

Explosion Proof Push Button Timer

C1D1/C2D1 - Adjustable Timer, 10 Sec to 170 Minutes - (2) PBs

Instruction Manual

Thank you for your purchase of the Larson Electronics EPS-2XPB-SG-AT-V3.

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.

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.

The Larson Electronics EPS-2XPB-SG-AT-V3 Explosion Proof Push Button Timer is ideal for controlling motors and devices in hazardous locations. This unit comes with an adjustable time delay relay, at a range of 10 seconds - 170 minutes in 10 second increments. Constructed of malleable aluminum, this Class I, Division 1 & 2 and Class II, Division 1 & 2 rated switch features various hub size and termination options.

WIRING

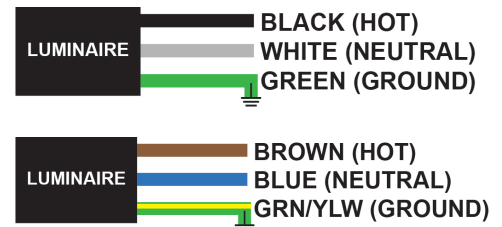
Standard pigtail(flying leads) wiring

We strongly encourage a licensed electrician install this product, in all locations especially in outdoor areas where weatherproofing may be required. Universal voltage driver permits operation at 100V - 240V AC, 50 or 60Hz.

Warning: Check product label for correct input voltage!

Attach supply line wires to the appropriate light fixture wires as shown in the diagram →

Secure each pair of wires according to the diagram. Utilize a junction box or similar device and take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes.



INSTALLATION

1. Mount the back box by means of mounting lugs. Install conduit nipple and sealing fittings, to be installed on each conduit entrance or exit to the enclosure back box in Class I and Class II areas. Thread conduit into sealing fitting (Note: For Class I areas, the conduit should engage [5] full threads.)
2. The conduit threads should be lubricated with a non-electrical insulating lubricant or pipe joint compound that will not promote corrosion or chemically attack aluminum.
3. After conduit system has been properly installed, pull the wires and make electrical connections as required. The electrical circuits and ground continuity should be checked with an instrument approved for the area. Notice: Connect only copper wire to this device.
4. All conduits entering or leaving the enclosure must be sealed within 18" of the enclosure with listed sealing fittings. Caution must be taken during installation to be sure that the ground flange flame joints of the cover and box are not scratched, nicked, or damaged. Before assembly of the cover to the box, the mating ground surfaces of both the box and cover should be wiped clean to assure that the ground flame joint will be free of all foreign particles such as lint, dust or dirt.
5. After tightly bolting the cover assembly/assemblies to the enclosure, all box to cover flame joints should be checked with a 0.0015" thick feeler gauge such that the gauge will not enter the flame path more than 1/8" at any point.

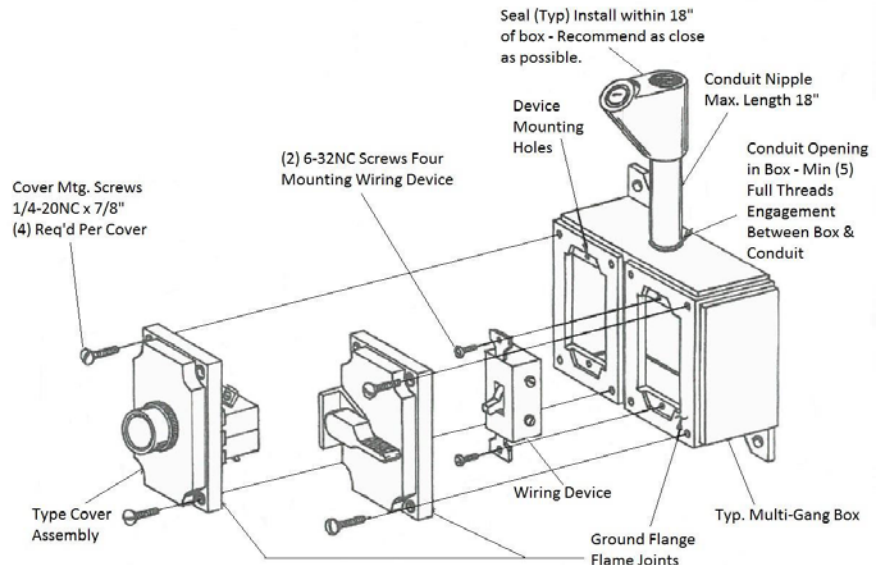
OPERATION

The EPS-2XPB-SG-AT-V3 offers adjusted timing control of motors in hazardous locations. This explosion proof switch is designed to operate with 100-240V AC/DC 50/60 Hz and comes with a 10-amp rating (at 600V AC). The unit requires sealing fittings and compound within 18 inches of conduit entrances. A solid-state, encapsulated time delay relay can be found inside the switch, which offers an adjustable timer range of 10 seconds to 170 minutes. When the button is engaged, the circuit stays closed, keeping the connected motor or device running for the set duration (between 10 seconds - 170 minutes in 1 second increments). The timer component features a repeating accuracy value of +/- 0.5% and a setting accuracy value of +/- 2%. Controls for the explosion proof timer includes: (1) green push button - start timer and (1) red push button - stop timer early before set time.

MAINTENANCE

All moving shafts should be lubricated occasionally to prevent binding. Only use a lubricant which is suitable for use with aluminum or stainless steel. If devices are to be installed in corrosive areas which will attack aluminum alloys containing less than 0.4% copper (boxes and covers) and 303 stainless steel (mostly shafts), the device should be suitably protected from the corrosive material.

CAUTION: To prevent ignition of hazardous atmospheres, disconnect from the supply circuits before opening the enclosure; keep tightly closed while circuits are energized.



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 EPS-2XPB-SG-AT-V3 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.