

INSTRUCTIONS FOR INSTALLATION OF CONDUIT  
AND GROUNDING OF EQUIPMENT IN  
NON-METALLIC ENCLOSURES

## Installation Instructions

**Mounting System** – A mounting system that provides for various mounting options has been provided with this enclosure. To connect the mounting brackets, turn the enclosure such that the back side is visible. Place the mounting brackets over the octagon bosses either horizontally, diagonally, or vertically, and fasten them with the ¼"-20 x 0.25" SS, countersunk Phillips drive screws provided (torque limit = 30 in. lbs.). The enclosure can be mounted vertically (ie. on a wall) or horizontally (ie. table top).

**Lid/Door** – The lid/doors have a gasket to seal against the base. Secure the lid to the base with screws, latches or screws and latches. Make sure the lid/door, gasket, and base are properly aligned. Four #10-32 x 0.75" SS, phillips drive screws have been provided.

**Screws:** Screw down in four corners with screws provided (torque limit = 15 in. lbs.).

**Screws & Latches:** Screw down four corners or the two outside corners furthest from the hinge with screws provided (torque limit = 15 in. lbs.). Secure latches to base and close on lid/door. For 6P applications secure cover with 4 cover screws and secure latches.

**Latches:** Secure latches to base and close on lid/door.

## **Considerations**

- If the enclosure is provided with specified modifications, installed accessories shall be of the same environmental rating.
- Bonding between conduit connections is not automatic and must be provided as a part of the installation. Do not use PVC cement for bonding.
- Conduit holes may be cut using standard hole saws. Secure the conduit, the connector and the locknut thru a pre-drilled hole. For metallic conduit, secure a grounding bushing over the connector locknut. All threaded inserts in the enclosure and for cover attachment are brass #10-32.
- Any fittings used, including conduit fittings and/or bonding between grounding bushings/lugs or between the grounding bushings/lugs and the devices installed inside the enclosure must be according to applicable governing Electrical Code.
- Enclosure drilled for conduit or other modifications voids warranty and may not be returned.
- Conduit must be aligned into or out of enclosure to prevent enclosure damage due to bending stress on enclosure walls.
- A drainage hole may be created for 3R applications by drilling 1/8 – 1/4 inch hole on enclosure side facing ground.
- For use in ordinary industrial applications and locations.

For questions please contact us at 1-616-794-0700 or [www.robroy.com](http://www.robroy.com).