

EPS-2XPB-SG-DPMS OPERATION MANUAL

Explosion Proof Double Push Button Switch

READ THIS SHEET CAREFULLY BEFORE BEGINNING INSTALLATION.

IMPORTANT: This enclosure and device must be installed by trained, qualified and competent personnel. Installation must comply with local, state and national regulations, as well as safety practices for this type of equipment.

WARNING: Electrical power must be OFF during installation, or performing any maintenance. Disconnect primary power source and lock out.

CAUTION: Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code. Make sure that the circuit is De-energized before starting installation or maintenance. Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death. **Important:** Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

ENCLOSURE MOUNTING INSTALLATION:

If you have received fully assembled enclosure with factory installed devices, just follow the instructions and warnings below for installing and wiring the enclosure.

The mounting location must be flat and provide proper clearance, rigidity and strength to support the enclosure and all contained devices.

Securely fasten the enclosure to the mounting location. Install sealing fittings, cable glands, unions and/or conduit, using an approved electrical conducting type lubricant on the threads. The conduit thread connections must be tapered pipe thread conforming to ANSI B1.20.1. A minimum of (5) full threads engagement is required for all conduit connections. Conduit sealing fittings must be installed within 18 inches of the enclosure. Sealing fittings must be approved for the specific hazardous location where the enclosure is used. All unused conduit openings must be plugged using close-up plugs. Plugs must be tightly installed with a minimum engagement of (5) full threads.

▲ Inspect and clean the machined flange flame joint surfaces of both the cover and the box. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean surfaces by wiping with a clean, lint-free cloth.

Apply a light coating of lubricant to flange surfaces and close the cover. Tighten all cover bolts. Use only those bolts supplied with the enclosure. Check the bolted joint with a .0015 thick feeler gauge. The gauge must not enter the joint more than 1/8" at any point. **NOTE:** Loose bolts or an improper joint can result in an explosion, creating a potential for personal injury and property damage.

NOTE: If installing a breather and/or a drain, make certain they are suitable for the specific hazardous location where they are to be used. Some drains/breathers may not comply with Nema 3 & 4 standards. Also, provide a protective covering to shield the breather and drain during hose-down operations.

Wire according to the diagrams on the switches. The factory installed pushbuttons in cover is set up to interface with the switches, once the cover was installed on the box.

DIAGRAM



MAINTENANCE DATA

After installation, this enclosure should be inspected at regular intervals. A visual inspection should ascertain that all cover bolts are still tight; that all conduit connections are intact and free of corrosion, and that the enclosure mounting bolts are tight and in good condition.

If the enclosure must be opened for servicing, to check or replace internal devices and apparatus, the following procedures should be followed:

WARNING: Before servicing the enclosure, be sure the electrical power is **OFF**. **Disconnect** the enclosure from the primary power source and **lock-out**.

Loosen cover bolts. Replace any corroded, bent or otherwise damaged bolts with new, factory authorized bolts obtained from an authorized Larson Electronics distributor. Open enclosure. Do not use hammer, screwdriver or any prying tool to open cover.

Inspect machined, flame joint flange surfaces. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Should surface be damaged, contact factory. Never attempt to rework surfaces by sanding, grinding, etc. Surfaces must seat fully against each other to provide a proper explosion-proof joint.

Inspect water exclusion gasket. If gasket is damaged, do not attempt field replacement or repair. Contact a factory authorized representative for a replacement cover. The damaged gasket can be removed from the cover, and the cover without gasket can be used until a replacement is obtained. The cover, without gasket, can be safely used in Class I & II hazardous (classified) locations, however, the enclosure may not be rain-tight or hose-down resistant. Follow Installation Instructions at ▲ on Page 1.