

M4SEDIC/CSEDOIC SERIES

### IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED. DISCONNECT POWER TO ALL CIRCUITS BEFORE WIRING FIXTURE. INSTALL IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES. DO NOT CONNECT TO AN UNGROUNDED SUPPLY. READ ALL FIXTURE MARKINGS AND LABELS TO ENSURE CORRECT INSTALLATION OF FIXTURE. SUPPLEMENTAL INSTRUCTIONS MAY BE LOCATED ON THE FIXTURE, IN ADDITION TO THIS INSTRUCTION SHEET, REGARDING ORIENTATION, OR MOUNTING RESTRICTIONS.

### SAVE THESE INSTRUCTIONS

## INSTALLATION INSTRUCTIONS

Install in compliance with the National Electric Code, any applicable local codes and any specific instructions given on the luminaire labels. If installing in conjunction with any additional options and/or accessories, also refer to the respective instruction sheets. For installation only by a qualified electrician.

NOTE: To maintain the ratings and approvals noted on the fixture nameplate, any fittings or mounting hardware supplied with this fixture, must be used with this fixture. The sealed wireway (if option selected) shipped with the fixture must also be used with the wiring method selected to maintain the integrity of the fixture.

### RECESSED FLANGE

NOTE: If Install Frame option (IF) is specified, see supplemental instructions provided with Install Frame.

1. Disconnect facility power to the electric supply leads.
2. To ensure an adequate seal between the flange and the ceiling system, it is important to have a square opening and a flat ceiling surface. When gypsum is used as the base material it should have adequate thickness to resist bowing. See appropriate specification sheet or contact Kenall directly for recommended ceiling cutout dimension. The cutout opening should be accurate to within a 1/16 of an inch.
3. Swing arm brackets are used to mount fixture to ceiling structure. After creating the ceiling cutout, frame the opening on the plenum side of the ceiling. See Figure 1.
4. Framing around the entire opening is recommended and should start at the rough opening. The minimum thickness of the ceiling material plus the frame material is 1-½ inches. The maximum thickness of the ceiling and framing material is 3 inches. Typically, 1-5/8 Unistrut® is used to frame the opening because of its straightness, but straight lumber can also be used (framing material by others).
5. Gypsum board shall be secured to the framing material around the opening. The ceiling surface around the opening shall be flat and smooth and not run (deviate from a straight edge) more than 1/32 inch over 2 feet. The opening should always be cut into whole pieces of gypsum. Ceiling seams and joints shall be outside of fixture cutouts. Structural members running under the gypsum shall be whole pieces around the cutouts and run the length of the cutout, not just under the swing arm bracket.
6. Fully remove door assembly from housing (including aircraft cable support) to gain access to swing-out arm screws during install. Keep inner clear protective lens installed.
7. Loosen screws from the J-box cover on top of the luminaire and open cover.
8. Connect the appropriate flexible raceway system to the wiring access hole.
9. Complete wiring. Attach Hot to black lead, neutral to white lead and ground to green lead. Connect recommended dimmer (Lutron Diva Series, DVSTV and Lutron Nova T, NTSTV-DV) to purple (+) lead and gray (-) lead. Connect leads from Kenall IC100 controller to yellow (+) lead and brown (-) lead. See additional wiring instructions if an integral emergency battery backup (LEL) system is included.
10. Close J-box cover and tighten screws.
11. Place a continuous bead of approved caulk on the back side of the housing flange.
12. Connect the appropriate flexible raceway system to the fixture and raise the fixture into the opening.

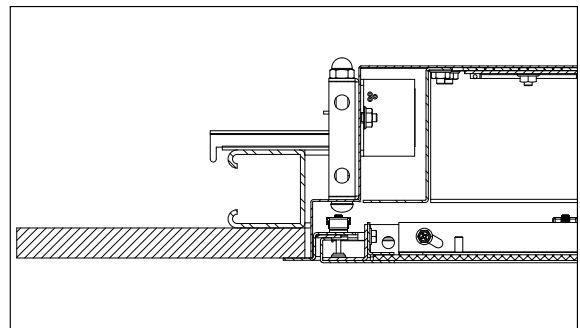


Figure 1



13. Turn each of the 4 swing arm screws approximately ½ turn to swing the arm away from the housing and then lower the fixture, letting the swing arm brackets come to rest on framing.
14. Continue tightening swing arm screws until the fixture is firmly seated against the ceiling surface.
15. Suspend door assembly and reinstall aircraft cable supports . Position door frame into/over housing opening and start all screws by hand. Tighten all screws to seal door frame to fixture.

## RECESSED GRID

1. Fixture is designed for use with 1.00"/1.50" T bar grid systems with vertical grid T thickness of less than ¼ inch with a maximum height of 1.50" inches. Grid systems can be installed with standard 12, 24 or 48 inch centerline spacing of grid.

**NOTE: For all typical installations, the door assembly is to remain installed during installation procedure.**

2. Fixture housing lays into grid. Verify four (4) swing arms in the stowed position as shown in Figure 2 (required to maintain fixture IP rating). If securing fixture to the superstructure with hanger wire (by others) loop wire through holes on swing arm attach bracket.
3. Loosen screws from the J-box cover on top of the luminaire and open cover.
4. Connect the appropriate flexible raceway system to the wiring access hole.
5. Complete wiring. Attach Hot to black lead, neutral to white lead and ground to green lead. Connect recommended dimmer (Lutron Diva Series, DVSTV and Lutron Nova T, NTSTV-DV) to purple (+) lead and gray (-) lead. Connect leads from Kenall IC100 controller to yellow (+) lead and brown (-) lead. See additional wiring instructions if an integral emergency battery backup (LEL) system is included.
6. Close J-box cover and tighten screws.

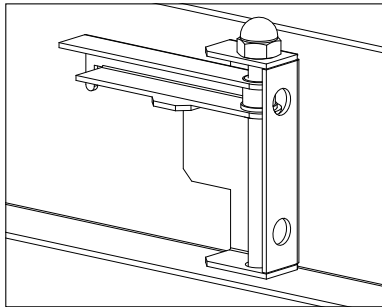


Figure 2

## CUSTOMER SERVICE

For technical assistance, call 1-800-4KENALL (1-800-453-6255).

## WARRANTY

For warranty information visit [www.kenall.com/Resources/Certified-Performance-Warranties](http://www.kenall.com/Resources/Certified-Performance-Warranties)



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