

DL-B SERIES LED BOLLARDS

Installation, Configuration and Accessory Guide

DirectLED Model: DL-B Series

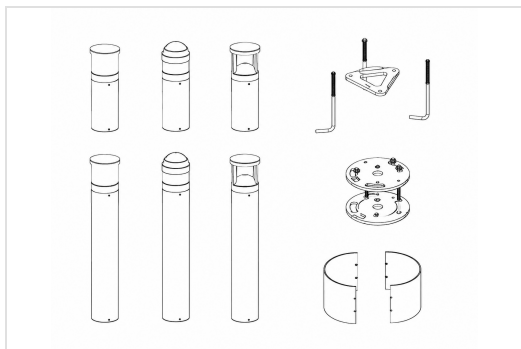
This guide applies to the DL-B Series bollard family, including symmetric and directional optical configurations, standard anchor-bolt mounting, optional retrofit mounting and the optional 180° spill shield.

SECTION 1 — IMPORTANT SAFETY INFORMATION

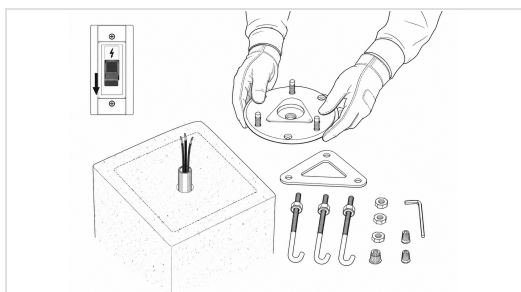
WARNING · TURN POWER OFF BEFORE INSTALLATION OR SERVICE.

- Installation and service must be performed by qualified personnel.
- Read all instructions before beginning and retain this guide for future reference.
- Follow the National Electrical Code and all applicable local codes.
- Confirm that the supply voltage is compatible with the fixture.
- The fixture must be properly grounded.
- Use listed waterproof connectors suitable for the installation location.
- Verify that all electrical connections are enclosed and protected from moisture.
- Never connect the pink 0–10V dimming conductor to ground.
- Do not make wattage, CCT or photocell adjustments while the fixture is energized.

SECTION 2 — BEFORE YOU BEGIN

**01**

Confirm the DL-B Series model, bollard height, optical head, voltage, optional spill shield and mounting method. Select either the standard anchor-bolt installation or the retrofit-plate installation.

**02**

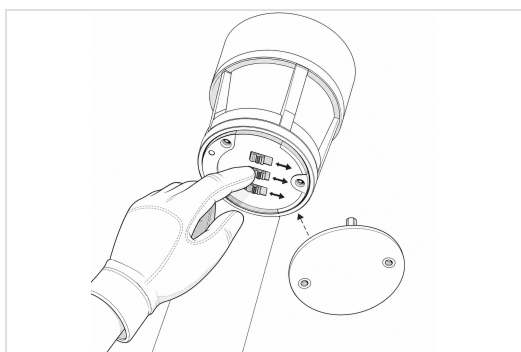
Turn power OFF at the electrical panel. Verify the concrete location, conduit position, supply conductors, dimming requirements and supplied mounting hardware.

SECTION 3 — CONFIGURE THE FIXTURE

Complete these settings before installing the optical head, where the controls may become difficult to access.

**03**

Remove the sealed selector-switch cover plug from the bollard head.

**04**

Select the required wattage, color temperature and photocell setting. Available source settings are 14W, 19W or 24W; 3000K, 4000K or 5000K; and photocell ON or OFF. Reinstall and seal the cover plug.

SECTION 4 — CHOOSE ONE MOUNTING METHOD

METHOD A**NEW CONCRETE FOUNDATION**

Anchor-bolt carrier

Proceed to Steps 05–07

OR

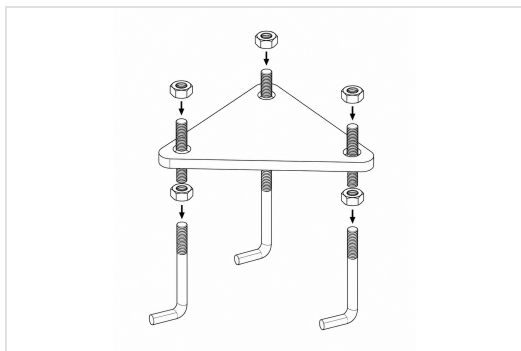
METHOD B**EXISTING CONCRETE FOUNDATION**

Retrofit plate

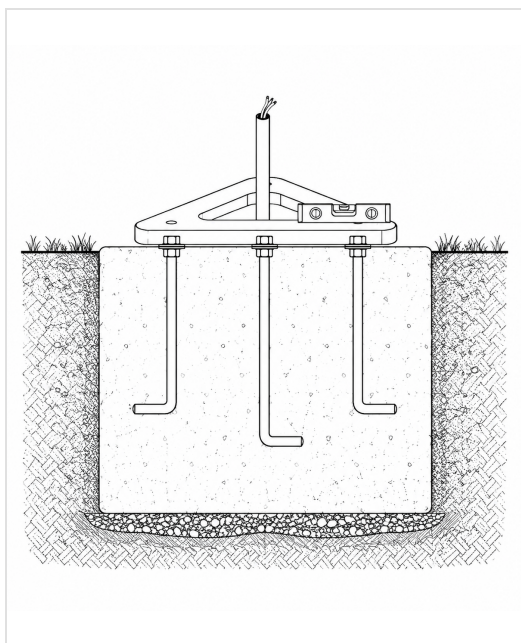
Proceed to Steps 08–11

After completing the selected mounting method, continue to Section 5 — Electrical Connections.

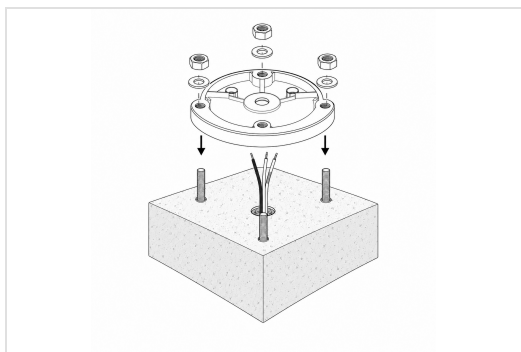
SECTION 4A — METHOD A: NEW CONCRETE FOUNDATION

**05**

Install the three J-bolts through the triangular anchor-bolt carrier and secure them with the supplied nuts. Keep the threaded projection above the carrier to approximately 1 inch maximum.

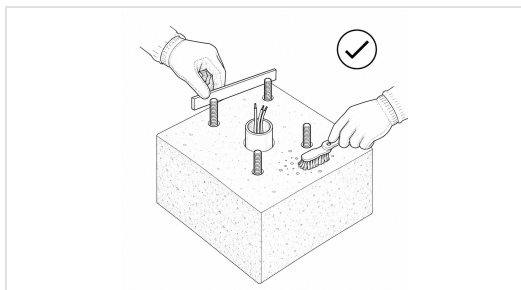
**06**

Center the electrical conduit and embed the three anchor bolts in the concrete foundation. Position the carrier level and flush with the finished surface. The source documentation recommends an approximately 10-inch by 10-inch foundation with a minimum depth of 12 inches. Final foundation requirements must follow site conditions and applicable codes.

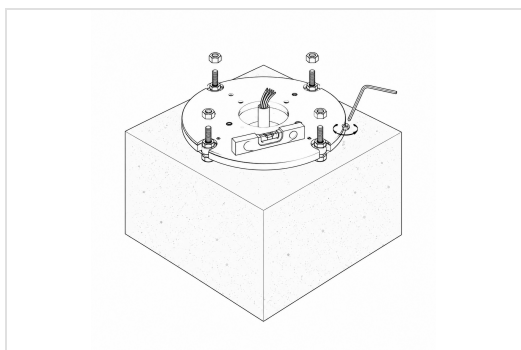
**07**

After the concrete has cured, route the conductors through the center opening. Position the circular mounting base over the anchor bolts and secure it level with the supplied hardware.

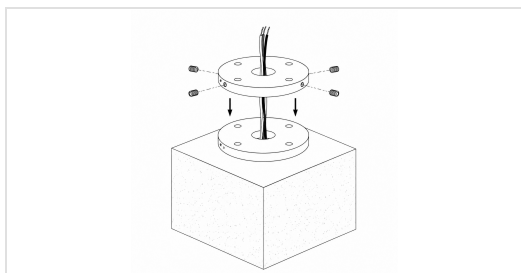
SECTION 4B — METHOD B: RETROFIT-PLATE INSTALLATION

**08**

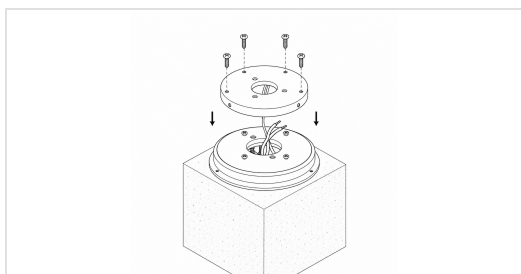
Confirm that the existing concrete is sound, the conduit is centered and the threaded studs are clean and undamaged. Stud projection should not exceed approximately 1 inch.

**09**

Place the lower retrofit plate over the existing studs. Use the four outer adjustment screws and level indicator to make the plate horizontal, then tighten the retaining nuts.

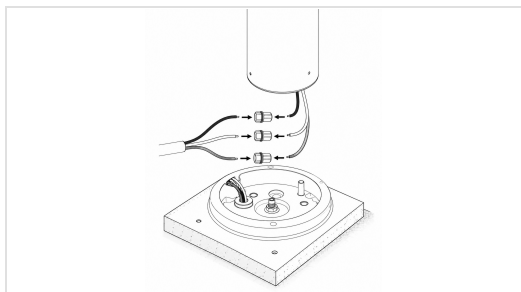
**10**

Position the upper retrofit plate over Plate A. Secure it with the four headless screws, maintaining equal screw engagement around the plate.

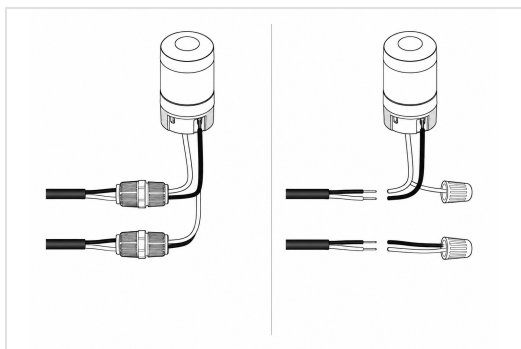
**11**

Route the supply conductors through the center opening and fasten the bollard mounting base to the completed retrofit assembly.

SECTION 5 — ELECTRICAL CONNECTIONS

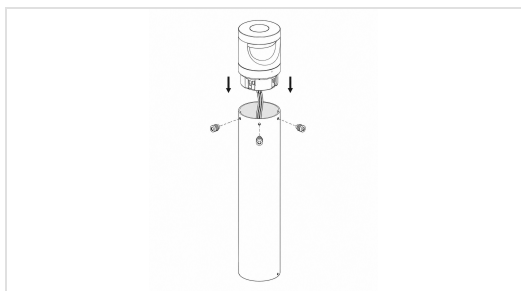
WARNING · POWER MUST REMAIN OFF WHILE MAKING CONNECTIONS.**12**

Using listed waterproof connectors, connect supply black to fixture black for Line, supply white to fixture white for Neutral and supply green to fixture green for Ground.

**13**

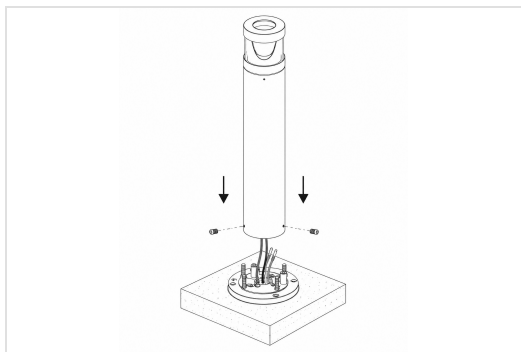
For 0–10V dimming, connect purple to DIM+ and pink to DIM–. If dimming is not used, cap the purple and pink conductors separately. Never connect the pink conductor to ground.

SECTION 6 — ASSEMBLE AND MOUNT THE BOLLARD

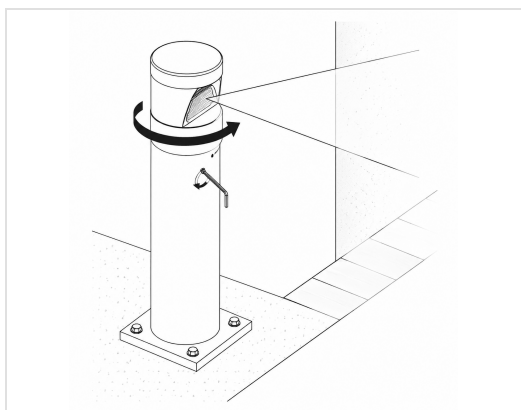
**14**

If the head and housing are supplied separately, insert the optical head into the cylindrical bollard housing and secure it with the supplied hex-socket set screws.

SECTION 6 — ASSEMBLE AND MOUNT THE BOLLARD (CONTINUED)

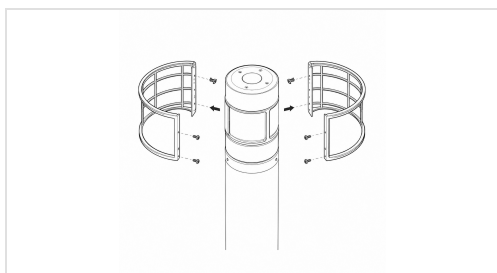
**15**

Carefully place the waterproof connections inside the housing. Lower the bollard housing onto the mounting base and secure the lower housing with the supplied hex-socket set screws.

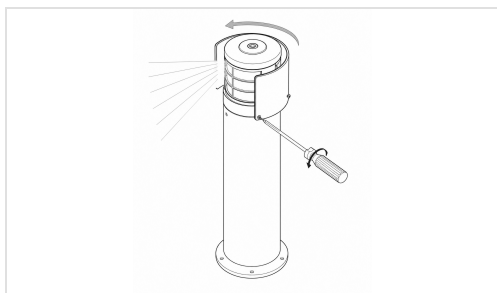
**16**

For directional DL-B Series heads, rotate the optical head so the opening faces the intended illumination area before tightening it. Symmetric heads generally do not require directional alignment unless a spill shield is installed.

SECTION 7 — 180° SPILL SHIELD

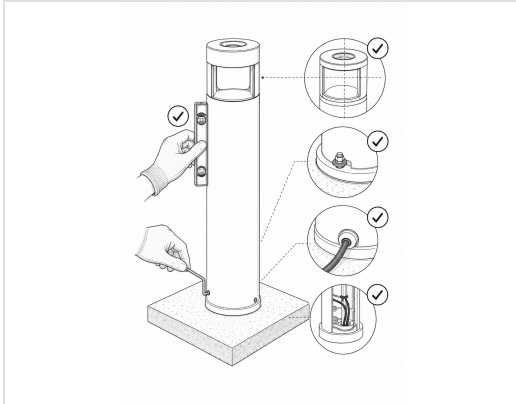
OPTIONAL**17**

Place Spill Shield A and Spill Shield B around the bollard head and align the mounting holes.

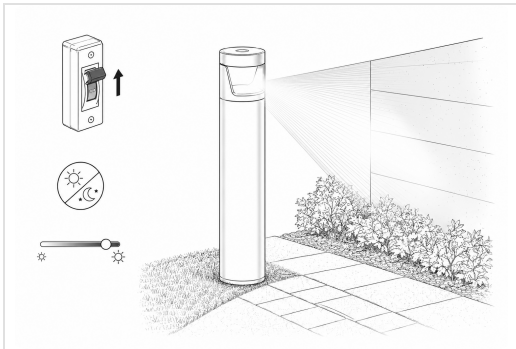
**18**

Rotate the shield to block unwanted spill and direct the illumination toward the desired area. Install and tighten the retaining screws evenly.

SECTION 8 — FINAL INSPECTION AND TESTING

**19**

Confirm that the bollard is vertical and stable, all mounting and set screws are tight, wiring is enclosed and weatherproof, no conductors are pinched and the optical head and optional spill shield are correctly aligned.

**20**

Restore power and verify fixture operation, selected wattage, selected color temperature, photocell response, dimming operation when applicable and the final illumination direction.

SECTION 9 — MAINTENANCE AND CLEANING

WARNING · TURN POWER OFF AND ALLOW THE FIXTURE TO COOL BEFORE CLEANING OR SERVICE.

- Do not clean or service an energized fixture.
- Clean the lens and exterior housing with a non-abrasive cleaning solution.
- Do not open the sealed LED compartment.
- Do not touch the LED components.
- Inspect mounting hardware, weather seals and exterior wiring entries periodically.