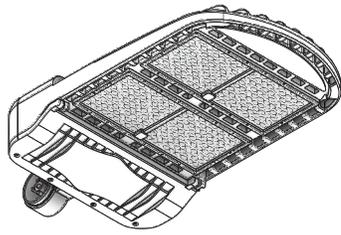
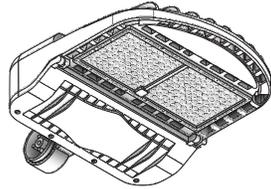


Initial Set-up and Optional Controls



FALC200, FALC240, FALC300



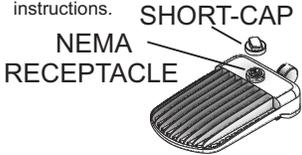
FALC080, FALC100, FALC150

CAUTION: PLEASE FOLLOW THIS INSTRUCTION MANUAL CAREFULLY TO PREVENT ANY INJURIES OR COMPLICATIONS THAT MAY ARISE.
WARNING: Before installing or maintaining the luminary, make sure all power is **TURNED OFF**.
 Verify that supply voltage is correct by comparing it with the label information on all fixtures.
 Make all connections in accordance with the NEC requirements, and make sure all luminaries are properly secured to prevent any wire complications. This luminary is to always be installed with the lens facing down and it is not to exceed the maximum ambient temperature rating noted on the specification sheet.

FALC Initial Set-Up

Set the Short-Cap on the NEMA Receptacle correctly. Install the Short-Cap provided by pressing down and twisting CW.

Note: If Photocell Sensor is provided see the following for instructions.

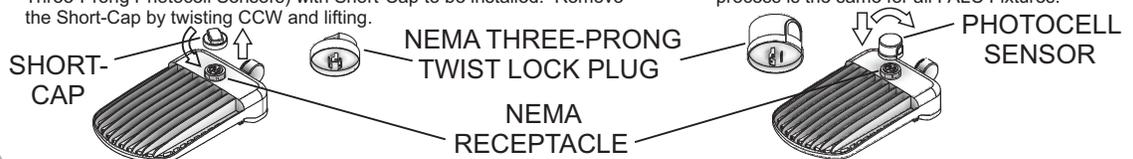


Optional Photocell Sensor

The Photocell Sensor has a Dusk to Dawn functionality. The Photocell Sensor can be easily field installed on all FALC fixtures as shown below. Note: If the Photocell Sensor is not included the following steps can be skipped. If the Photocell Sensor is included prior to field installation, Step 1 can be skipped.

1 Turn over the FALC Fixture showing the Fin side. All FALC Fixtures come with a NEMA Seven-Prong Twist Lock receptacle (Compatible with Three-Prong Photocell Sensors) with Short-Cap to be installed. Remove the Short-Cap by twisting CCW and lifting.

2 Place the Photocell Sensor on the NEMA receptacle. Push down and twist CW. The process is the same for all FALC Fixtures.

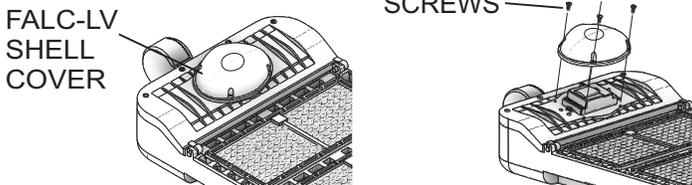


Optional Microwave Motion Sensor(FALC-LV-MS ONLY)

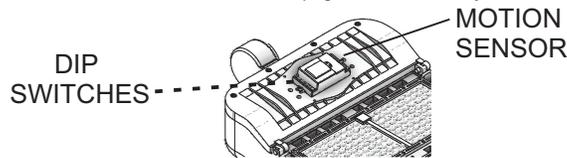
The Integrated Microwave Motion Sensor is a programmable motion detector. This is only for the FALC-LV-MS models ONLY. The default factory settings are as follows: Detection Area=100%, Hold Time=5 sec, Stand-By Period=5 sec, Stand-By Dimming Level=10%, and Daylight (Photo) Sensor=Disable.

Note: If the Microwave Motion Sensor is not included or adjustment is not needed, the following steps can be skipped.

1 Turn over the FALC Fixture showing the Lens side. Remove the Screws (4) from the Shell Cover. Then remove the Shell Cover from the FALC Fixture. The Motion Sensor is now open to adjust (if needed) the setting. The process is the same for all FALC-LV-MS fixtures.



2 The default settings can be changed by adjusting the DIP Switches on the Motion Sensor. Please refer to the table on this page and also directly on the Motion Sensor.



Microwave Motion Sensor DIP Pin Setting

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application as seen below.

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	10%

	3	4	5	
I	ON	ON	ON	45
II	ON	ON	-	30
III	ON	-	ON	15
IV	ON	-	-	5
V	ON	ON	-	20min
VI	ON	-	-	5min
VII	-	-	-	5sec

	6	7	8	
I	ON	ON	ON	55
II	ON	ON	-	40
III	ON	-	ON	20
IV	ON	-	-	10
V	ON	ON	-	15min
VI	ON	-	-	5min
VII	-	-	-	5sec

	1	2	3	4
I	-	ON	ON	2Lux
II	-	ON	-	10Lux
III	-	-	ON	25Lux
IV	-	-	-	50Lux
V	ON	-	-	100Lux
VI	ON	ON	-	200Lux
VII	ON	-	-	500Lux

	5	6	
I	ON	ON	50%
II	-	ON	30%
III	ON	-	20%
IV	-	-	10%

Detection Area

Detection area having motion and not enough ambient light will activate the sensor. The sensor can be set at 100%, 75%, 50%, or 10%.

Hold Time

Hold Time refers to the time period the fixture remains at 100% illumination after motion is detected. Hold Time can range from 5s to 20 minutes. The fixture will remain at full illumination until 'Hold Time' ends, then reducing to Stand-By Dimming Level.

Stand-By Period

The Stand-By period begins when the 'Hold Time' ends. The fixture remains at a Stand-By Dimming Level before it completely switches off while motion is not present. When set to "+∞" mode, the low led light is held until motion is detected.

Daylight (Photo) Sensor

The Daylight Sensor, measured in LUX can be set to allow the fixture to illuminate below a surrounding minimum ambient brightness threshold. The sensor can be set from 2 to 100 LUX. When set to Disable mode, the Daylight Sensor will switch on the fixture when motion is detected regardless of ambient light.

Stand-By Dimming Level

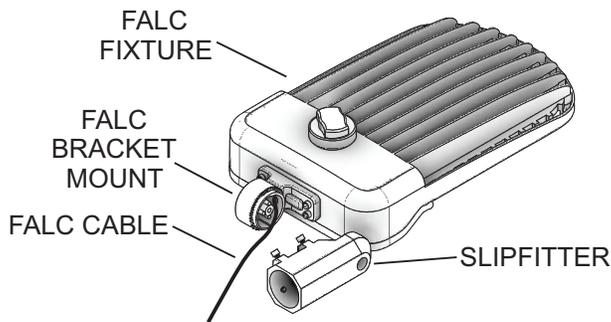
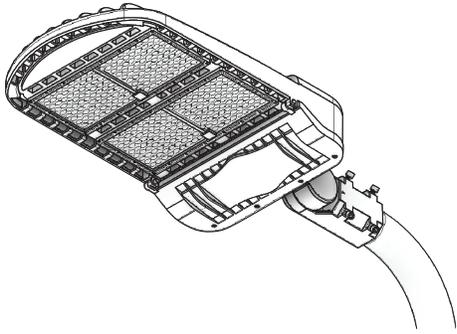
Stand-By Dimming Level is when 'Hold Time' has ended, there is no movement in the area and the light output is reduced. The Stand-By Dimming Level can be set at 50%, 30%, 20%, or 10%.

Connect the ACL and the ACN from the FALC Fixture to the conduit with the AC Power Supply Cable. Follow the Wiring Diagram provided.

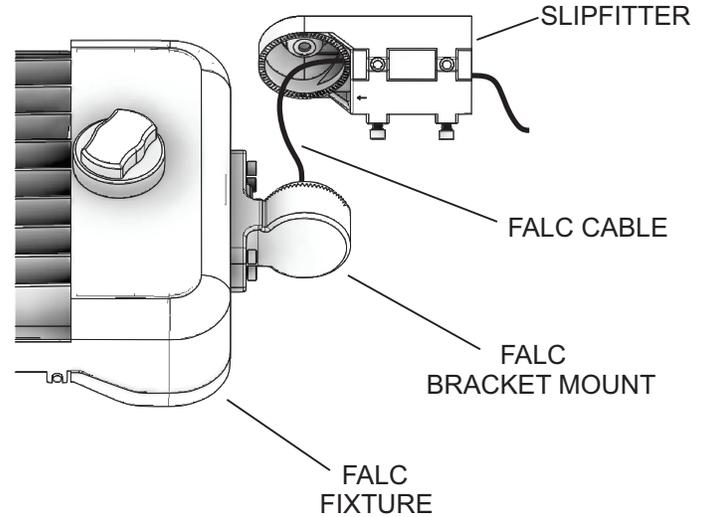
AC Power Supply



AC-ALC-SF Slipfitter Mount

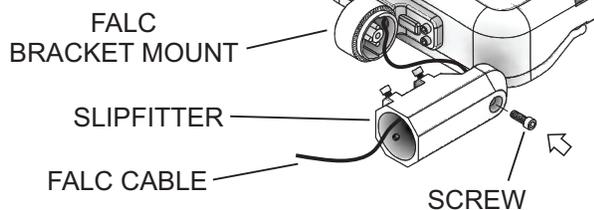


1 All FALC fixtures have one Cable coming from the luminaire.

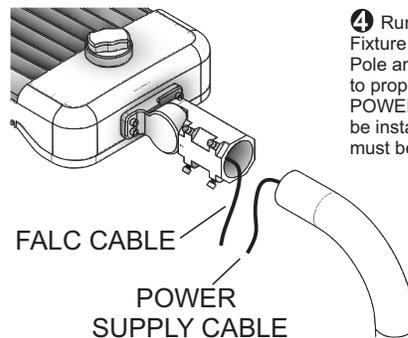


2 Run the FALC CABLE through the inside of the SLIPFITTER and out the end.

3 Align the teeth from the FALC Bracket Mount with the teeth on the SLIPFITTER. Use Caution with the FALC Cable during assembly. Use a wrench to install the SOCKET HEAD SCREW and assemble the AC-ALC-SF SLIPFITTER.

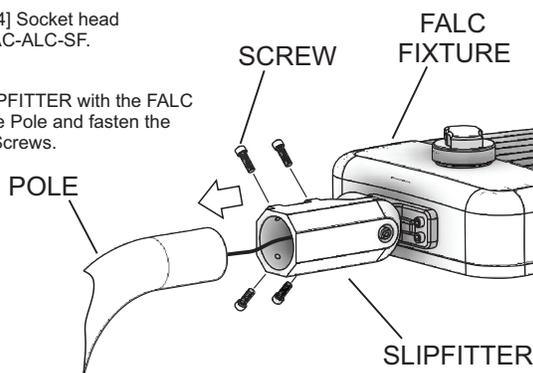


4 Run the FALC Cable from the FALC Fixture and the SLIPFITTER MOUNT to the Pole and follow the Wiring Diagram provided to properly install the light fixture to the POWER SUPPLY CABLE. All wiring must be installed by a certified electrician and must be compliant to NEC standards.



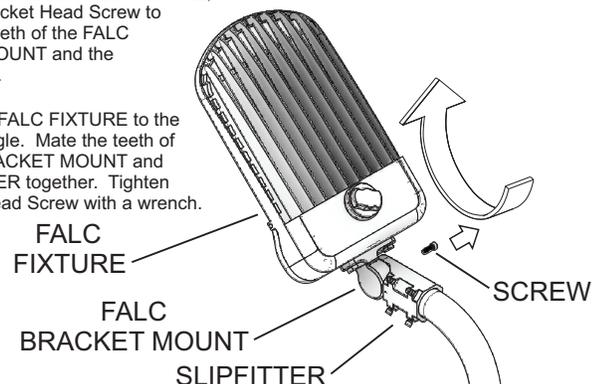
5 Remove the [4] Socket head screws from the AC-ALC-SF.

6 Insert the SLIPFITTER with the FALC FIXTURE onto the Pole and fasten the [4] Socket Head Screws.

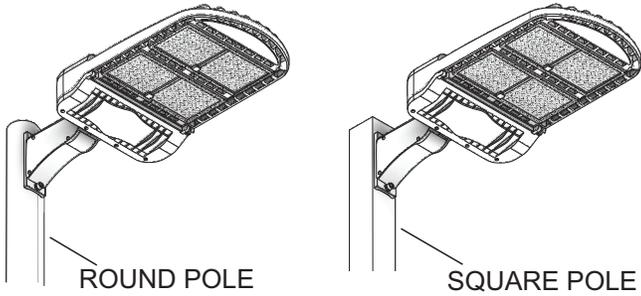


7 If needed to tilt the FALC FIXTURE, loosen the Socket Head Screw to unmate the teeth of the FALC BRACKET MOUNT and the SLIPFITTER.

8 Move the FALC FIXTURE to the desired tilt angle. Mate the teeth of the FALC BRACKET MOUNT and the SLIPFITTER together. Tighten the Socket Head Screw with a wrench.



AC-ALC-AM can be used on a Round Pole or a Square Pole

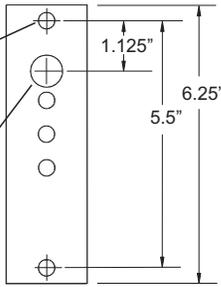


AC-ALC-AM Arm Mount (Round or Square Pole)

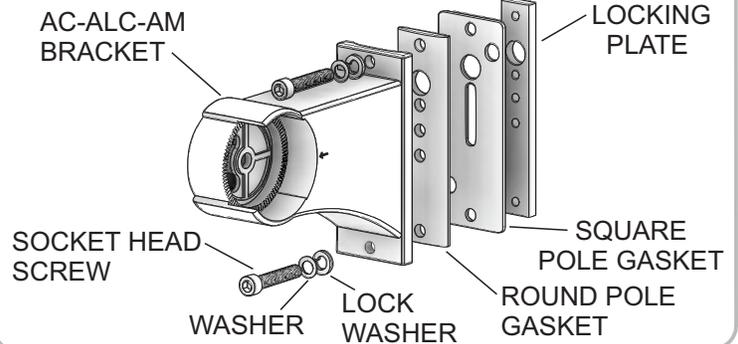
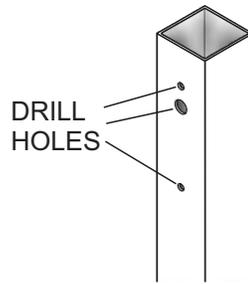
DRILLING TEMPLATE

Ø 0.375" Clearance holes on pole to align with Locking Plate hole locations

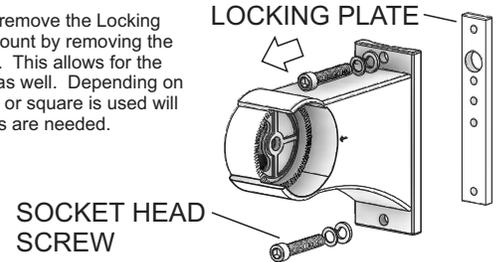
Ø 0.69" Run Power Supply Cable through this hole opening into the Arm Mount



1 Drill holes on the square pole by following the Drilling Template to mount the FALC to the desired height.

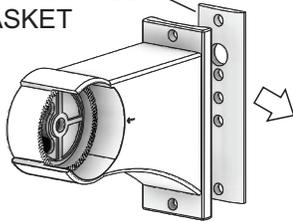


2 Prior to installing remove the Locking Plate from the Arm Mount by removing the Socket Head Screws. This allows for the parts to be removed as well. Depending on whether a round pole or square is used will determine which parts are needed.



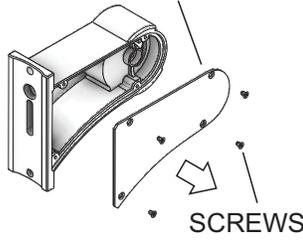
3 If the FALC fixture is being installed to a square pole, remove the round pole gasket.

ROUND POLE GASKET

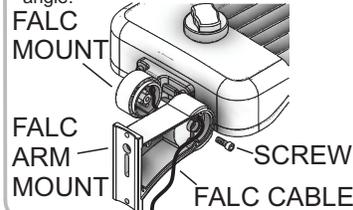


4 Remove the [4] Flat-Head Machine Screws and the Side Plate before installing into the FALC Fixture.

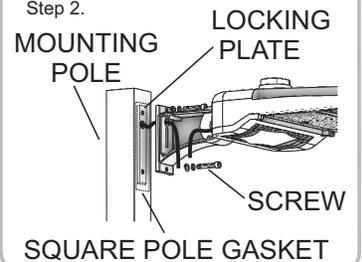
SIDE PLATE



5 Run the FALC Cable through the inside the Arm Mount. Align the hole and teeth from the Arm Mount with the FALC Bracket Mount and use the Socket Head Screw to fasten them together at the appropriate Fixture tilt angle.



6 Place the lock plate and gasket inside the Mounting Pole and fasten the FALC Fixture onto the pole with the Socket Head Screws removed in Step 2.

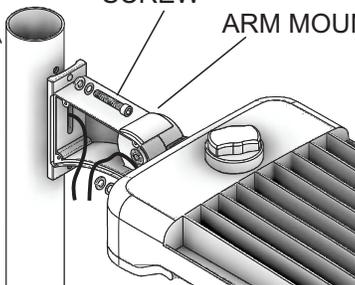


7 For the Round Pole, repeat Steps 1-6 the same as a Square Pole, except the round pole gasket will still be attached to the ARM MOUNT.

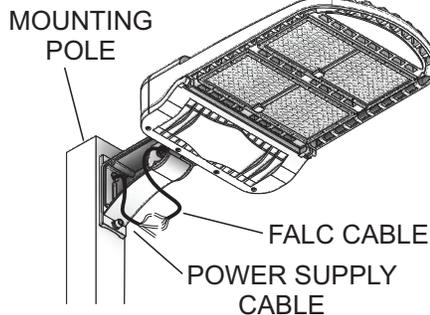
POLE

SOCKET HEAD SCREW

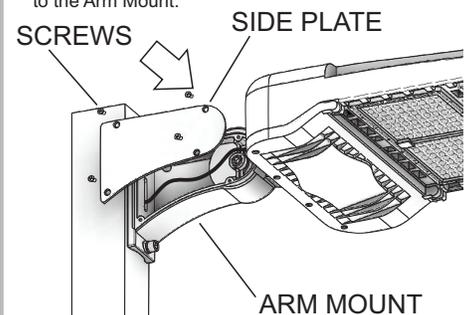
ARM MOUNT

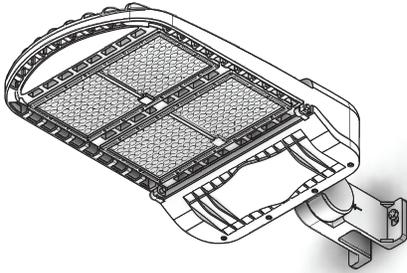


8 Run the Power Supply Cable inside the Mounting Pole through the 3/8" clearance hole and into the Arm Mount. Follow the Wiring Diagram to properly connect the FALC Fixture.



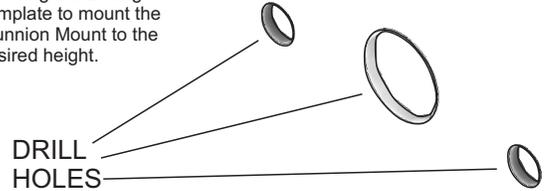
9 All wiring must be installed by a certified electrician and must be compliant to NEC standards. Once all wiring is properly installed fasten the SIDE PLATE back to the Arm Mount.



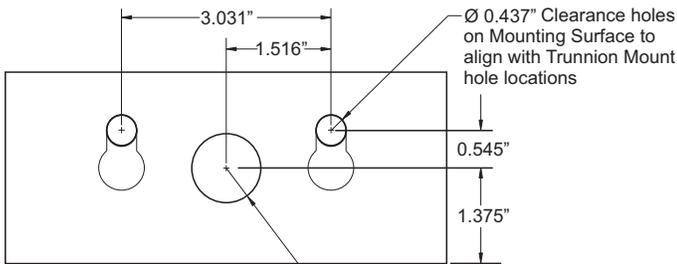


AC-ALC-TM Trunnion Mount

1 Drill holes on the Mounting Surface by following the Drilling Template to mount the Trunnion Mount to the desired height.

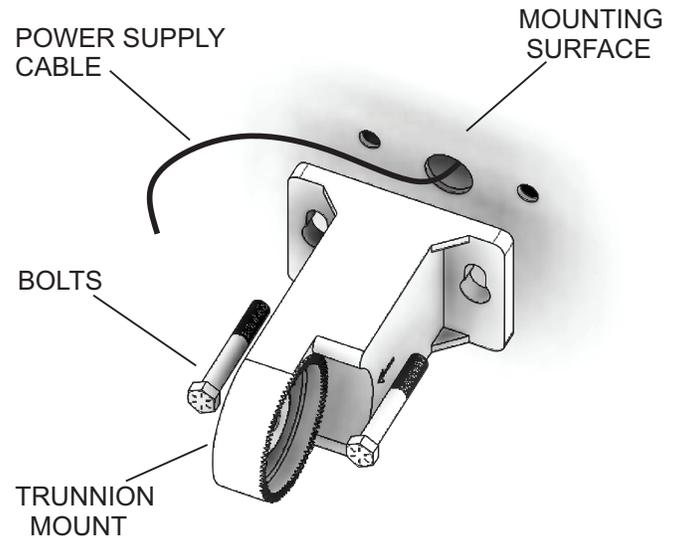


DRILLING TEMPLATE

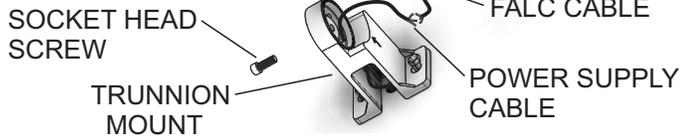


(Optional) This hole is only necessary if the power supply cable will be coming out the wall.

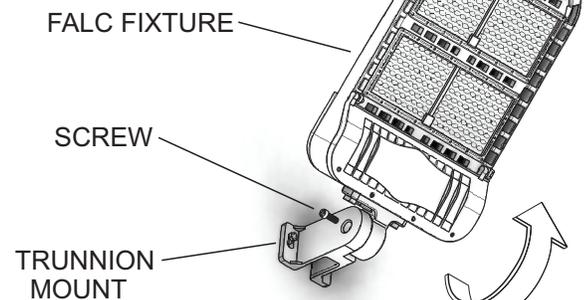
2 If the Power Supply Cable is coming from the wall, the Power Supply Cable will run through the center of the Trunnion Mount. Then, mount the Trunnion Mount onto the Mounting Surface using the appropriate mounting Bolts.



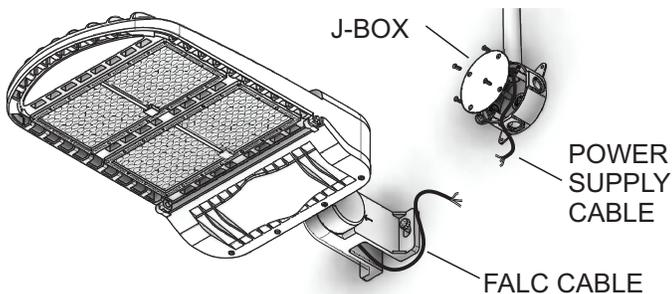
3 Align the teeth from the FALC Bracket Mount to the Trunnion Mount. Use the Socket Head Screw to fasten them together. You can connect the FALC Cable to the Power Supply without using a Junction Box only if used with a weather proof connector.

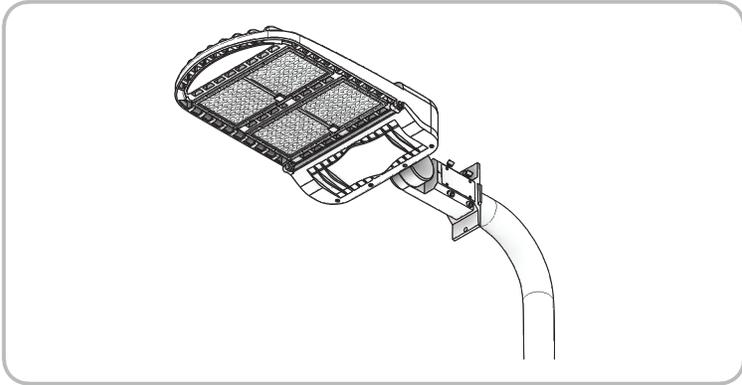


5 Once the FALC Fixture is properly secured to the Trunnion Mount, adjust the fixture to the desired tilt angle and fasten the Socket Head Screw.



4 If the Power Supply Cable is ran from a Conduit, the FALC Cable must be fed into a Junction Box specific for outdoor applications. All wiring must be done inside the J-BOX and all cables must be fed through a water proof connector.





AC-ALC-3M 3-in-1 Universal Mount (as Slipfitter)

STANDARD INSTALLATION STEPS

1 All FALC fixtures have one Cable coming from the luminaire. Carefully run the cable through the Universal Mount.

2 Run the FALC CABLE through the Universal Mount and align the teeth from the FALC Bracket Mount with the teeth on the Universal Mount.

3 Use a wrench, to fasten the Socket Head Screw. Use Caution with the FALC Cable during assembly with the Universal Mount.

4 Remove the [4] Flat-Head Machine Screws and the Side Plate before installing onto the Pole to slide the cables through.

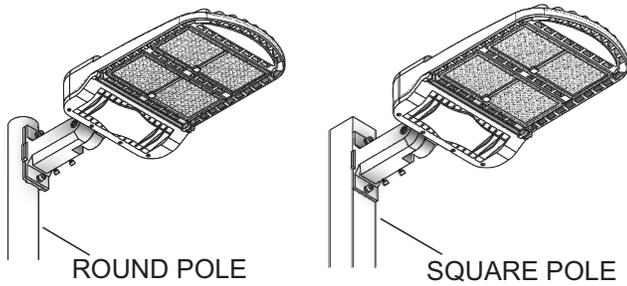
5 Remove the [4] Socket Head Screws from the Trunnion Mount.
6 Insert the Universal Mount onto the Pole and fasten the [4] Socket Head Screws.

7 Run the FALC Cable to the Power Supply Cable from the Pole and follow the Wiring Diagram provided to properly install the FALC Fixture. All wiring must be installed by a certified electrician and must be compliant to NEC standards.

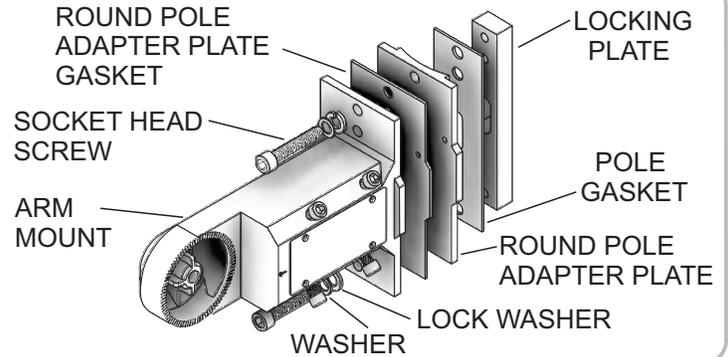
8 If needed to tilt the FALC Fixture loosen the Socket Head Screw and unmate the teeth of the FALC Bracket Mount and the Universal Mount. Rotate the FALC Fixture to the desired tilt angle. Mate the teeth of the FALC Bracket Mount and the Universal Mount together and fasten the Socket Head Screw.

9 All wiring must be installed by a certified electrician and must be compliant to NEC standards. Once all wiring is properly installed fasten the Side Plate and Gasket back to the Arm Mount.

AC-ALC-3M can be used on a Round Pole or a Square Pole



AC-ALC-3M 3-in-1 Universal Mount (as Arm Mount)

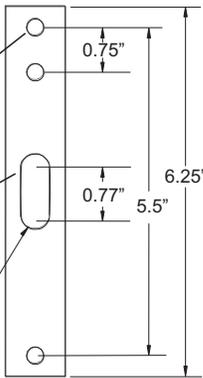


DRILLING TEMPLATE

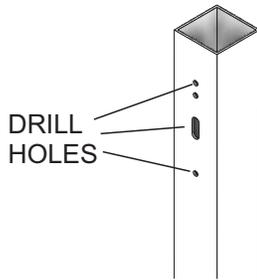
Ø 0.375" Clearance holes on pole to align with Locking Plate hole locations

Run Power Supply Cable through this slot opening into the Arm Mount

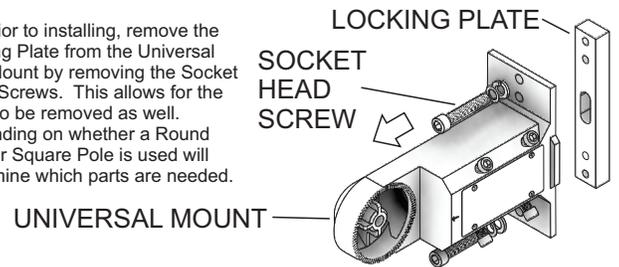
R.24"



1 Drill holes on the square pole by following the Drilling Template to mount the FALC Fixture with the Universal Arm Mount to the desired height.

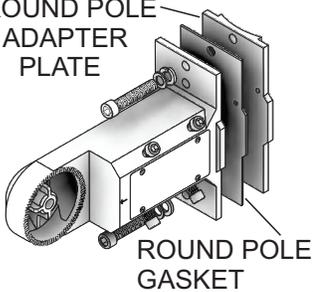


2 Prior to installing, remove the Locking Plate from the Universal Arm Mount by removing the Socket Head Screws. This allows for the parts to be removed as well. Depending on whether a Round Pole or Square Pole is used will determine which parts are needed.

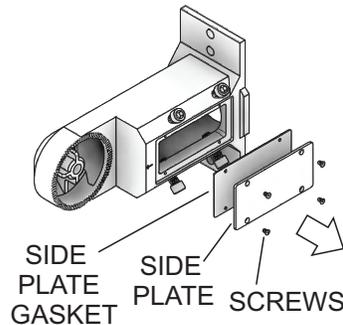


3 Note: If the FALC Fixture is being installed to a round pole this step can be skipped. Remove the Round Pole Adapter Plate and Gasket.

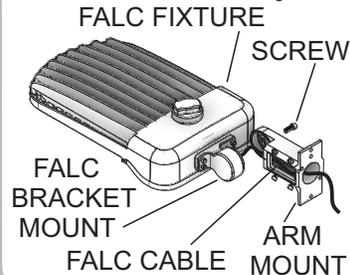
ROUND POLE ADAPTER PLATE



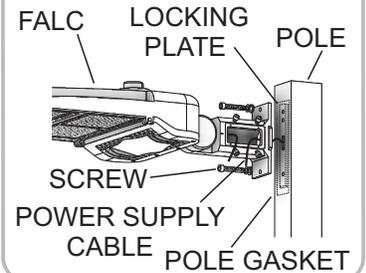
4 Remove the [4] Flat-Head Machine Screws and the Side Plate before installing into the FALC Fixture.



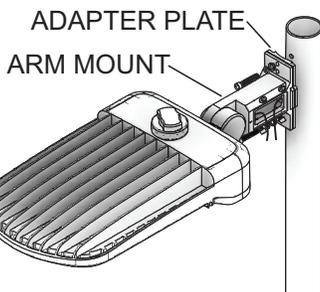
5 Run the FALC Cable through the inside of the Arm Mount. Align the hole and teeth from the Arm Mount with the FALC Bracket Mount and use the Socket Head Screw to fasten them together at the desired FALC Fixture tilt angle.



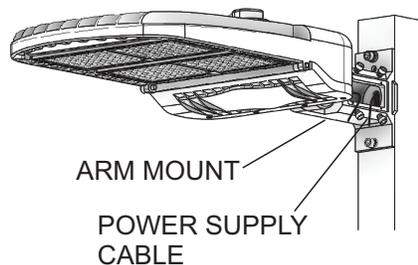
6 Place the Locking Plate and Gasket inside the Mounting Pole. Run the Power Supply Cable through the 0.48" clearance Slot and fasten the FALC Fixture onto the Mounting Pole with the Socket Head Screws removed in Step 2.



7 For the Round Pole, repeat Steps 1-6 the same as a Square Pole, except the Round Pole Adapter Plate will still be attached to the Arm Mount.

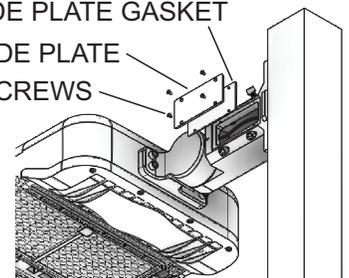


8 Attach the FALC Cable to the Power Supply Cable. Follow the Wiring Diagram to properly connect the FALC Fixture.

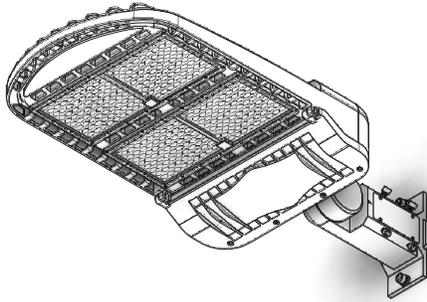


9 All wiring must be installed by a certified electrician and must be compliant to NEC standards. Once all wiring is properly installed fasten the Side Plate and Gasket back to the Arm Mount.

SIDE PLATE GASKET



AC-ALC-3M 3-in-1 Universal Mount (as Trunnion Mount)



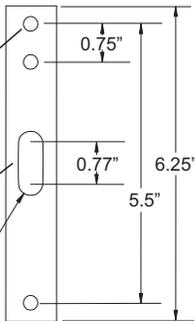
2 Remove the [4] Flat-Head Machine Screws and the Side Plate before installing onto the FALC Fixture.

DRILLING TEMPLATE

Ø 0.375" Clearance holes on pole to align with Locking Plate hole locations

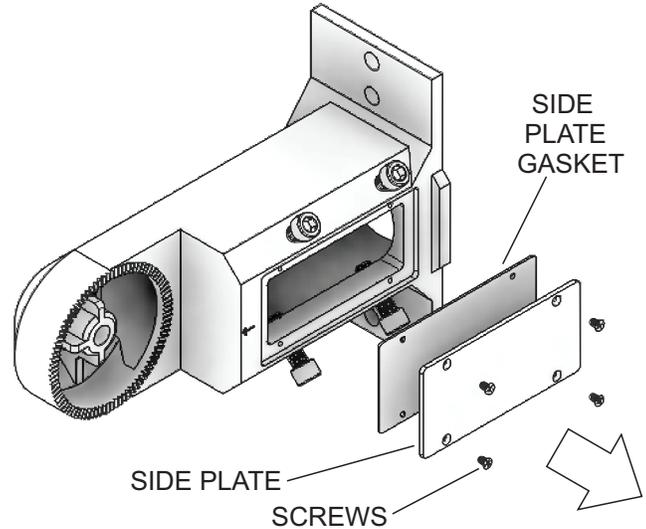
Run Power Supply Cable through this slot opening into the Arm Mount

R.24"



1 Drill holes on the Mounting Surface by following the Drilling Template to mount the Trunnion Mount to the desired height.

DRILL HOLES/
SLOT



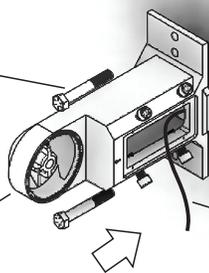
3 If the Power Supply Cable is coming from the wall, the Power Supply Cable will run through the center of the Trunnion Mount. Fasten the Trunnion Mount to the Mounting Surface using the appropriate mounting Bolts (not included).

MOUNTING SURFACE

BOLTS

TRUNNION MOUNT

POWER SUPPLY CABLE



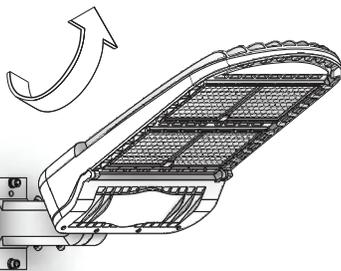
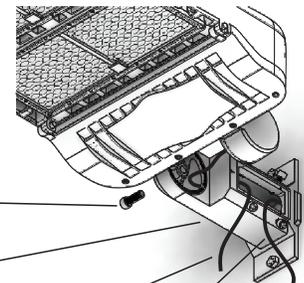
4 Align the teeth of the FALC Bracket Mount to the Trunnion Mount. Use a wrench to fasten the Socket Head Srew to the Trunnion Mount and the FALC Bracket Mount. You can connect the FALC Cable to the Power Supply without using a Junction Box only if used with a weather proof connector.

SCREW

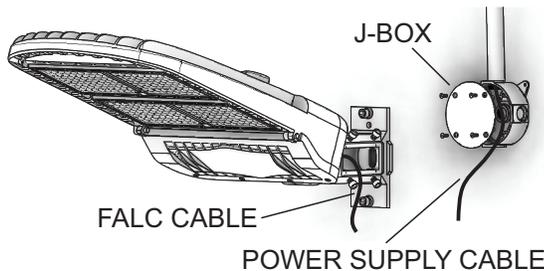
TRUNNION MOUNT

FALC CABLE

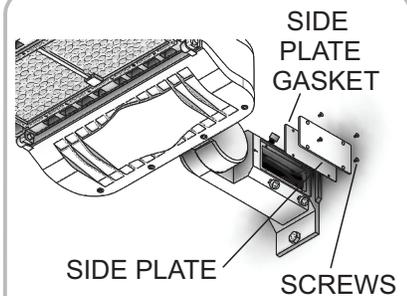
POWER SUPPLY CABLE



5 Adjust the tilt angle on the FALC Fixture to the desired location. Tighten the Socket Head Screws with a wrench to keep the fixture in place.



6 If the Power Supply Cable is coming from a Junction Box the FALC Power Cable must be fed into a Junction Box specific for outdoor applications. Follow the wiring diagram provided for installation. All wiring must be done inside the J-box and must be fed through a water-proof connector. All wiring must be installed by a certified electrician and must be compliant to NEC standards.



7 Once all wiring is properly installed fasten the Side Plate and Gasket back to the Trunnion Mount.