

Automatic Transfer Switch Floor/Pad Mounted, NEMA 3R Instruction Manual

Thank you for your purchase of the Larson Electronics MPD-ATS Series Automatic Transfer Switch.

WARNING:

**READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
CRITICAL SAFETY INSTRUCTIONS:**

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- RISK OF FIRE OR ELECTRIC SHOCK. FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF FIXTURE'S ELECTRICAL SYSTEMS. IF NOT QUALIFIED, CONTACT A QUALIFIED ELECTRICIAN.
- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- MAKE SURE THE SUPPLY VOLTAGE IS THE SAME AS THE FIXTURE'S RATED VOLTAGE.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR SHARP OBJECTS. SUITABLE FOR DAMP LOCATIONS.

The MPD-ATS Series from Larson Electronics is an Automatic Transfer Switch that is ideal for managing electrical loads between two sources in industrial facilities. This unit handles timing, sensing, exercise functions and transfer commands, and is housed in a NEMA 3R enclosure for added security and protection.

Mounting

The MPD-ATS Series can be securely mounted to any flat surface that is capable of supporting the load of the unit. This system has no existing hubs for conduit, but features an open bottom for bottom feed configuration. Hub placement and creation is at the discretion of the user. Do not stand under unit when lifting. Secure unit to flat surface using the flanges on the bottom of the unit. Be sure all applicable local and national building and electrical codes are followed when mounting.

Power

Only a licensed and knowledgeable electrician should complete connections to this unit!

This system has no existing hubs for conduit, but does feature an open bottom for bottom feed configuration. If hubs are needed, placement and creation is at the discretion of the user. Be sure to consider your preferred method of bringing in the supply power when mounting.

Access to the inside of the enclosure is available via door on the front of the unit. A lockable opening deters the possibility of tampering.

There are two types of installation methods: Conduit installation or bottom-feed cable installation. If the enclosure is complete with factory installed entry hardware, run all your wiring through entry hardware and refer to the wiring diagram included with your unit for completing wiring connections.

If the enclosure does not include entry hardware, select the appropriate hubs or cable connectors and install them per the IOM included with the hardware, or run the cables through the bottom opening of the enclosure.

Installation of approved conduit hubs or cable connectors

CAUTION: FIELD INSTALLED OPENINGS:

For field-installed openings, use a hole saw, metal drill bit, or pneumatic type punch to create an appropriately sized hole for mounting your selected hardware. Always wear safety glasses and protective clothing when working.

Refer to the wiring diagram included with your unit, or printed on the inside of the switch, to complete connections.

All local and National Electrical Code and building codes should be followed when completing wiring connections. Refer to NFPA 70 and NFPA 70B for guidance on safe installation, inspection, and maintenance practices.

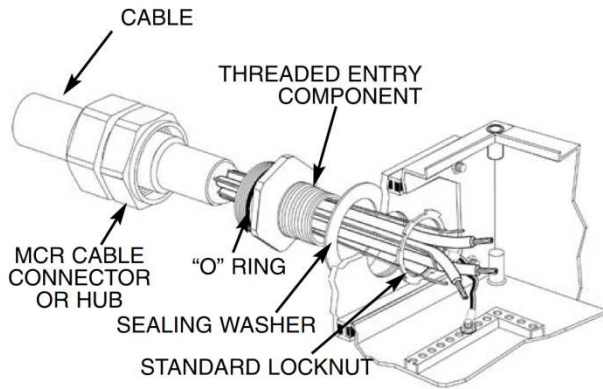
Energizing the Switch

BEFORE ENERGIZING THE SWITCH, INSULATION RESISTANCE TESTING OF THE CIRCUIT SHOULD BE PERFORMED TO INSURE THERE ARE NO SHORT CIRCUITS OR GROUND FAULTS. If this testing is conducted with an over-voltage source, be sure to disconnect any control transformers or other voltage sensitive equipment in the system to avoid damage. Follow industry accepted practices for performing the tests and energizing the system.

Conduit/Cable Installation

In situations where the metal cable connector and conduit hubs must be bonded to the ground system, this can be accomplished by installing them either by method 1 or method 2 as shown.

Method 1: Enclosures with flange plates using threaded openings through the flange plate and standard locknuts. Flange Plate must be connected to the internal grounding system using jumper wires.

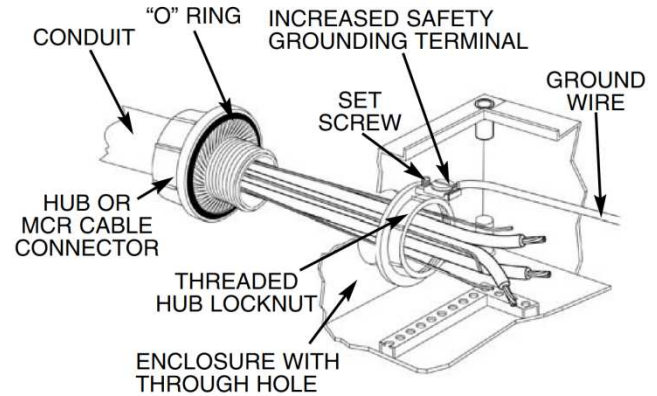


Refer to IOM sheet of cable connector for proper installation

IMPORTANT: When connecting conductors:

- Strip the wire so that the insulation covers the wire up to the terminal.
- Make sure all wires are connected to the correct terminals, per the wiring diagram.
- Tighten all terminal blocks/screws.

Method 2: Enclosures without flange plates using a hole "through the enclosure" with grounding locknut.



These locknuts must be bonded between each other and to the grounding system using jumper wires. After the entry hardware is installed, connect the appropriate conduit or cable.

Note: All unused enclosure openings must be closed using approved close-up plugs with standard locknuts.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The MPD-ATS Series is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-877-348-9680 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.