

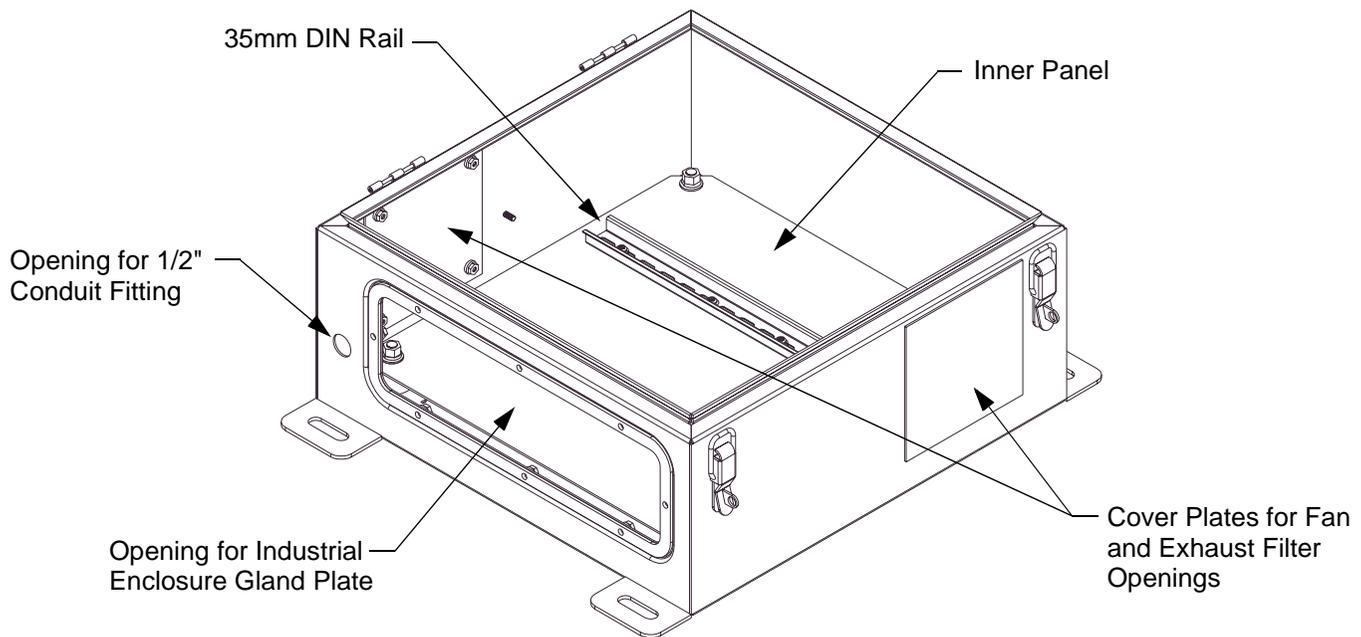
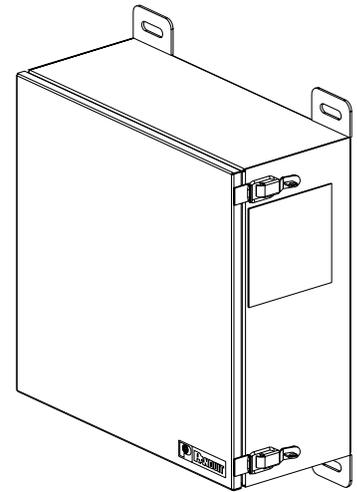
Important Notice:

Should Fan Kit P/N IAEFK54 be integrated into the enclosure, P/N IAEIP66, the IP rating of the enclosure shall be reduced to IP54. If the enclosure and any active equipment is located in an environment containing conductive particles that have the potential to cause sparks and shorts, or the enclosure is placed in an environment that contains ignitable dust or explosive gases, in this scenario the IP rating of the enclosure shall be reduced to IP44. Before any application in these last cases, the installer should insure that all requirements, legal and industry, are met and precautions are taken to meet the installation requirements of the equipment placed inside the enclosure.

List of Components:

- (1) 24 VDC Power Supply
- (3) *TAK-TYS*
- (6) Adhesive Backed Mounts
- (6) *PAN-TYS*
- (1) Electrical Hole Seal
- (1) Port ID Label
- (3) 10 AWG Grounding Cables
- (1) 12 AWG Grounding Cable
- (1) 35mm DIN Rail
- (1) #10-32 x 1/2" Pan Head Screw
- (3) #10 Spring Lock Washer
- (2) #10-32 Hex Nut

IAEIP66



(view shown with door removed)

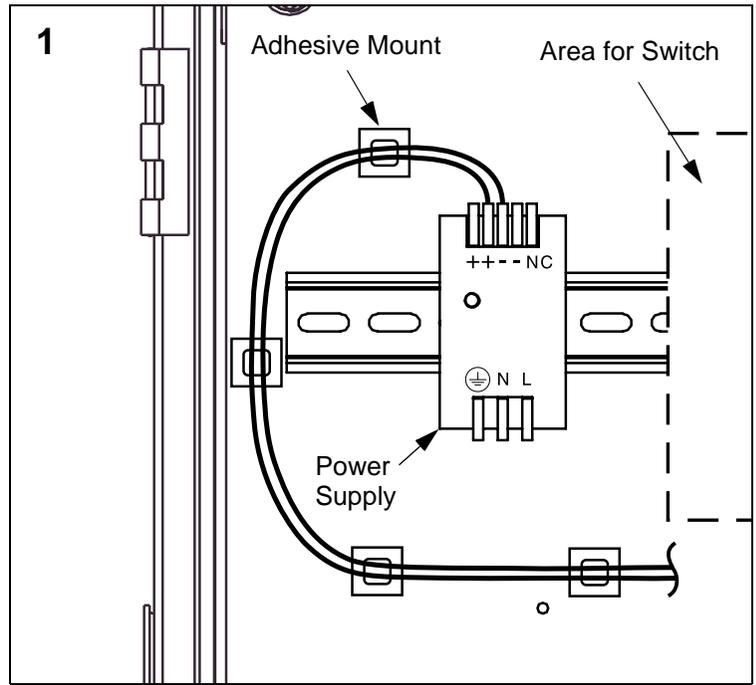
Step 1: Power Supply Installation

- 1.1 Install the 24 VDC Power Supply to the 35mm DIN rail.
- 1.2 Run a lead from the inside "+" position on the output side of the power supply to the switch.
- 1.3 Run a lead from the inside "-" position on the output side of the power supply to the switch.
- 1.4 Terminate the leads to the switch per the instructions provided by the switch manufacturer.

Note: Verify the switch being installed is 24 VDC.

- 1.5 If installing the optional fan, complete the following *after* the fan has been installed and wired.
- Use the Adhesive Backed Mounts and *PAN-TYS* to manage the wires and secure them to the inner panel. Save a couple adhesive mounts and *PAN-TYS* to manage and secure the incoming power lines to the inner panel.

Note: Refer to figure 1 for an example of how the wires can be routed.



Step 2: Gland Plate Installation (sold separately)

PANDUIT Part #'s:

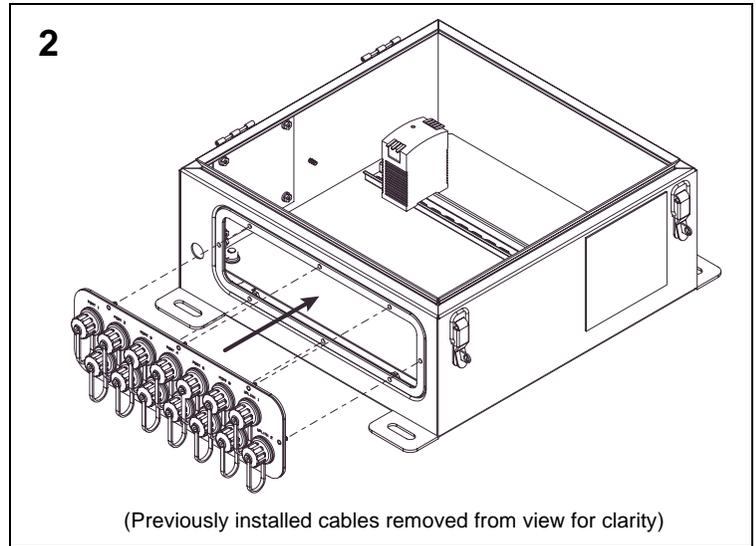
IAECGP - Industrial Automation Enclosure Connector Gland Plate

- (1) Gland Plate (14) Patch Cords (8) #10-32 Nuts
- (1) Gland Plate Gasket (8) #10 Flat Washers
- (14) IP67 Bulkheads (8) #10 Split Lock Washers

IAEBGP - Industrial Automation Enclosure Blank Gland Plate

- (1) Blank Gland Plate (8) #10 Flat Washers (8) #10-32 Nuts
- (1) Gland Plate Gasket (8) #10 Split Lock Washers

- 2.1 Insert the studs of the gland plate through the holes on the enclosure.
- 2.2 Verify the gland gasket is flat and positioned evenly between the plate and the enclosure.
- 2.3 Secure the plate to the enclosure using the supplied #10 Flat Washers, #10 Split Lock Washers and #10-32 Nuts. Torque the nuts to 5 in-lbs.



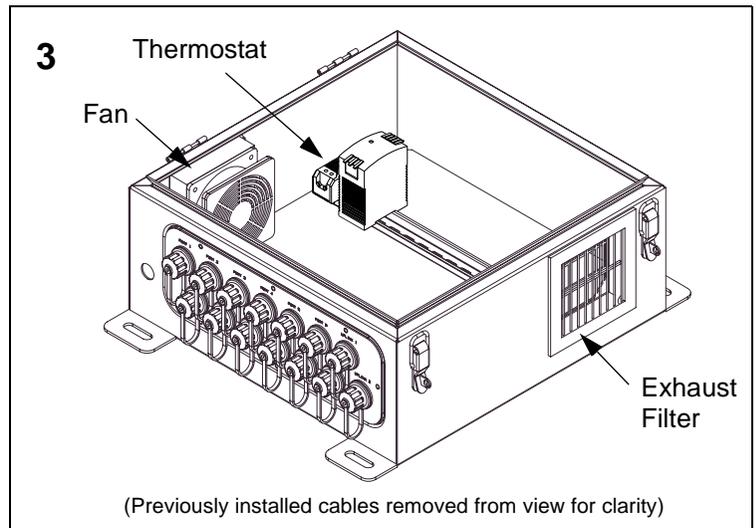
Step 3: Optional Fan Kit Installation (sold separately)

PANDUIT Part #:

IAEFK54 - Industrial Automation Enclosure Fan Kit

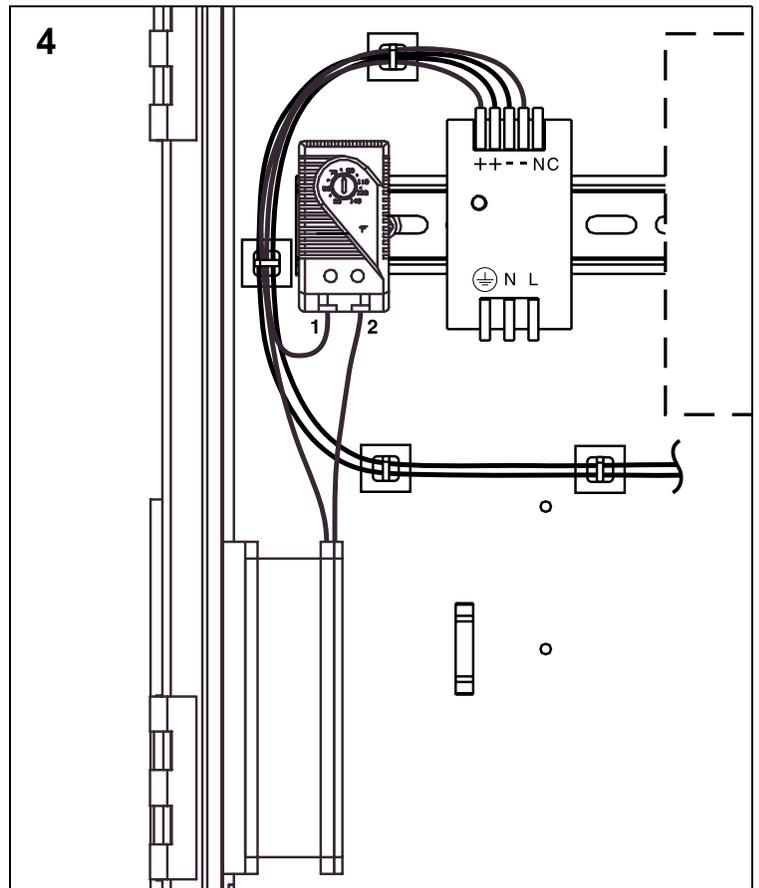
- (1) IP54 Fan (1) Thermostat
- (1) IP54 Exhaust Filter

- 3.1 Remove the cover plates from the enclosure.
- 3.2 Snap the IP54 Fan from the outside into the bottom opening near the gland plate. Make sure the louvers are angled toward the bottom of the enclosure.
- 3.3 Snap the IP54 Exhaust Filter from the outside into the top opening of the enclosure. Make sure the louvers are angled toward the bottom of the enclosure.
- 3.4 Install the Thermostat to the DIN rail of the enclosure.



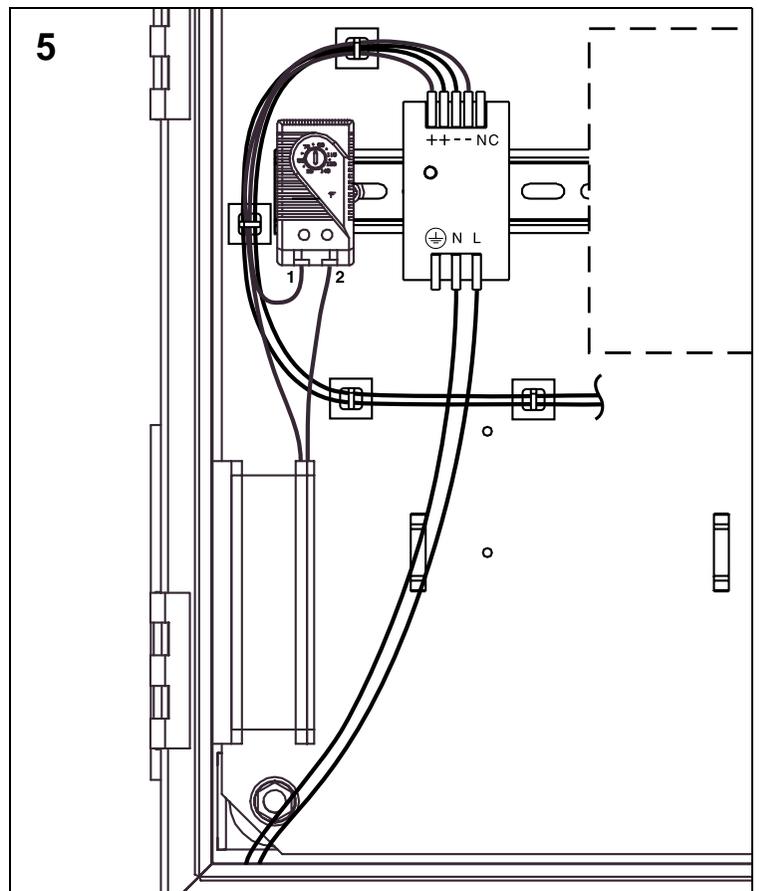
Step 4: Wiring Optional Thermostat and Fan

- 4.1 Refer to the power supply instruction sheet for proper wiring techniques and safety.
- 4.2 Run a lead from the outside "+" position on the output side of the power supply to the 1 position of the thermostat.
- 4.3 Run the positive lead of the fan to the 2 position of the thermostat.
- 4.4 Run the negative lead of the fan to the outside "-" position on the output side of the power supply.
- 4.5 Use the adhesive mounts and *PAN-TYS* to manage the wires and secure them to the inner panel. Save a couple adhesive mounts and *PAN-TYS* to manage and secure the incoming power lines to the inner panel.



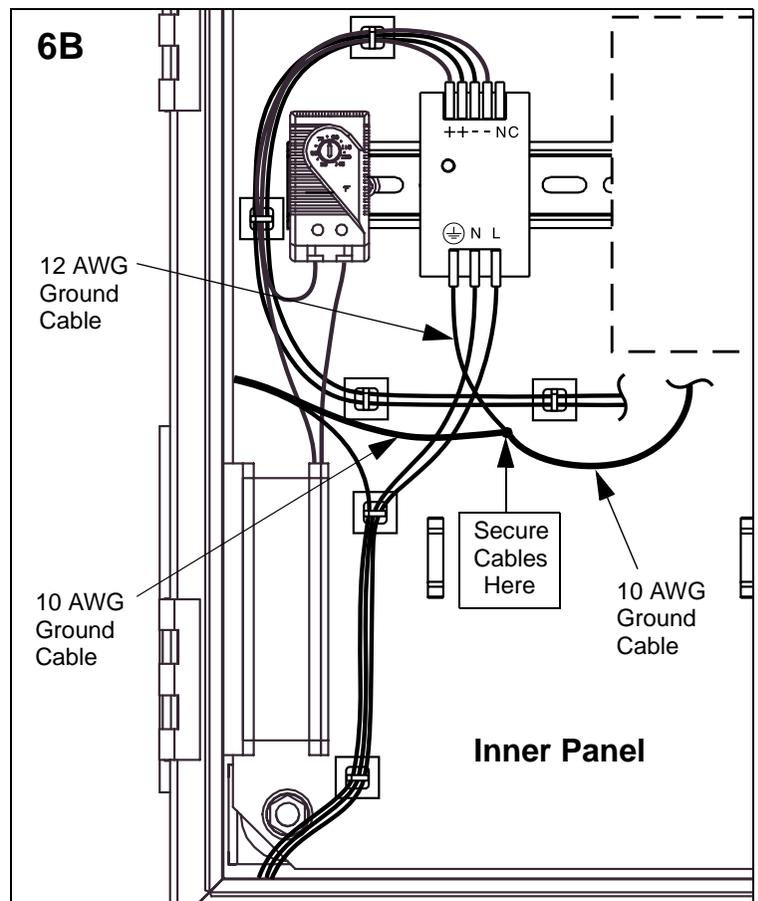
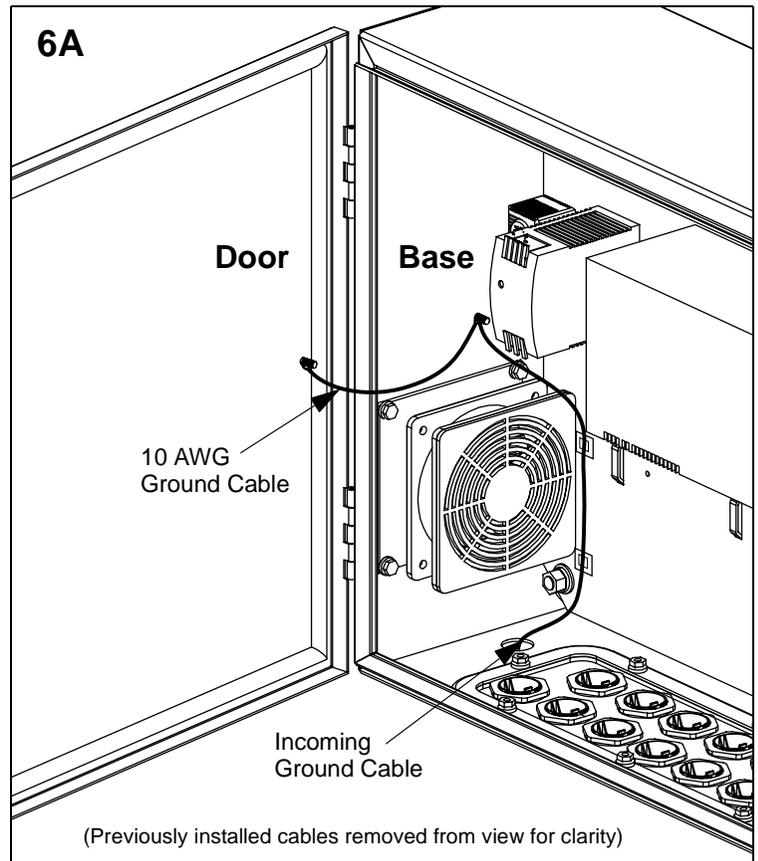
Step 5: Wiring the Input Side of Power Supply

- 5.1 Refer to the power supply instruction sheet for proper wiring techniques and safety. If the power supply is not being connected to the incoming power at this time, cover the hole using the provided Electrical Hole Seal.
- 5.2 Connect the hot wire to the "L" on the input side of the power supply.
- 5.3 Connect the neutral wire to the "N" on the input side of the power supply.



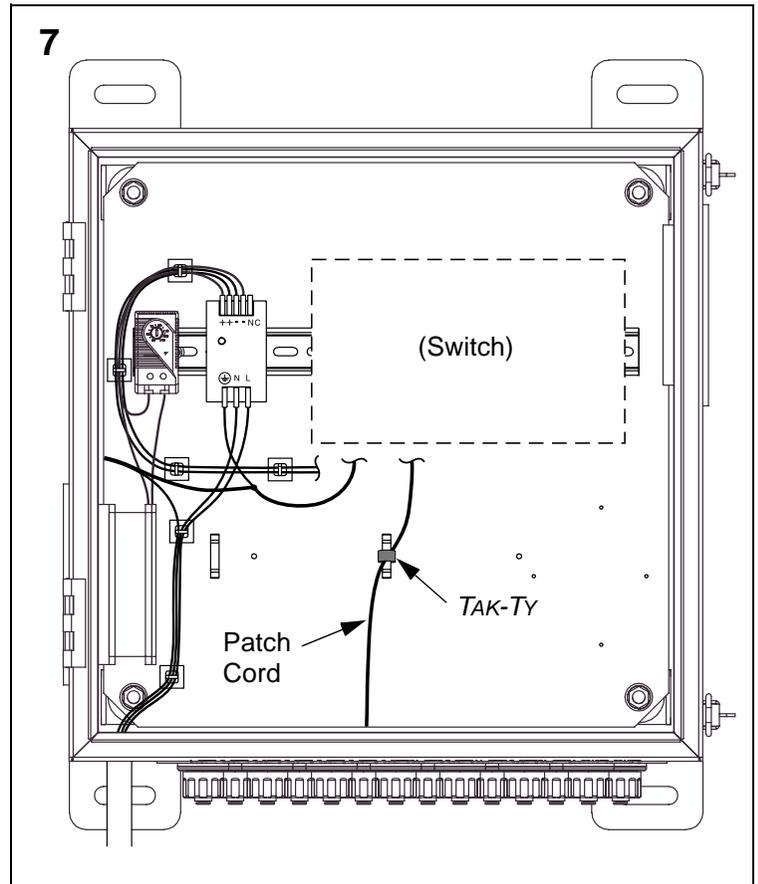
Step 6: Grounding Cable Installation

- 6.1 Connect the incoming ground cable to the ground stud on the base of the enclosure. Use the remaining adhesive mounts to manage and secure the hot wire, neutral wire and incoming ground cable to the inner panel.
- 6.2 Using one of the supplied 10 AWG Grounding Cables, attach one end to the grounding stud on the base, on top of the incoming ground, and the other end to the grounding stud on the door.
- 6.3 A second 10 AWG Grounding Cable is to be attached to the grounding stud on the base, on top of the other two cables, and the other end will be secured to the inner panel as shown in Figure 6B.
- 6.4 Secure the cable ends to the grounding studs on the base and the door using the supplied #10 Spring Lock Washers and #10-32 Hex Nuts.
- 6.5 The third 10 AWG Grounding Cable is to be attached to the grounding position on the switch and the other end will be secured to the inner panel.
- 6.6 The 12 AWG Grounding Cable is to be attached to the power supply and the inner panel. The end without a terminal should be attached to the power supply. Refer to the power supply instruction sheet for proper wiring techniques and safety.
- 6.7 Secure the three grounding cables (base, switch and power supply) to the inner panel using the supplied #10-32 x 1/2" Pan Head Screw and #10 Spring Lock Washer.



Step 7: Patch Cord Installation

- 7.1 Insert the connector end of the patch cord into an IP67 bulkhead.
- 7.2 Insert the plug end of the patch cord into the corresponding port on the switch.
- 7.3 Insert the provided *TAK-TYS* through the shear forms on the inner panel to manage and secure the patch cords within the enclosure.



For Instructions in Local Languages
and Technical Support:

www.panduit.com/resources/install_maintain.asp



www.panduit.com

E-mail:
cs@panduit.com

Fax:
(708) 444-6993