



**CONSTRUCTION-DL-21-BRS:** Cast brass Bullet; adjustable cast brass swivel  
**DL-21:** Cast aluminum Bullet; adjustable cast aluminum swivel  
**CDL-21:** Composite Bullet; adjustable composite swivel

**DL-21, CDL-21:** High impact clear tempered glass

**LAMP:** 20 watt MR16 FL (BAB) 50w max. (20w max. on CDL-21) 5000 hours average rating

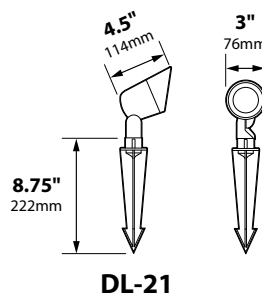
**SOCKET:** High temperature ceramic GU5.3 bi-pin with 250° C silicone lead wires

**WIRING:** Black 3 foot 18/2 zip cord from base of fixture (12v. only)

**CONNECTION:** FA-05 Quick Connector (not supplied) from fixture to main cable (12/2, 10/2 or 8/2 only) 12v. only

**MOUNTING:** FA-03 9" ABS stake threaded 1/2" NPS

**FINISH-DL-21-BRS:** Unfinished brass—optional finishes available;  
**DL-21, CDL-21-BLT:** Black texture—optional finishes available;



CATALOG NO.	DESCRIPTION	EST. SHIP.WEIGHT
DL-21	3" MR16 Bullet Aluminum	2.0 lbs.
DL-21-BRS	3" MR16 Bullet Brass	3.0 lbs.
CDL-21	3" MR16 Bullet Composite	2.0 lbs.

Technical drawings of various FA-111 components and accessories, including antennas, couplers, and stem extensions, with dimensions in inches and millimeters.

**FA-01/BRS**  
 15" 381mm  
 1.63" 41mm

**FA-03/BRS**  
 2" 51mm  
 8.75" 222mm

**FA-03-LG**  
 3" 76mm  
 8.875" 225mm

**FA-05**  
 1.15" 29mm  
 0.8" 20mm  
 1.45" 37mm

**FA-111**

**FA-24-TREE**

**FA-30-4**  
 4" 102mm

**FA-30-8**  
 8" 203mm

**FA-24/BRS**  
 3" 76mm  
 0.9" 23mm

**FA-YAD**  
 2.2" 51mm

**FA-111-TREE (10"-41")**

**FA-22-TREE (10"-41")**

**C/FA-25/BRS**  
 20" 508mm  
 3" 76mm

**C/FA-26-75W/BRS**  
 20" 508mm  
 3" 76mm

**FA-22-BRS**  
 5.25" 133mm  
 3.25" 83mm

**FA-22-COP**  
 0.875" 20mm  
 4.6" 117mm

**FA-22**  
 2.9" 74mm  
 0.6" 15mm

**FA-24-LG-BRS**  
 4.5" 114mm  
 0.9" 23mm

**FA-24-LG-COP**

**FA-24-LG**

**FA-30**  
 10" 254mm

**FA-31**  
 13" 330mm

**FA-32**  
 15" 381mm

**FA-33**  
 21" 583mm

**FA-34**  
 26" 660mm

**STEM EXTENSIONS**  
 -BRS = Brass Models (Arrow: couplers)

The diagram illustrates four different glass lens options for the FA-11 series. Each option is represented by a circular icon with a specific pattern or color, accompanied by its dimensions and a label. The dimensions are given in inches and millimeters. The labels are FA-08-21, FA-11-BLUE/GREEN, FA-104, and FA-99. The FA-11-BLUE/GREEN and FA-104 options are also described as 'Round 1/8" Hex Cell Louver' and 'Blue Tempered Glass Lens' respectively.

Label	Dimensions	Description
FA-08-21	2" x 51mm	Hex Cell Louver
FA-11-BLUE/GREEN	2" x 51mm	Blue Tempered Glass Lens
FA-104	2" x 51mm	Blue Tempered Glass Lens
FA-99	2.25" x 57mm	Clear Tempered Glass Lens
FA-98	2.25" x 57mm	Wide Spread Tempered Glass Lens Softener

Feet	3	6	9	12
Meters	1	2	3	4
<b>Beam Width (ft.) (m)</b>	2.0 0.59	3.9 1.18	5.8 1.77	7.8 2.38
<b>foot-candles (lux)</b>	50.7 546	12.7 137	5.7 61	3.2 35

**FL-13-BAB-FG**

Type:	Date:
Job Name:	
Cat. No.:	
Lamp(s):	
Specifier:	
Contractor:	
Notes:	

**12v. fixtures:** 25 foot 16/2 fixture lead wire available; add **-25F** to catalog number. For use with Focus CPC or hub supplied by others.

FSA-00

Powder Coat Finishes	Black Texture (Standard)	Antique Verde	Bronze Texture	Camel	White Texture	Hunter Texture	Rust	Weathered Iron	Weathered Brown	Stucco	Rubbed Verde	Chrome Powder	Terra Cotta
Ordering Code	-BLT	-ATV	-BRT	-CAM	-WTX	-HTX	-RST	-WIR	-WBR	-STU	-RBV	-CPR	-TRC

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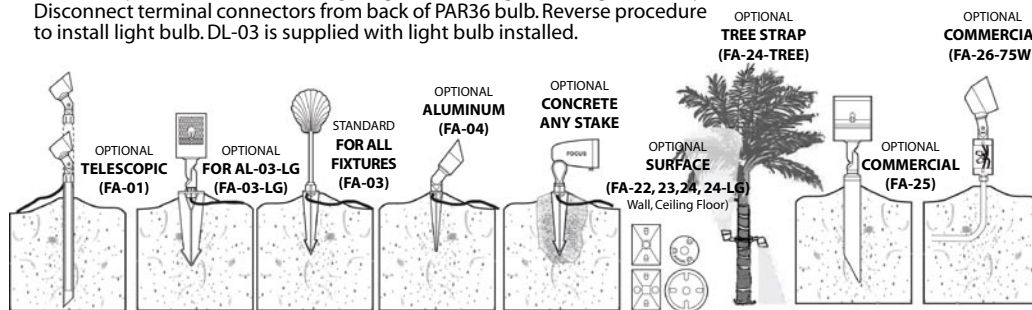


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## INSTALLATION INSTRUCTIONS (12V) FOR ALL 12V DIRECTIONAL FIXTURES

Inspected by

- 1) Thread Mounting device onto base of fixture. If using FA-03, press into ground & connect to main cable using FA-05 Quick Connector. (See Instructions). If using FA-02 or -04 same as above. If using FA-01, make sure the base PVC is free of dirt/debris to allow the inner tube to be adjusted as needed. A set screw is provided to set desired height. If using FA-25, you must dig a 10-12" dia. hole, 12-16" deep. Loop main cable into stake or run fixture wire out of bottom to main cable, make connection with FA-05 then back fill hole & wiring. If using FA-22, -23, -24, -24-LG canopies, secure with appropriate screws for mounting surface.
- 2) To re-lamp DL-01, 2, 2EC, 13, remove 2 Phillips head screws from lens cap. Pull MR-16 lamp out by the glass reflector, NOT center bulb. Insert/press new MR16 into socket. Carefully assemble lens cap & gasket on body aligning locator pin on cap with locator hole on body. Before tightening screws on cap, make sure gasket seats between body & cap. No gaps or holes. This will insure a weatherproof seal. DL-13, DL-20-MR16 have no gaskets. They have a slip fit & only one set screw for removal. Center lamp & align drain hole before tightening.
- 3) To re-lamp DL-03, twist retaining ring & removing, releasing the lamp. Disconnect terminal connectors from back of PAR36 bulb. Reverse procedure to install light bulb. DL-03 is supplied with light bulb installed.
- 4) To re-lamp DL-04,-H remove 2 Phillips head screws on left end plate. Rotate end plate down. Slide lens out. For S-8 lamp press and rotate counter clockwise, lamp will release. For T-3 or T-4 halogen, pull light bulb away from socket or release. To lamp you must align pins with socket for proper contact. The above fixtures are supplied with lamp installed & tested.
- 5) To re-lamp DL-05, press & rotate ALR12 lamp counter clockwise to release. It is recommended to lubricate lamp base w/petroleum jelly.
- 6) To re-lamp DL-06-NL, same as above but light bulbs will be ALR-12, ALR-18, or AR-70. Use same procedure as above. Lamp NOT installed.
- 7) To re-lamp DL-07, 8, 9, 11, 12, remove 2 Phillips head screws that retains clear lens. For S-8 lamp, press & rotate lamp counter clockwise. Lamp will release. For T-3 halogen pull light bulb away from socket to release. Above fixtures have lamp installed.
- 8) To re-lamp DL-21, loosen slotted set screw on bottom of cap. Hold body & cap with each hand. Pull & rotate to separate. Follow DL-01 re-lamping procedures above. Note ALL MR-16 fixtures are supplied in separate boxes to avoid damage in shipping. Bulbs are NOT installed.



NOTE: All mounting stakes can be pressed or hammered into the ground with a standard hammer or rubber mallet. A small block of wood is recommended to give you a larger surface to pound. Always leave the top 1" section of the stake above ground to help isolate the metal from potentially corrosive soils. Fixture wire (18/2) should be buried underground to prevent detachment & have a cleaner look. For a more permanent mount, you can set the stake in concrete or use FA-25 commercial mounting pedestal.

### IMPORTANT SAFETY INSTRUCTIONS TO REDUCE THE RISK OF FIRE AND INJURY TO PERSONS:

- 1) Lamp gets hot quickly; turn off/unplug/disconnect and allow to cool down before replacing the bulb.
- 2) DO NOT touch hot lens, guard or enclosure
- 3) DO NOT look into lamp when on
- 4) Keep lamp away from materials that may burn
- 5) Use only with wattage/lamp marked on fixture warning or instructions.
- 6) Use right light bulb base w/right socket
- 7) DO NOT touch the lamp at any time. Use a lint-free cloth when handling bulb as oil from skin may damage lamp and shorten lamp life.
- 8) DO NOT operate fixture with missing/damaged shield.

For Questions Call 1-888-882-1350