

Explosion Proof 0-10V Rotary Dimmer Switch Class I, II, III - Copper free Aluminum - NEMA 4X Instruction Manual

Thank you for your purchase of the Larson Electronics EXP-DRW-N4X.

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.

IMPORTANT

READ CAREFULLY BEFORE INSTALLING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE EXP-DRW-N4X MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.

WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN. THERE ARE NO SERVICEABLE PARTS INSIDE.



WARNING: MAKE SURE POWER IS TURNED OFF BEFORE STARTING THE INSTALLATION OR PERFORMING ANY MAINTENANCE.

RISK OF FIRE/ELECTRIC SHOCK – DISCONNECT POWER AT BREAKER BEFORE INSTALLING OR SERVICING.

RISK OF PERSONAL INJURY – FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY.

RISK OF BURN – ALLOW FIXTURE TO COOL BEFORE SERVICING.

WARNING

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.

WARNING:

USER SHOULD BE TRAINED IN THE PROPER USE AND MAINTENANCE OF THIS DEVICE. IF PROPER INSTALLATION PROCEDURES ARE NOT FOLLOWED EXACTLY, THE DIMMER SWITCH MAY NOT BE SUITABLE FOR THE HAZARDOUS LOCATION INVOLVED.

PERIODIC INSPECTION OF THE DIMMER BOX IS NECESSARY.

ALL LOCAL AND NATIONAL ELECTRICAL/BUILDING CODES MUST BE FOLLOWED WHEN INSTALLING THIS DEVICE. FOR CODE INTERPRETATION, CONSULT YOUR LOCAL AUTHORITY. PRODUCT MUST BE USED ONLY WITH ALL CAP THREADS FULLY ENGAGED. DO NOT USE IF DAMAGED.

The Larson Electronics EXP-DRW-N4X Explosion Proof Dimmable Rotary Switch is suitable for Class I, II and III rated combustible work sites. This 0-10V dimmable explosion proof switch, which carries a NEMA 4X rating, provides a safe and secure method for operators to adjust the brightness of explosion proof lights connected to the switch in order to best accommodate the situation or workplace while maintaining safety within hazardous environments.

HUBS

These dimmer switches are not factory sealed and require external sealing fittings. This explosion proof switch is available with either 1/2" or 3/4" NPT tapped hubs. The conduit openings are provided on the top and bottom of the unit in feed through versions while dead end versions have a single conduit hub, providing easy and secure connection to main power line supplies.

MOUNTING

External mounting lugs provide simple and secure mounting of the unit to walls and flat surfaces.

INSTALLATION

We strongly recommend that only a licensed electrician install this product.

The 0-10 volt DC Low Voltage Dimming Control is for use with LED drivers, and others compatible with a 0-10V current sinking control. Features logarithmic response and reverse polarity protection.

WARNING: Mis-wiring Low Voltage Dimming Control could cause permanent damage to dimmer.

DO NOT connect this control to line voltage.

DO NOT connect with power applied.

1. Choose a suitable location to mount the dimmer where conduit can reach the box. 3/8"-16 or 3/8"-24 bolts are recommended for mounting the box with a minimum bolt length of 1/4" depending on the location.
2. Remove front cover and Run control wire to driver with conduit following appropriate methods.
3. Wire according to the wire diagram. Violet and Gray wires go to control wires on driver.
4. Close all unused ports and replace cover.

**OPERATION**

Rotate until desired light output is achieved. Do not force the dimmer passed its stopping point as this could damage the dimmer.

MAINTENANCE:

Electrical and mechanical inspection of all components must be performed on a regularly scheduled basic, determined by the environment and frequency of use. It is recommended that inspection be performed a minimum of once a year.

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 EXP-DRW-N4X 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 1-800-369-6671 FOR FURTHER ASSISTANCE.

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