Internal Halyard Flagpole Beacon Installation Guide

IMPORTANT SAFETY WARNINGS

1. **Electrical Safety:** Ensure all power is turned OFF at the breaker before beginning installation.
2. **Qualified Personnel:** All wiring on 110/120V units must be performed by a qualified electrician in accordance with local electrical codes.
3. **Pinch Hazard for New Installs:** When setting the pole, ensure the wire does not get pinched or sheared against the ground sleeve.
4. **When in Doubt, Call:** Should any questions arise during installation, call (800) 962-0956 or email info@flagco.com.

Step 1: Pre-Installation Function Test and Pole Prep

1. **Before drilling any holes or applying adhesive**, connect the Beacon to your power source on the ground.
2. Turn on the power; the light should illuminate immediately.
3. If the light does not turn on, check your connections. **Do not proceed** with installation until the unit is confirmed working.

Step 2: Above-Grade Wiring Preparation (Recommended for Retrofits)

(Skip this step if you are wiring below grade)

- Drill a 11/16" diameter hole in the flagpole at ground level.
- Ensure the hole is positioned where the flash collar will hide the wire exit point.

Step 3: Below-Grade Wiring Preparation (Recommended for New Installations)

(Skip this step if you are wiring above grade)

1. Dig a trench in accordance with local code, running from your power supply to the ground sleeve location.
2. Drill a hole large enough to accept conduit in the side of the ground sleeve. This hole should align with your trench depth to allow for conduit/wire entry.
3. Drill a 11/16" corresponding hole in the flagpole shaft. This hole should align with the hole in the ground sleeve when the pole is seated. Drill this hole before pole assembly (Step 5).
4. Install any necessary conduit into the foundation sleeve hole, ensuring compliance with all local codes.
5. Run 120V-rated power wire from your power source through the trench and through the hole in the ground sleeve, leaving enough excess wire to connect to the wire from the Beacon inside the ground sleeve. Note: All wire connections inside the ground sleeve must use weatherproof splice connectors rated for direct burial or wet locations.

Step 4: Routing the Flag Cable (Halyard)

1. Remove the three flathead screws securing the Top Housing and lift it off to expose the interior.
2. Thread the flag cable up through the center hole, over the pulley(s), and feed it down through the "nose" (cable exit) hole.

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3. **Important:** Before reassembling, you must completely remove the black electrical tape holding the internal wires in place. These wires need to move freely for the unit to operate correctly.
4. Place the Top Housing back onto the unit and tighten the three flathead screws.

Step 5: Mounting the Beacon

1. Assemble pole sections in accordance with flagpole manufacturer's instructions.
2. Tape the end of the flag cable and the power wire to fish tape. Feed the assembly down through the top of the flagpole until it reaches the winch access door.
3. Apply Loctite (or similar thread locker) to the Beacon spindle threads.
4. Screw the Beacon firmly into the top of the flagpole.
   a. **Important:** Apply torque to the base only. Rotating the unit by the light housing may damage the fixture
   b. **Tip:** It is helpful to counter-rotate the wires at the bottom while screwing the Beacon into the top to keep them straight.
5. After threading the Beacon into the top of the flagpole, verify that the halyard and electrical wire have not become twisted or tangled inside the pole.

Step 6: Fishing the Wire

1. Route the Beacon wire along the non-handle side of the winch. This prevents the wire from interfering with the handle during operation.
2. Go to the 11/16" hole in the flagpole shaft (drilled in Step 2 or Step 3).
3. Create a small hook at the end of a stiff piece of wire (such as solid copper wire) or use a fish tape.
4. Insert the hook into the hole, snag the Beacon power wire hanging inside the pole, and carefully pull the power wire out through the hole.
5. Pull the wire until most of the slack is removed from inside the pole, but leave enough slack at the top to allow the Beacon to rotate.

Step 7: Erecting the Flagpole

- Connect the halyard to the winch according to the winch manufacturer's instructions. Once secured, raise the flagpole into the ground sleeve following the pole manufacturer's guidelines.
- **Note for below-grade installation:** Do not cover the conduit hole with sand until power is connected and tested.

CRITICAL: Ensure the wire exiting the bottom of the pole does not get pinched or sheared against the ground sleeve during this process.

Step 8: Final Connection

1. Run the power wire from the pole through the conduit (or under the flash collar) to your power supply.
2. Connect the power supply to your external timer or switch.
3. For below-grade installations: fill the ground sleeve with sand and tamp once power is connected and tested.