

20A Explosion Proof Outlet

Class I, II, II - 2P3W - Straight Blade/Delayed Action - NEMA

Instruction Manual

Thank you for your purchase of the Larson Electronics EPO-20A.

WARNING:

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

TO AVOID THE RISK OF FIRE, EXPLOSION OR ELECTRIC SHOCK, THIS PRODUCT SHOULD BE INSTALLED, INSPECTED AND MAINTAINED BY A QUALIFIED ELECTRICIAN ONLY, IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODES.

TO AVOID ELECTRIC SHOCK:

- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- PRODUCT MUST BE CONNECTED TO A WIRING SYSTEM WITH AN EQUIPMENT-GROUNDING CONDUCTOR.

TO AVOID EXPLOSION:

- MAKE SURE THE SUPPLY VOLTAGE IS WITHIN THE VOLTAGE RATING.
- ENSURE THE MARKED T RATING IS LESS THAN THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE.
- DO NOT OPERATE IN AMBIENT TEMPERATURES ABOVE THOSE INDICATED ON THE PRODUCT NAMEPLATE.
- DO NOT OPERATE IF THE LENS, CORD, SEALS, HOUSING, RECEPTACLES, ETC. IS CRACKED OR DAMAGED. IF SO, DISCONTINUE USE AND CONTACT MANUFACTURER FOR REPLACEMENT PARTS.
- ALL FASTENERS SHOULD BE PROPERLY SEATED.

The Larson Electronics EPO-20A Explosion Proof Outlet is designed for power connections in combustible facilities and hazardous locations. This receptacle is rated at 20 amps and operates with 125V AC or 250V AC. Constructed of copper-free aluminum with an electrostatically applied baked powder epoxy/polyester finish, the NEMA rated outlet is protected by a heavy-duty cover.

MOUNTING

The explosion proof receptacle features four, 1/4" mounting holes at every corner of the unit for permanent mounting installations.

INSTALLATION

1. Mount back box in desired position following methods that comply with NEC and any local codes.
CAUTION: Conduit sealing fittings **MUST BE** installed in Class 1, Group B locations to comply with the requirements in the latest edition of the NEC, Section 501-5 and/or 502-5 plus any other applicable standards. Sealing fittings must be close-nipped to the enclosure.
2. Pull all power source wiring into back box. Be sure wires are long enough to make proper connections.
CAUTION: Use only copper or copper-clad wire with this receptacle.
3. Attach power source conductors to receptacle terminals in an approved manner. Black conductor is attached to bronze screw; white conductor is attached to silver cadmium screw; and green grounding conductor is attached to the green screw.
4. Push wiring into back box and attach receptacle using the four screws provided. The preferred arrangement for the receptacle is with the door hinge on top. Tighten screws to 30 inch-pounds torque.

OPERATION

1. Insert plug into receptacle as far as it will go.
2. Turn clockwise as far as it can go. Internal contacts of the receptacle are closed by this action and complete the electrical circuit.
3. Release plug allowing it to move outwardly slightly, into a locking detent position. Check by trying to turn and/or pull out without any inward pressure. Plug should not pull out.
4. To remove plug, press inward, turn counterclockwise and pull straight out.

WIRING (See Figure 1) :

NOTE: Use **only** copper wire with this device (10, 12 or 14 AWG). Recommended wire strip length – ½ inch nominal (wire strip gauge also available on the terminal cover). Loosen all (3) Terminal Contact Screws and insert wire through the Wiring Entrance holes, into proper terminals: Green lead (Ground) to terminal with ground mark & Green screw head; White (Neutral) lead to terminal with Silver screw head (125V. only); Black and/or Red [Line lead(s)] to terminal(s) with Brass screw head. Hand tighten terminal screws (recommended torque 8 in.-lbs.)

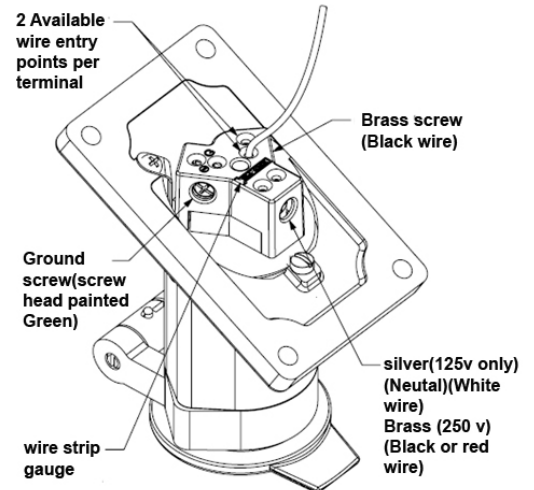


Figure 1
TERMINAL CONNECTIONS

MAINTENANCE

Perform visual, electrical and mechanical checks of all components on a regular schedule. This should be determined by the environment and frequency of use, but it is recommended that it should be at least once a year.

1. Make sure screws holding receptacle to back box are tight.
2. Clean receptacle face thoroughly
3. Make sure screws holding insulator in plug body are tight.
4. Clean all exterior parts of plug thoroughly.

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 EPO-20A 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.