

Explosion Proof 10 Amp Push Button Momentary Switch Class 1 & 2 - Division 1 & 2 - 3 Phase 480V Instruction Manual

Thank you for your purchase of the Larson Electronics EPS-PB10-MS-480V-3P.

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-PB10-MS-480V-3P Explosion Proof Momentary Push Button Switch is Class 1 & 2, Division 1 & 2 rated for Hazardous locations, and is compatible with surface and conduit mounting applications.

CAUTION:

A nameplate is furnished on the cover reading "DISCONNECT THIS ENCLOSURE FROM SUPPLYING CIRCUIT BEFORE OPENING". Be sure the flame paths (cover to box mating surfaces and threaded openings) do not become damaged or out of tolerance (refer to next page for tolerances). Do not install in a corrosive area which will attack the "copper free" aluminum alloy or stainless steel parts unless the castings and parts have been protected against the specific corrosive environment.

DESCRIPTION:

The EPS-PB10-MS-480V-3P series operator assemblies are for use in hazardous location Class 1 & 2 - Division 1 & 2. These units are heavy-duty, 480 V AC rated.

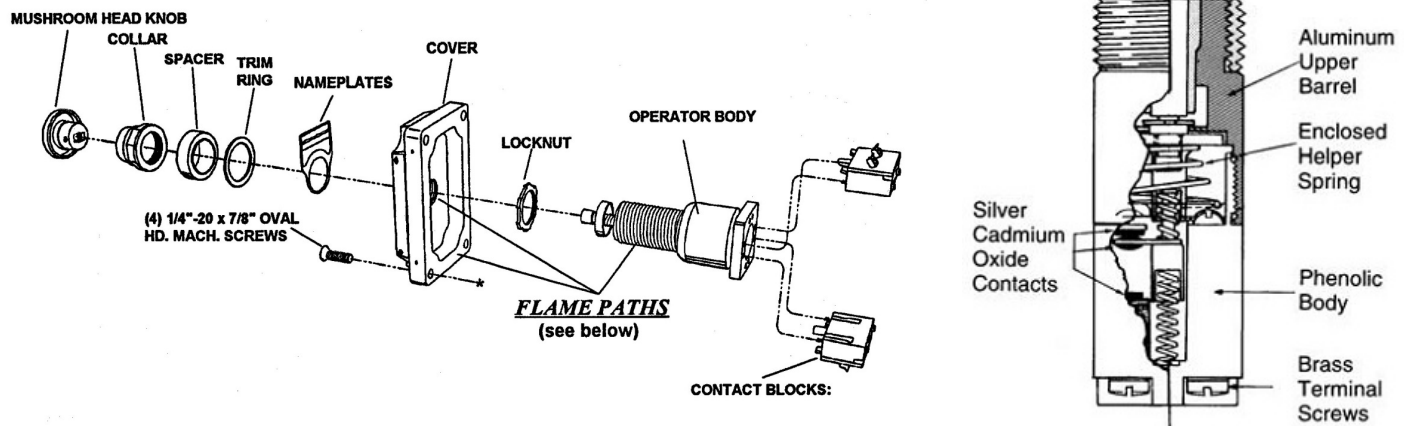
OPERATION:

The mechanical action of these devices is momentary push button operation. The electrical action is dependent upon the wiring configuration.



MAINTENANCE:

For detail of parts, refer to graphic below. To prevent binding, the button and collar area should be cleaned periodically.



INSTALLATION

We recommend only a licensed electrician install this product. All applicable local and national electrical and building code should be followed when installing.

EPS-PB10-MS-480V-3P devices are for surface mounting in hazardous atmospheres, as defined in the NEC Article 500. They contain an electrical device, and must have conduit sealing fittings (per NEC article 50 1-5) on all conduit openings. Use Larson Electronics "EYM" series (or equivalent). Mount the box using the cast mounting lugs provided. Install sealing fittings as required in Class I & IT areas.

Thread conduit on to seals (**NOTE: FOR CLASS I AREAS, CONDUIT MUST ENGAGE A MINIMUM OF 5 FULL THREADS**). The conduit threads should be lubricated with a non-electrical insulating lubricant, or pipe joint compound which will not promote corrosion or chemically attack aluminum.

After conduit system has been properly installed, pull the supply wires and make wiring connections as required. The electrical circuits and ground continuity should be checked with an instrument approved for the area.

A FLAME PATH IS MACHINED ON BOX & COVER SUCH THAT A 0.0015" FEELER GAUGE WILL NOT ENTER THE JOINT MORE THAN 1/8" WHEN FULLY ASSEMBLED AND BOLTED. CARE MUST BE TAKEN THAT MACHINED SURFACES AND THREADED AREAS ARE NOT DAMAGED. REMEMBER TO SAVE ONE OF THESE SHEETS FOR MAINTENANCE PERSONNEL.

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-PB10-MS-480V-3P 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.