

FCI-T Series – INSTALLATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

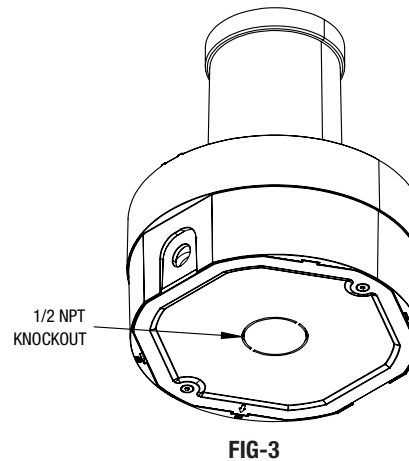
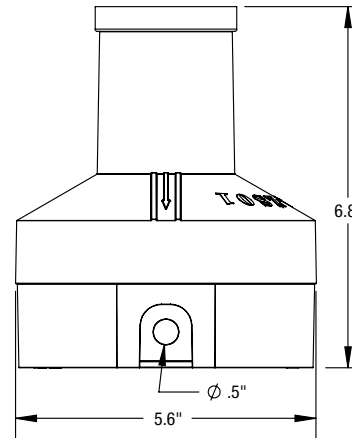
GENERAL:

1. Luminaire must be installed by licensed electrician.
2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

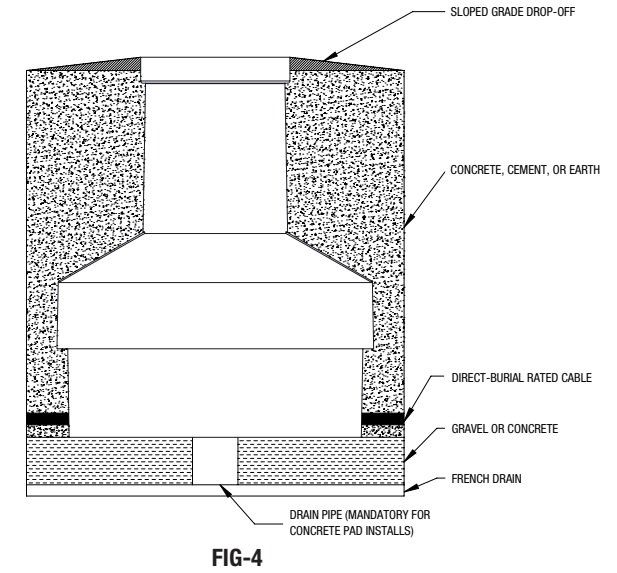
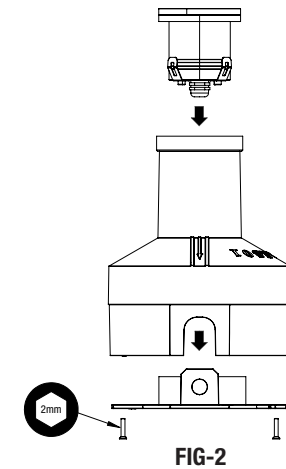
NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

- 1) See **FIGURE 1** for typical well housing size typical dimensions are same for all sizes on inground luminaires. Prior to install, remove the bottom plate from the housing via the two screws on the underside of the well housing. **FIGURE 2.**
- 2) If desired, the bottom plate has a 1/2 NPT sized knockout. Remove the knockout on the well housing as needed. **FIGURE 3.**
- 3) **Make sure proper drainage is arranged to avoid accumulation of water. French drain required. If installed upon a concrete pad, a drainage pipe must be added. FIGURE 4.**
 - a. **NOTE:** If digging into existing construction, clear at least a 7" diameter hole.
 - b. **NOTE:** Heavy-Duty Walk over compliant up to 1000 kg (approximately 2,204 lbs) in adequate to supported ground material.



DETAILED ILLUSTRATION



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INSTALLATION INSTRUCTIONS:

- 4) Reference **FIGURE 5, 6 and 7** for proper grade filling guidelines.
 - a. **WARNING:** Improper install will result in voided warranty.

NOTE: FIGURE 5 (Well Housing flush with grade) is required for Heavy-Duty Walk over compliant up to 1000 kg (approximately 2,204 lbs) in adequate to supported ground material.



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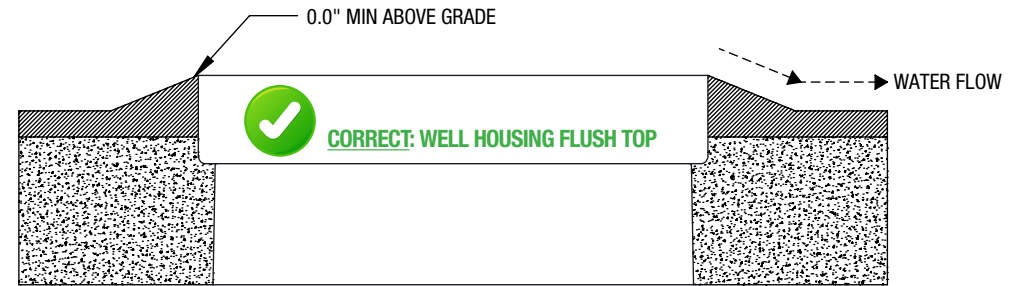


FIG-5

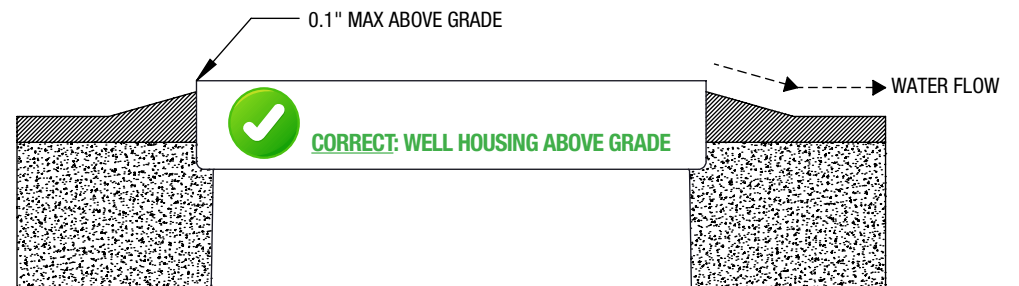


FIG-6

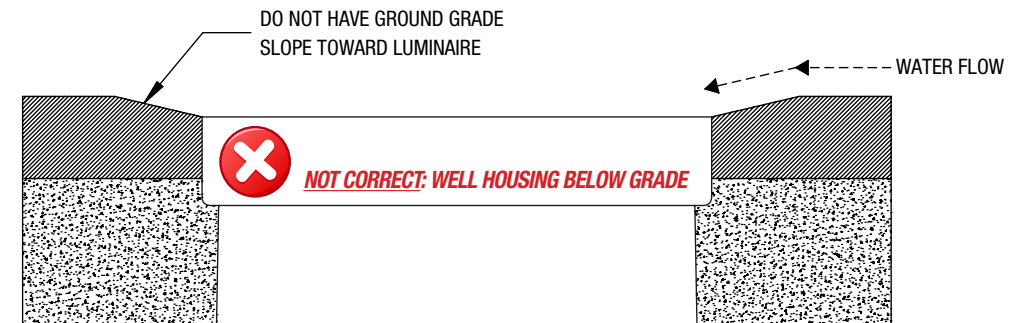


FIG-7

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INSTALLATION INSTRUCTIONS:

- 5) Feed direct burial wire through the holes located on the bottom plate.
 - a. Recommended Wire (sold by FC Lighting)
 - i. For 24 VDC: **E62902-XX**
 - ii. For 120 - 277 VAC: **E62905-XX**

NOTE: XX = Length in feet, please specify when ordering.
 - b. Alternative Wire (sold by others)
 - i. For 24 VDC: HELUKABEL 62902
 - ii. For 120 - 277 VAC: HELUKABEL 62905
- 6) Using the provided silicone wire nuts or optional 24VDC connectors (see installation accessories on spec sheet) follow the wiring diagram below.
 - a. 24 VDC **FIGURE 8**
 - BROWN or RED - VDC +
 - BLUE or BLACK - VDC –
 - b. 120 - 277 VAC **FIGURE 9**
 - BROWN or RED - VDC +
 - BLUE or BLACK - VDC –
 - BLACK - LINE
 - WHITE - NEUTRAL
 - GREEN - GROUND
 - PURPLE - DIM +
 - PINK - DIM –

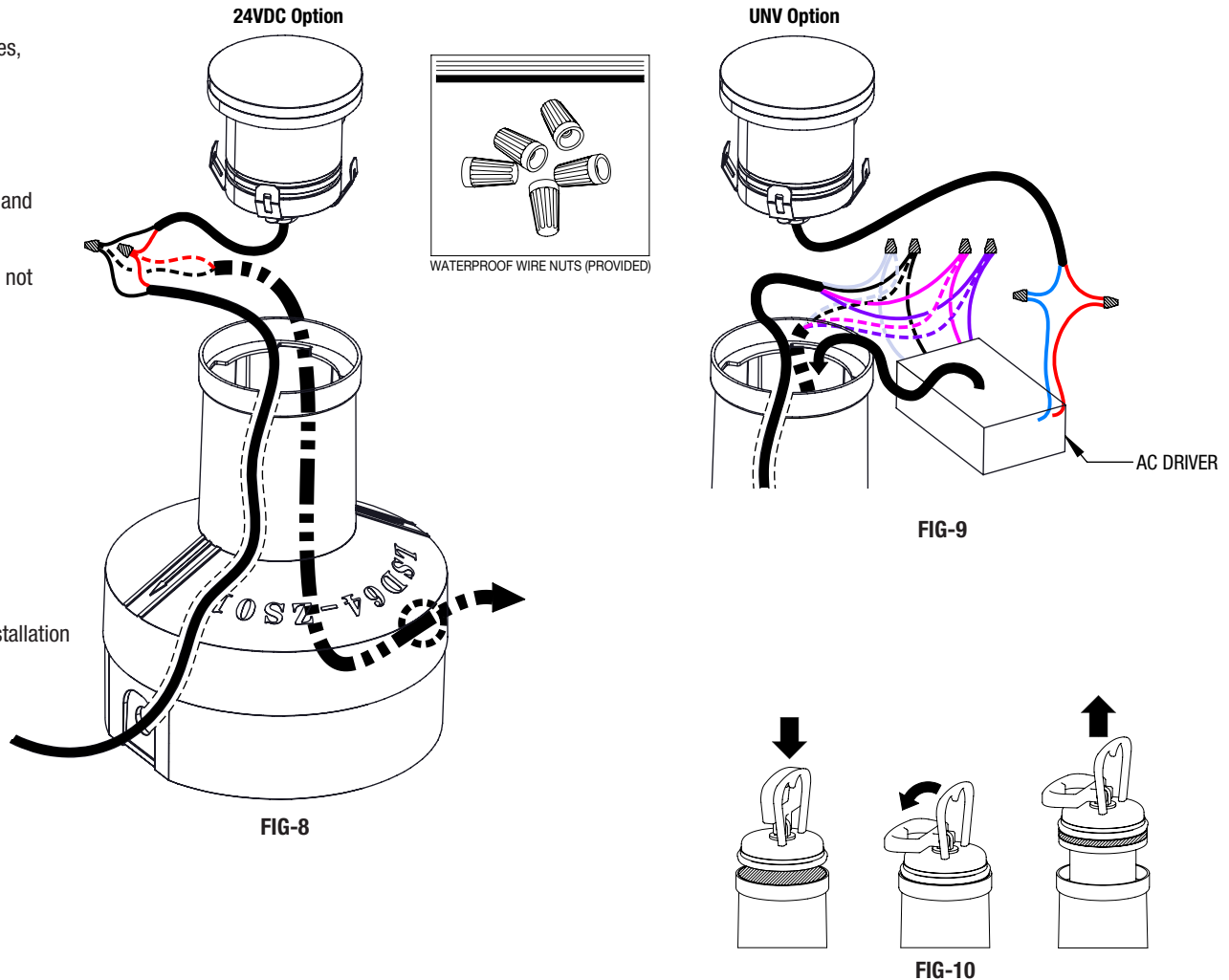
NOTE: Use the **FCI-T-ADJ** suction cup tool (part number: **FCI-T-SUCTION**) to remove the luminaire when you need access to the wiring. You can find this tool in the accessories ordering guide on the spec sheet. **FIGURE 10.**



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INSTALLATION INSTRUCTIONS:

- 7) If the adjustable gimbal option is selected, the luminaire can be aimed prior to install. **FIGURE 11.**
- 8) To adjust the gimbal, use the adjustment tool. **FIGURE 12.**
Sold separately, Part Number: **FCI-T-ADJ-TOOL**



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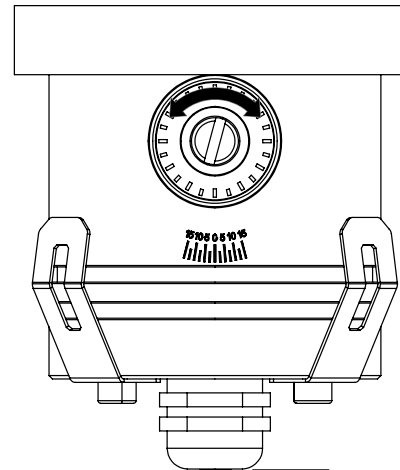


FIG-11

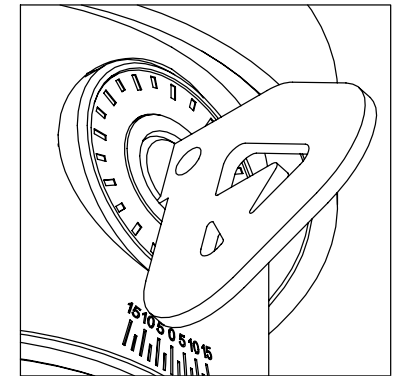
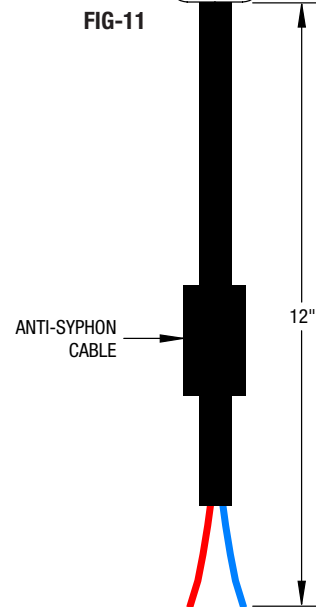


FIG-12

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INSTALLATION INSTRUCTIONS:

For 24 VDC luminaires, IP66 connectors are available for separate purchase.

(EW-P20-2P & EW-P20T-2P) FIGURE 13 and 14.

- 9) To operate the connectors, remove the wire-locking nut and the strain relief from the main waterproof connector body. Feed the burial-rated wire through the nut and the strain relief.

- 10) Connect the wires to the main body by operating the levers on the conductor.

FIGURE 15.

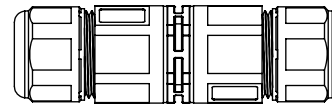
- a. **WARNING:** Consistent wiring is important for daisy-chaining luminaires. Failure to do so can reverse polarity and damage luminaires.

- 11) Tighten both the strain relief and the wire-locking nut back onto the main body.
The recommended tightening torque is provided below, when tightening the strain relief secure until it is completely snug, then turn the wire-locking nut until the internal rubber seal compresses the cabling and just begins to bulge slightly.
 - a. **Strain Relief** - 1.5 to 3.0 N·m (13 to 26 in-lbs),
28mm (1-1/8" wrench) HEX SIZE
 - b. **Wire-Locking Nut** - 0.8 to 1.5 N·m (7 to 13 in-lbs),
26.5mm (1-1/16" wrench) HEX SIZE

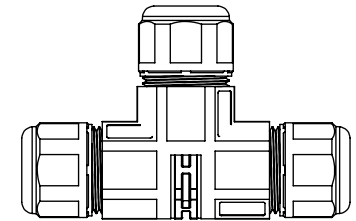


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DETAILED ILLUSTRATION



2-WAY CONNECTOR
EW-P20-2P
FIG-13



3-WAY CONNECTOR
EW-P20T-2P
FIG-14

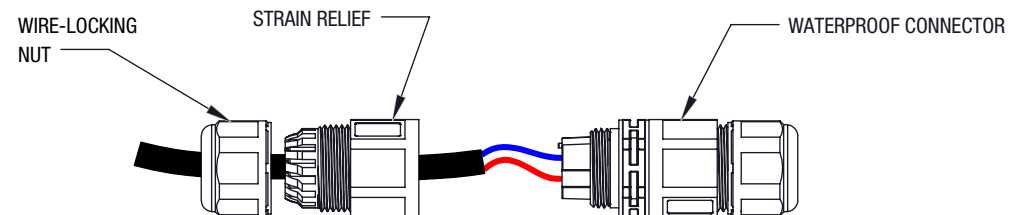


FIG-15

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INSTALLATION INSTRUCTIONS:

- 12) Consult Maximum Wiring Distance Table (left) when calculating total distance and luminaires in daisy chain.
- 13) Calculate maximum quantity of luminaires in a run by adding up the total wattage of all the luminaires in a run and then comparing it to the wattage of the driver selected by consulting the Driver Table (middle left).
- 14) Using either the provided silicone wire nuts or waterproof connectors, connect all luminaires in a run following the wiring instructions on previous pages. **FIGURE 16.**

WARNING: Failure to use direct burial cable can result in water ingress and luminaire failure. Consult wiring information prior to installation.



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MAXIMUM WIRING DISTANCE (Feet)					
WIRE SIZE	10AWG (5.6mm ²)	12AWG (3.3mm ²)	14AWG (2.0mm ²)	16AWG (1.3mm ²)	18AWG (0.78mm ²)
UNV (120 - 277 VAC)	357	210	137	85	54
30W (24VDC)	480	282	185	114	73
60W (24VDC)	300	176	115	71	45
100W (24VDC)	120	71	46	29	18

NOTE: Power Supply to be selected based on 80% Load. i.e. Use 100W supply to power 16pcs of 05W lights, 80W total. Use MAXIMUM WIRING DISTANCE table to prevent Voltage Drop from Supply to the last luminaire on single run.

INTERIOR - REMOTE 24VDC POWER OPTIONS – Dry, Damp, Wet Location UL Listed
Dimming TD Standard - Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only)

___ DRR-UNV-24VDC-30W-TD
___ DRR-UNV-24VDC-60W-TD
___ DRR-UNV-24VDC-96W-TD

EXTERIOR - REMOTE 24VDC POWER OPTIONS – IP66, IP67, IP69 UL Listed
Dimming TD Standard - Tri-Dim (1%, 0-10V, 120 - 277 VAC), (1%, TRIAC & ELV, 120 VAC Only)

___ DRX-UNV-24VDC-30W-TD
___ DRX-UNV-24VDC-60W-TD
___ DRX-UNV-24VDC-96W-TD

