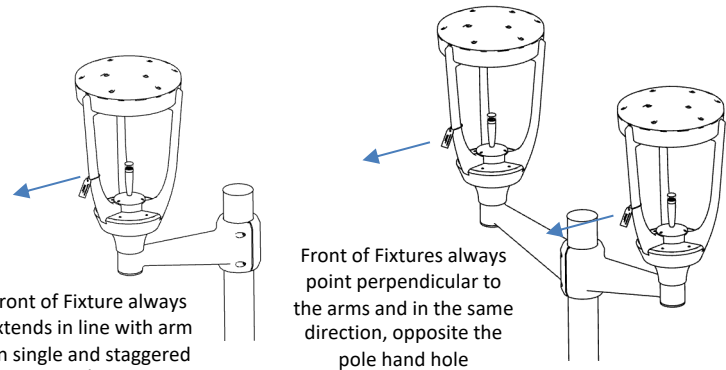


Arm cap

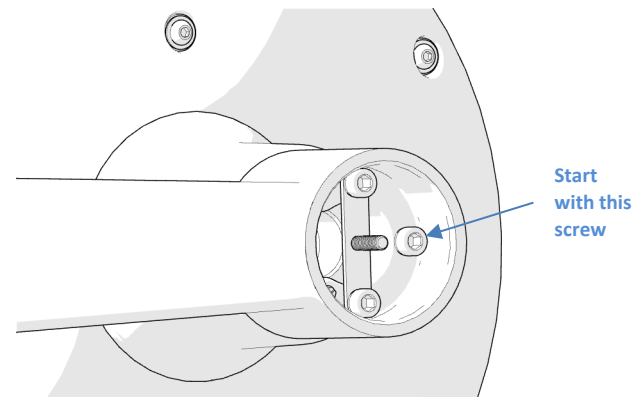
2. Position the luminaire near the end of the arm, close to how it will be mounted. (either above or below the arm)
3. Install O-ring on the luminaire hub as shown below:



4. Connect wire harness(es) from fixture to harness installed in arm. Note: Arms are sent out with a dimming harness installed, however this harness is not used with above-arm mounted luminaires with twist lock on the luminaire.
5. **Locate the front of the fixture (designated with a red FRONT tag) and as the fixture is moved to the arm, make sure the alignment is correct and the o-ring remains seated properly. See images below for proper orientation:**



6. Loosely attach the outermost M10 screw using the M8 hex key. Twist fixture until the other two holes line up correctly. Install the arm cap mount bracket as shown below, with the threaded side pointing out. Alternate tightening of all 3 screws. Once all three screws are finger tight, then use torque wrench to tighten each to **18-20 ft-lbs**.

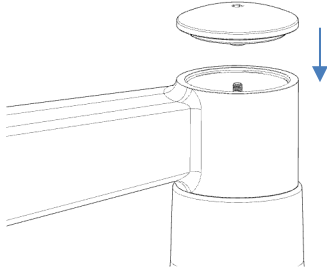


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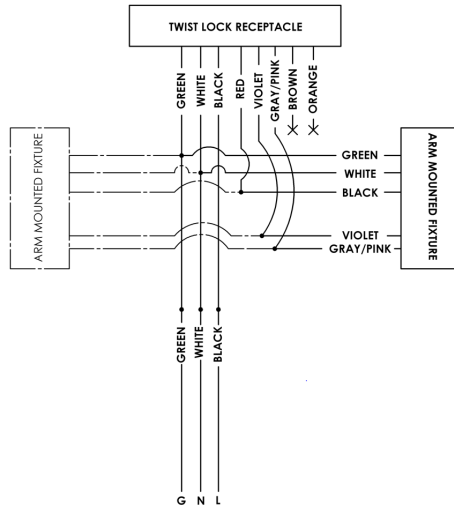
7. Install arm cap onto the arm cap mount bracket by threading it down until the base of the cap is firmly against the arm. This should be done by hand. For removal, we recommend using a strap wrench.



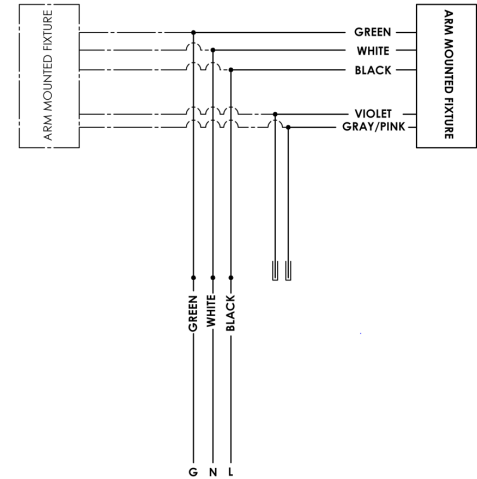
ATTACH WIRING AT TOP OF POLE

Using the following wiring diagrams, hook up wires at top of pole. Connectors and extension wire provided by others

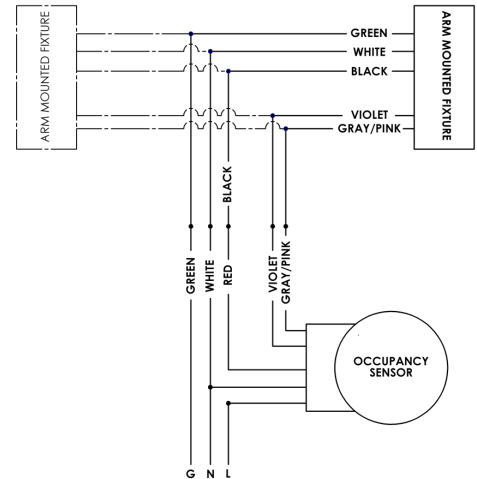
WARNING! Installer must provide strain relief to line-in wires where they connect to light fixture and occupancy sensor wires. Failure to do so may cause electrical failure and will void warranty.



WIRING DIAGRAM: for single and double arm mounted luminaires with pole top twist lock receptacle



WIRING DIAGRAM: for single and double arm mounted luminaires

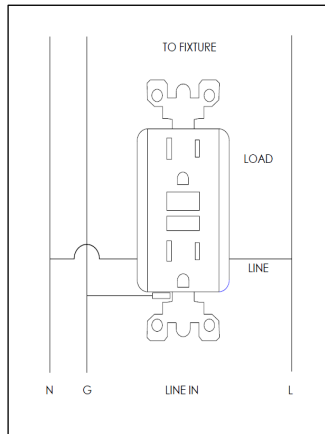


WIRING DIAGRAM: for single and double arm mounted luminaires with occupancy sensor

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WIRING DIAGRAM: GFCI outlet

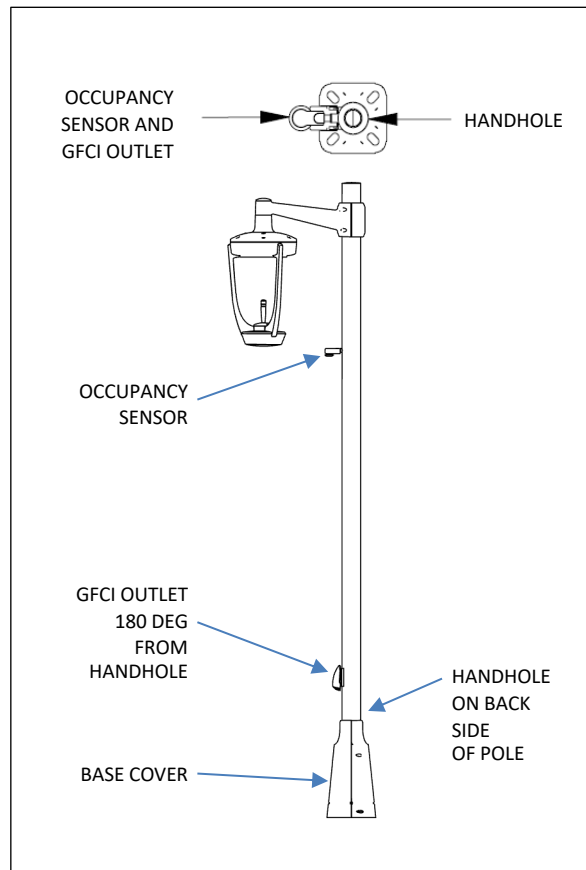


Fig. 1 – Accessories locations

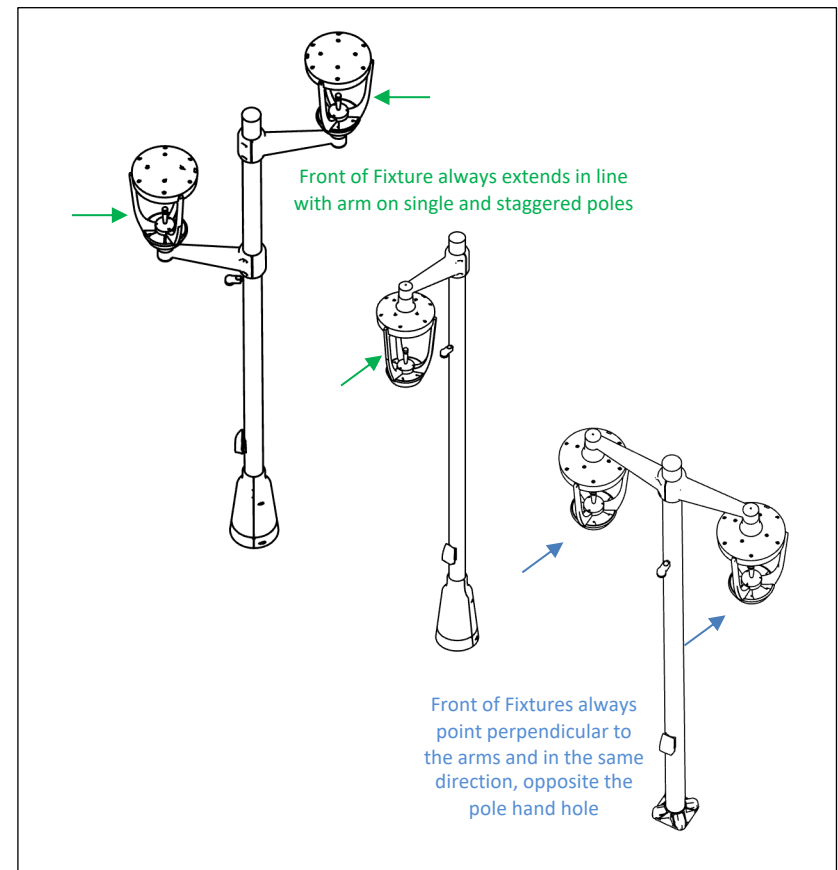


Fig. 2 – Typical assemblies - front of fixture locations

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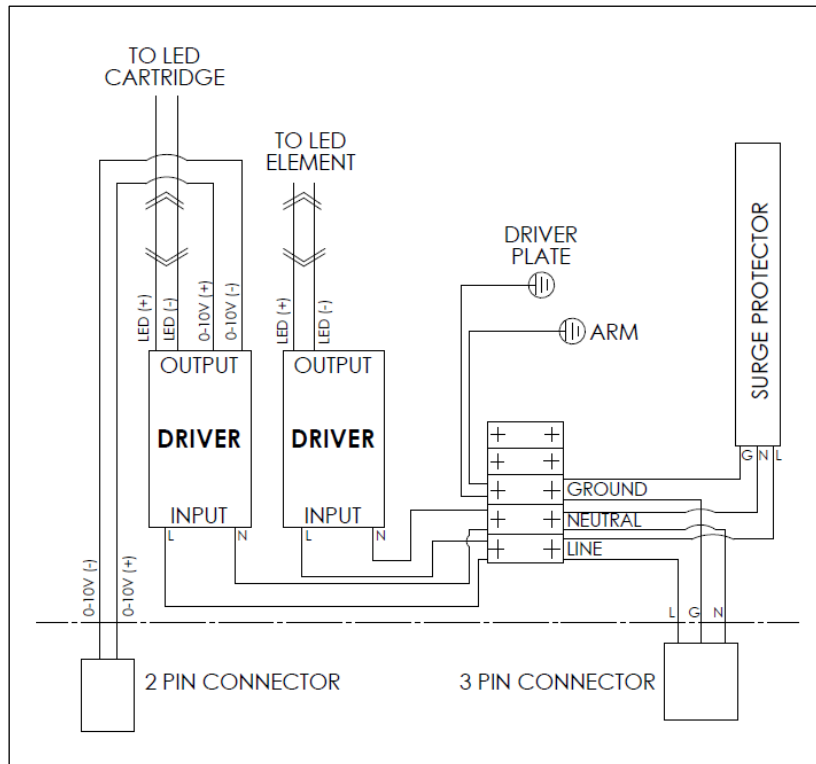
PROCEDURE FOR WIRING NORTHPORT:

The Northport luminaire is assembled at the factory. The light cartridge is mounted into the head of the luminaire and will not need to be removed during installation. The LED cartridge is wired to the driver (located in the base of the luminaire) at the factory. Use of LED drivers other than the supplied unit is not recommended and will void the warranty.

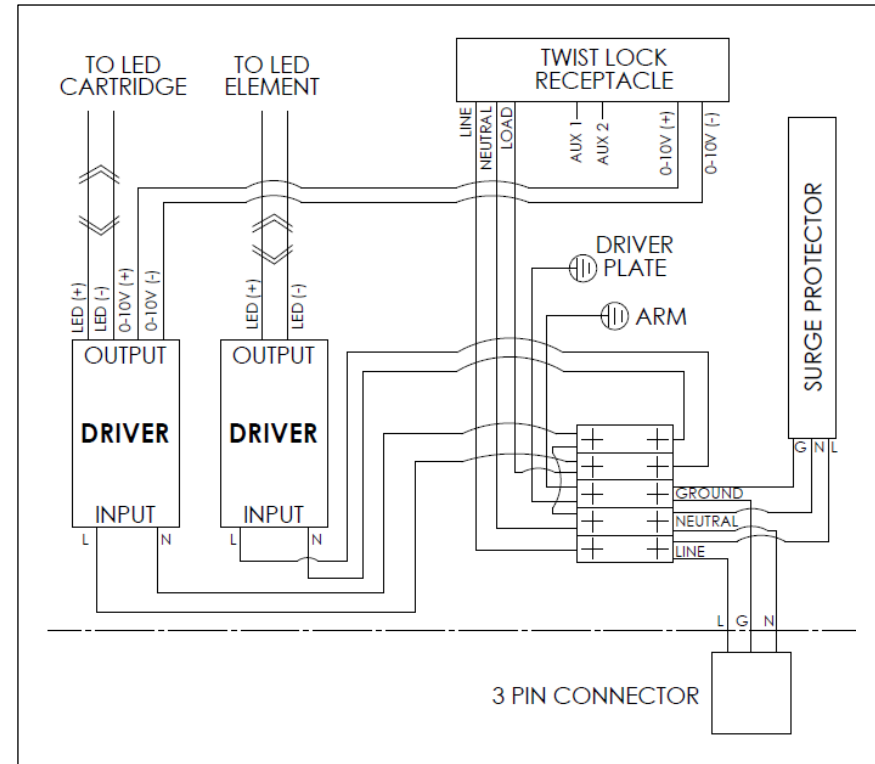
The wiring schematics are to be used to connect the unit to line voltage. It is the responsibility of the installer to make sure that all connections are made in accordance with the NEC and local building codes. Connection hardware not included.

Line-in wires are connected to the terminal block as shown. Optional dimming control is not included.

WARNING! LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.



WIRING DIAGRAM: No twist lock: Type 3 Distribution (DR202, DR203, DR204, DR205); 18 LED (DR302, DR303, DR304, DR305) luminaires

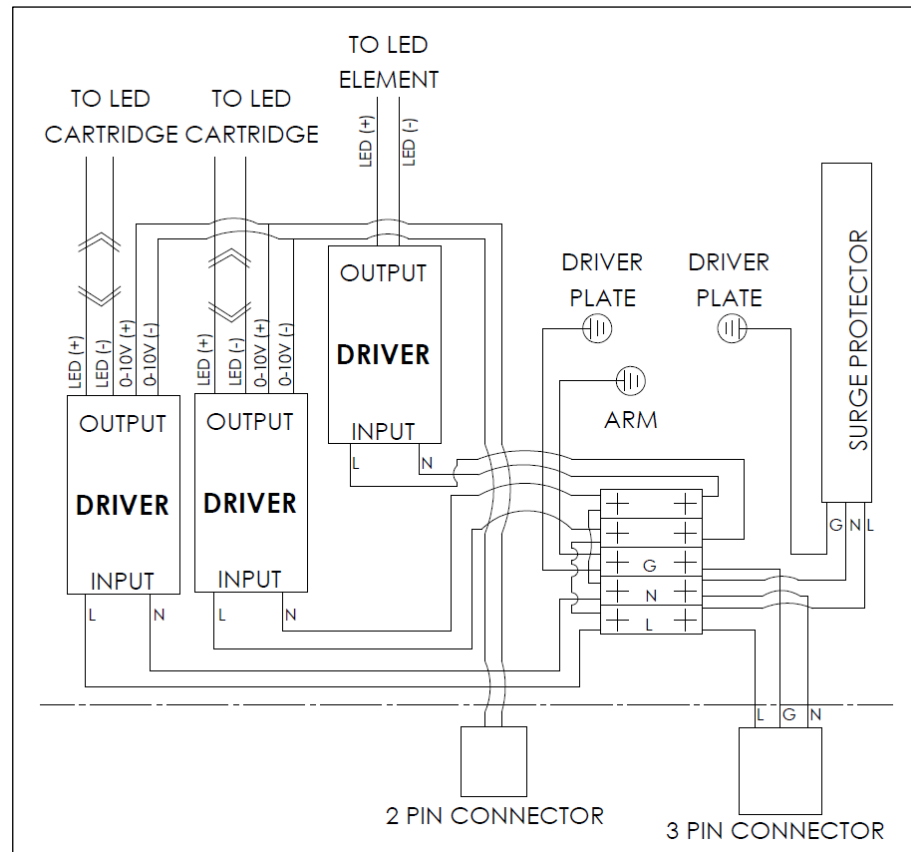


WIRING DIAGRAM: With twist lock: Type 3 Distribution (DR204, DR205); 18 LED (DR304, DR305) luminaires

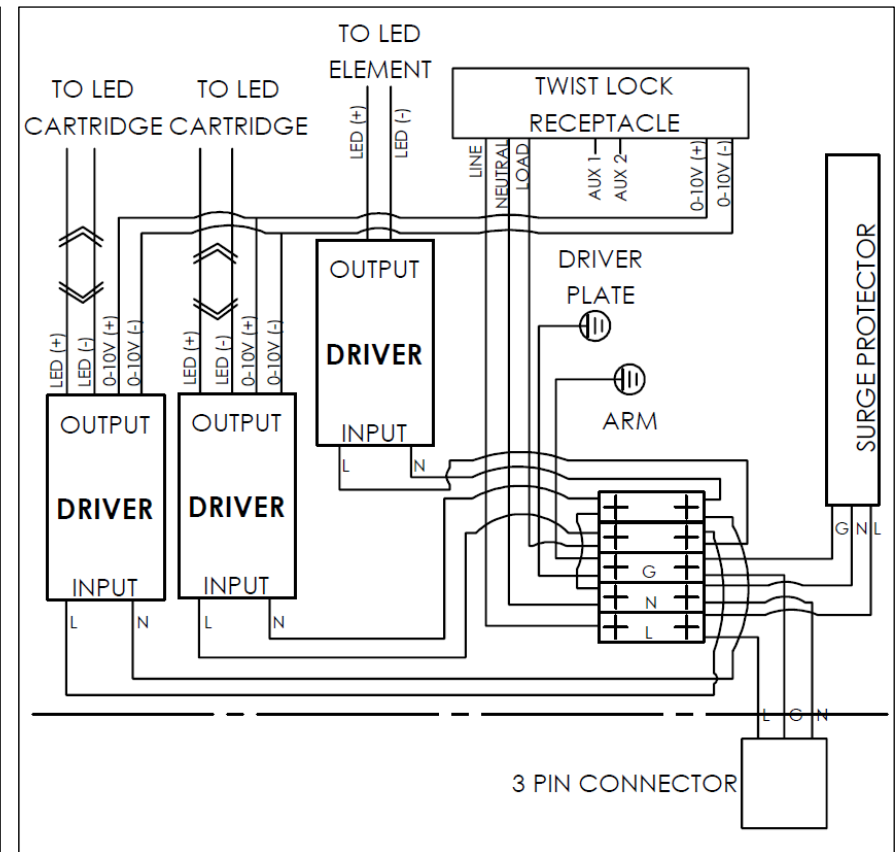
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WIRING DIAGRAM: No twist lock: Type 5 Distribution (DR202, DR203, DR204, DR205); 36 LED (DR302, DR303, DR304, DR305) luminaires



WIRING DIAGRAM: With twist lock: Type 5 Distribution (DR204, DR205); 36 LED (DR304, DR305) luminaires

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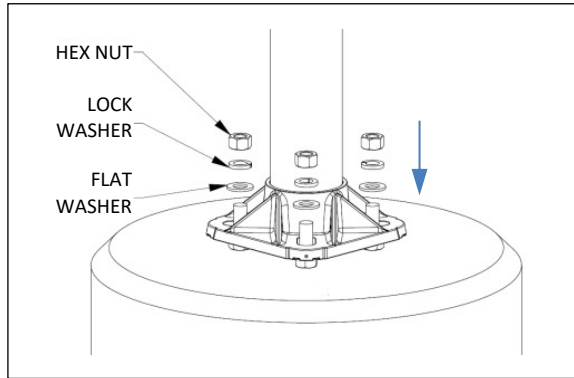


Fig. 3 – Install pole

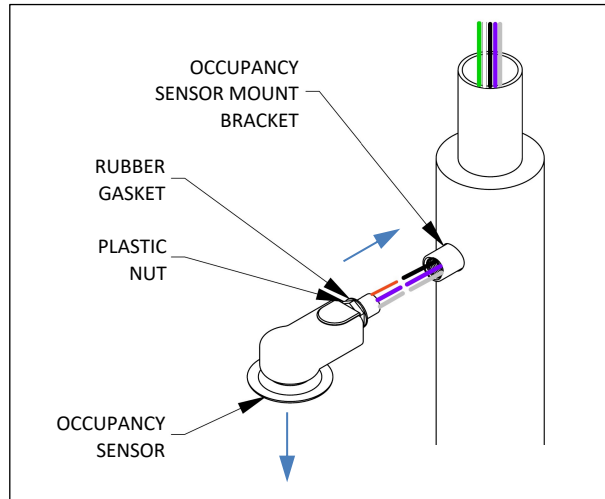


Fig.4 – Install optional occupancy sensor

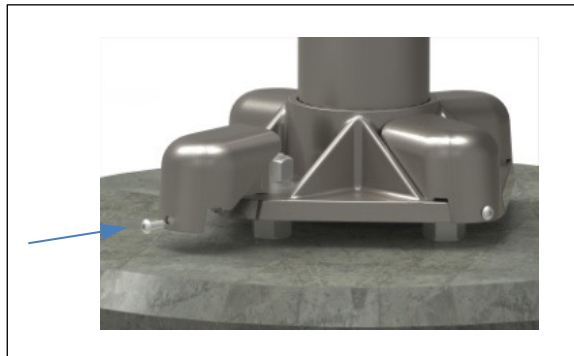


Fig. 5 – Install nut covers

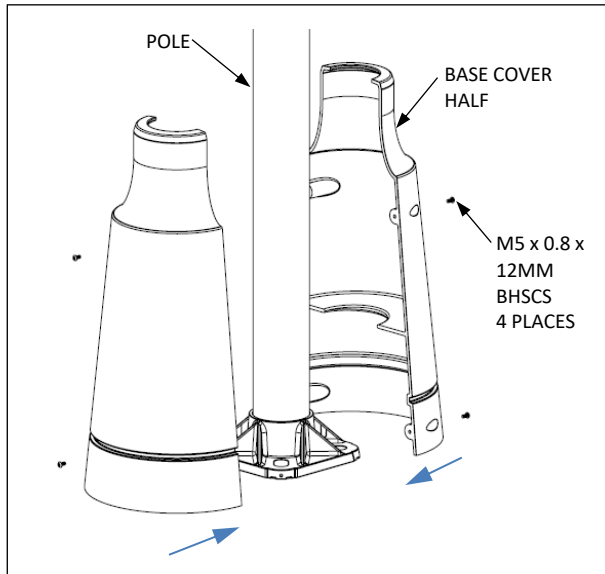


Fig. 6 – Install optional base cover

INSTALLATION PROCEDURE FOR NUT COVERS OR BASE COVER:

For nut covers:

1. Install nut covers (shipped with pole) as shown in Fig. 5.

For base cover:

1. Place base covers in position. Using 3mm hex key, install M5x0.8x12mm button head cap screws (4 places) as shown in Fig. 6.

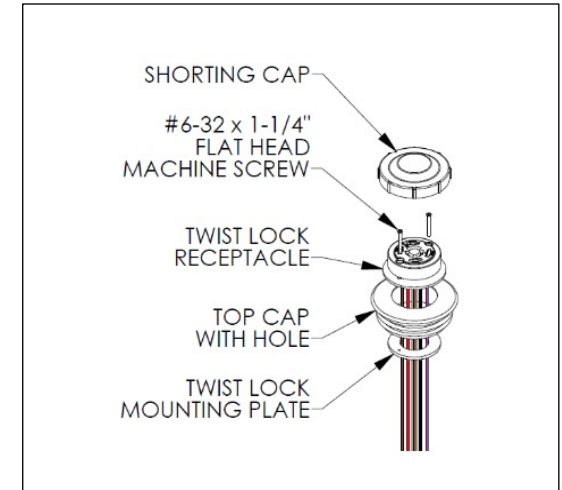


Fig. 7 – Install optional twist lock receptacle to top cap