

Explosion Proof Push Button Stop/Start Switch Motor Starter Switch - 15' 16/3 SOOW - Gen Cord Cap Instruction Manual

Thank you for your purchase of the Larson Electronics EPS-2XPB-SG-15C-GAP Explosion Proof Push Button Stop/Start Switch. Please follow the steps below in order to operate and maintain this product.

INSTALLATION OF BACK BOX

WARNING: To prevent explosion and shock hazard, electrical power must be OFF before and during installation and maintenance.

1. Select a mounting location that will provide suitable strength and rigidity for supporting all contained wiring and control devices. Figure 1 shows the mounting dimensions of EPS Series Back Boxes. Drill and tap mounting holes in this location for the 5/16-18 bolts.
2. Securely fasten the device body to the mounting surface, then attach the body into the conduit system.
3. Pull supply wires into the enclosure, making them long enough to make the required connections. Each conductor should be long enough to extend at least 3 inches outside the cover opening.
4. Make the electrical connection to the switches utilizing the wiring scheme established for your system. See below for wiring the pushbuttons.

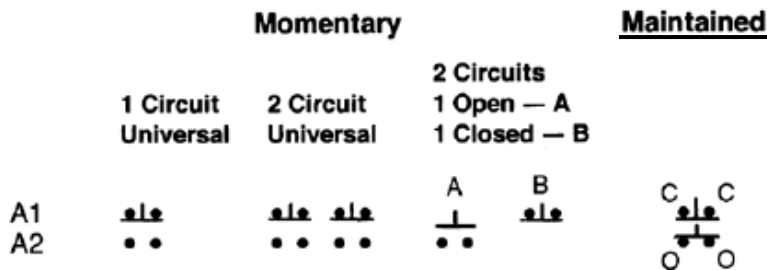
WARNING: To avoid explosions, check for dirt, grit or other foreign material on the mating surfaces of the cover and the back box. Be certain that each surface is wiped completely clean before assembling. Surfaces must seat fully against each other to provide a proper explosion proof joint.

5. When cover assembly with operators is completely assembled per below steps, test wiring for correctness with continuity checks and also for unwanted grounds with an insulation resistance tester.
6. Carefully assemble cover assembly to the device body with the cover screws. Check the tightness of the cover screws to ensure that the cover assembly is securely fastened.

WIRING

Install the required number of contact blocks to the mounting block or mounting plate.

Pushbutton Stations:



NOTE: A1, B1 and C Contacts are "Normally Closed" and
A2, B2 and O Contacts are "Normally Open"

The field wiring terminals on the contact block are marked.

The "O" and "C" indicate normally open contacts; and "A" and "B" indicate normally closed contacts of the contact block.

The lugs on the contact block are provided with binding head screw terminals.

Strip the insulation on each conductor wire back 3/8".

Use a slotted or Phillips head screwdriver to loosen the field wiring terminal screws the required three (3) or four (4) turns. Insert the bare wire conductor(s) on either side of the terminal screw(s), under the terminal clamp(s) and securely tighten the screw(s).

Note: Do not exceed 15 in.-lbs. of torque.

Note: Cord cap must be plugged in OUTSIDE the Hazardous Area!

A "lockout" tab can be placed to prevent unauthorized access to pushbutton during maintenance or off hours. Slide the tab through the pushbutton operator and use a padlock to secure Stop button.

MAINTENANCE

WARNING: To prevent explosions and shock hazard, always disconnect primary power before opening the enclosure for inspection or service.

- Perform visual, electrical and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice For Electrical Equipment Maintenance (www.nfpa.org).
- Frequent inspection should be made. A schedule for maintenance checks
- should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.
- Perform visual, electrical and mechanical checks on all components on a regular basis.
- Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts or leakage evidenced by water or corrosion in the interior.
- Electrically check to make sure that all connections are clean and tight, and that contacts in the components make or break as required.
- Mechanically check that all parts are properly assembled and that operating mechanisms move freely.

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.