Fused Disconnect Switch
Wall Mount - NEMA 3R
Instruction Manual

Thank you for your purchase of the Larson Electronics MPD-DS-WM-FDS Series fused disconnect 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 Larson Electronics MPD-DS-WM-FDS Series Power Distribution Disconnect Switch is designed for reliable, safe and convenient power distribution at industrial work sites. Designed for wall mounting installations, the disconnect switch is protected by a NEMA 3R rated, steel enclosure with a ventilated design.



MOUNTING

The Larson Electronics MPD-DS-WM-FDS Series Power Distribution Non Fused Disconnect Switch is designed for wall mounting applications. There are flanges at top and bottom on the back of the enclosure, allowing the switch to be mounted to any flat surface that is capable of supporting the load. Choose a sturdy location, and secure the unit to the wall/surface using appropriately sized hardware for the pre-drilled mounting holes on the flanges of the enclosure. ***Always follow all applicable local and national electrical and building codes when installing this unit.***

Note: Consider your plans for bringing in supply power and running secondary power when mounting, and be sure to leave clearance for all necessary wiring and operations, as well as for opening the door.



Mounting Holes

Wiring

Only a licensed electrician should install this product, in all locations, especially in outdoor areas where weatherproofing may be required.

Note: Always check product nameplate or labeling for voltage ratings! Follow all applicable local and National Electrical and building code when installing.

There are two types of installation methods: Conduit installation or 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.

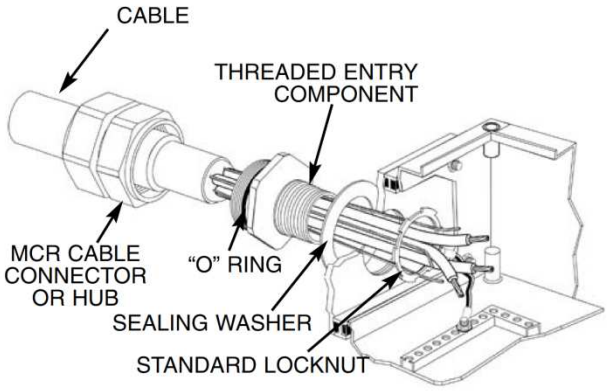
Installation of approved conduit hubs or cable connectors

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.

Conduit/Cable Installation

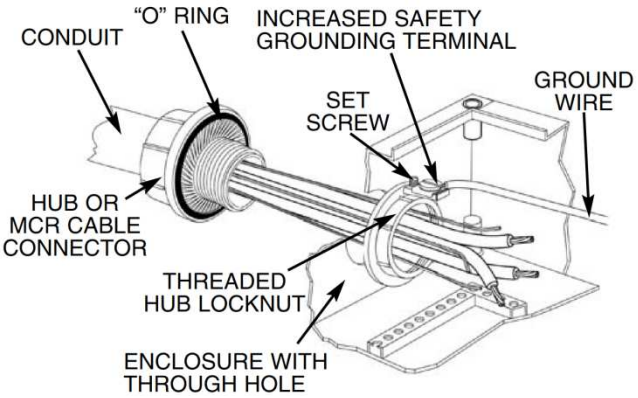
In situations where the metal cable connector and conduit hubs must be bonded to the ground system, this can be accomplished by installing them either by method 1 or method 2 as shown.

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

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.

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.

OPERATION

MPD-DS-WML-NFDS Series switches operate with an exterior switch, allowing the unit to be cycled off and on without the need to open it. Two-position OFF-ON and three-position ON-OFF-ON are the most common setups, and switches are typically labeled to show the current position.

REPLACING FUSES

Always turn off supply power before opening unit or performing any maintenance! All maintenance should be performed only by a licensed electrician with knowledge of these types of electrical systems. Shed all loads before servicing and restoring supply power.

In the event you need to replace fuses, disconnect power to unit and open the door of the enclosure. Remove the faulty fuse(s) and replace with like parts of the same type and ratings. Close unit door once fuses are in place and unit is ready for testing. Ensure the connected load on the switch is not exceeding the capacity and ratings for the disconnect switch and fuses, be sure all connected equipment is powered off, then restore supply power. Refer to the wiring diagram that was included with your disconnect switch if needed. **Do not restore supply power before shedding load**

REPLACEMENT PARTS

The MPD-DS-WM-FDS 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.