

EPS-PB10-3XC

Explosion Proof Mushroom Push Button Switch - (3) Contact Blocks - Class I and II, Division 1 and 2

Product ID: 148860



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPS-PB10-3XC Explosion Proof Push Button

Unit Type: Explosion Proof Push Button Switch

Dimensions: 5 3/32" x 3 1/2" x 3 1/16"

Weight: 8 lb

Voltage: 600 V AC

Amps: 10A

Poles: Double Pole

Contacts: (3 Sets) NO or NC

Operating Temp: -20°C to +40°C

Material: Copper Free Aluminum

Mount: Surface/Conduit

Configuration: Dead End or Feed Thru

Hub Size Options: 3/4" NPT or 1/2" NPT

Ratings/Features:

Listed for United States & Canada

Class I, Div 1 & 2, Group C, D

Class II, Div 1, Groups E, F, G

Class II, Div 2, Groups F, G

Class III

NEMA 3, 7 (C,D), 9 (E, F, G)

Special Orders - Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

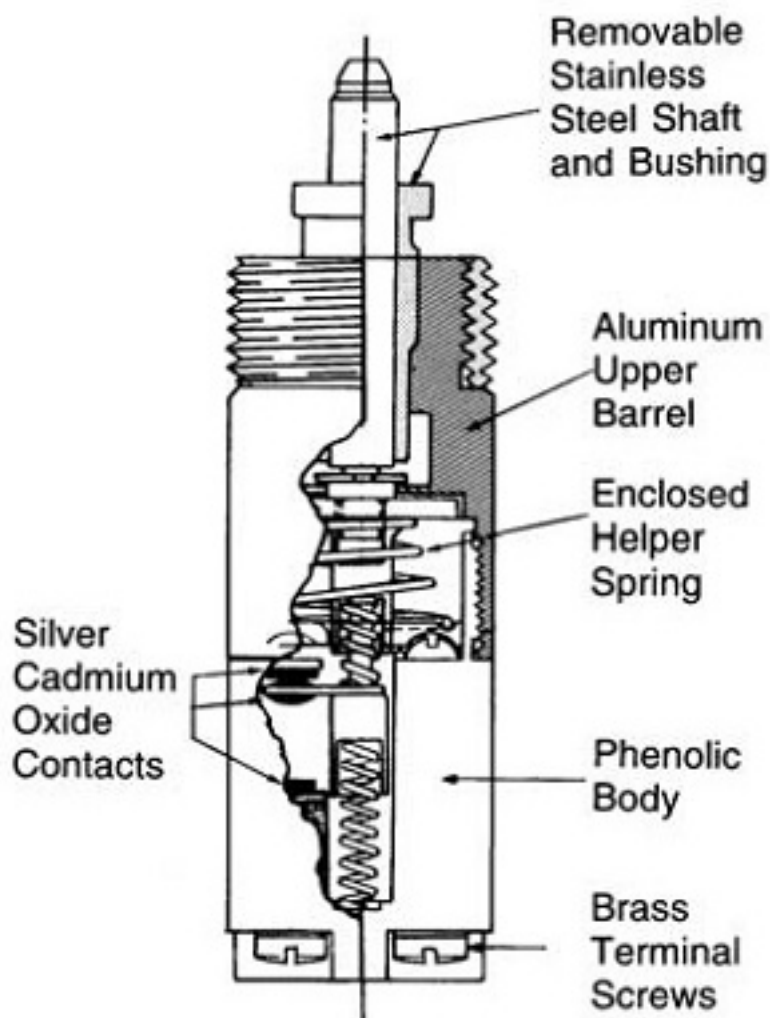
E-mail: sales@larsonelectronics.com

The EPS-PB10-3XC from Larson Electronics is an Explosion Proof Single Push Button Switch that is designed for use in hazardous work areas, such as chemical plants, oil refineries, and settings where combustible gases or dust may be present. This 10-amp device features the following explosion proof ratings: Class I Division 1 and 2; and Class II Division 1 and 2. In industrial and commercial settings, the front-operated push button switch may be used to support basic features of machines lacking electrical circuits for control. When ordering this unit, buyers may choose from 1/2" and 3/4", dead end and feed thru options.

Features: This explosion proof push button switch is rated for 10 amps at 600 V

AC, 60 Hz. This push button features 3 contact blocks for up to 3 connections and comes in a switch configuration of normally open or normally closed. The device supports operating temperatures between -20°C to 40°C. It is enclosed in a separate sealing chamber, and the sealing chamber has smooth, double flanges that mate both to the cover and the mounting enclosure to provide flame tight joints.

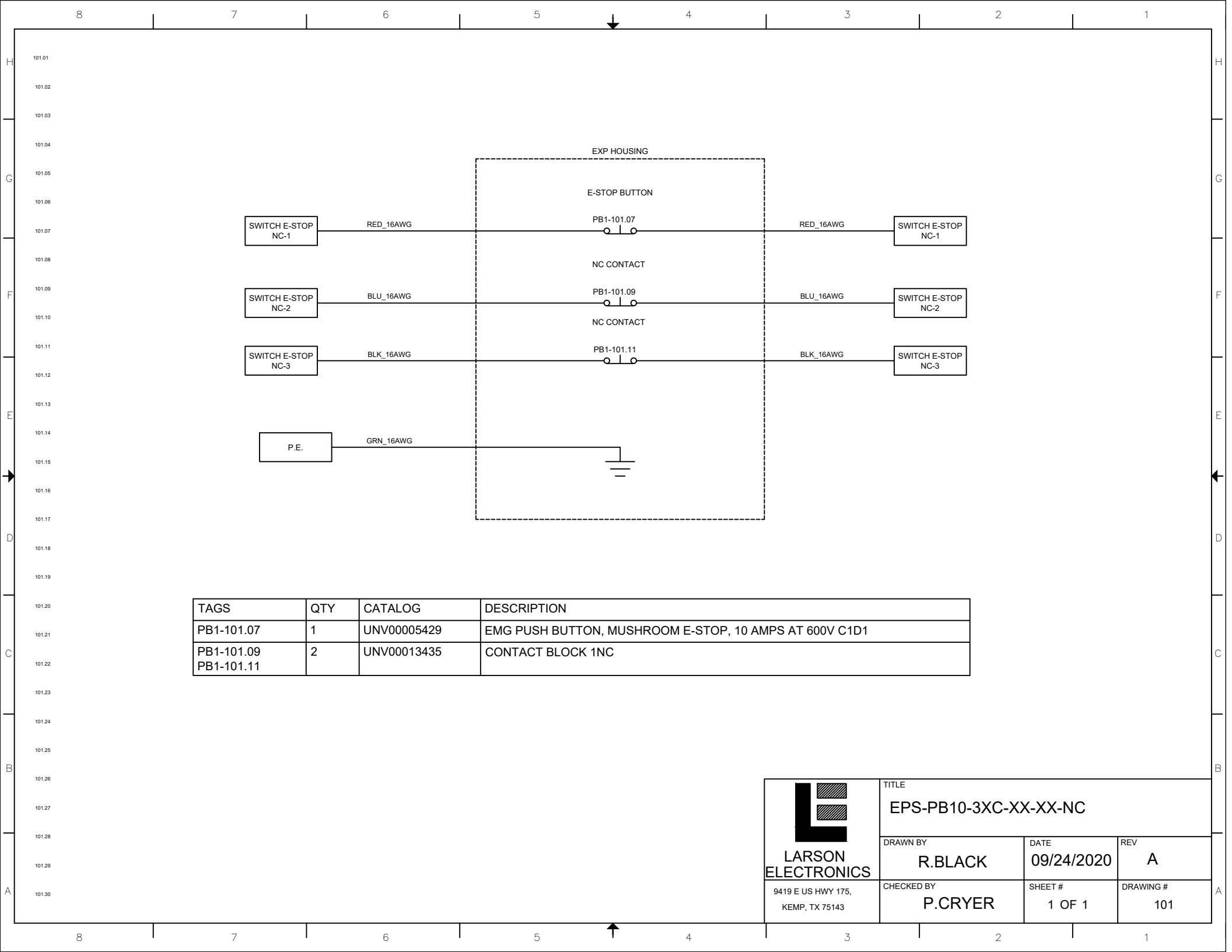
On this unit, the screws consist of stainless steel captive screws and attach the sealing chamber to cover and mounting enclosure. The switch is supplied with an internal ground screw. Its housing is constructed of copper-free aluminum, finished with aluminum acrylic paint. With the robust protruding button design, workers using thick gloves may find the device easier to activate, compared to a traditional push button switch design.



Options: This device features 1/2" and 3/4" dead end and feed thru options. Both options come with Class I Divisions 1 and 2 (Groups C and D), Class II Divisions 1 and 2 (Groups E, F and G) and Class III explosion proof ratings. The components also comply with UL 894, UL 1203 and UL 698 standards, and support NEMA 3/7, CSA Standard: C22.2 No. 30 ratings.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

8	7	6	5	4	3	2	1
REV	DESCRIPTION						DATE
A	PRODUCTION RELEASE						09/24/2020
EPS-PB10-3XC-XX-XX-NC 							
8	7	6	5	4	3	2	1



TAGS	QTY	CATALOG	DESCRIPTION
PB1-101.07	1	UNV00005429	EMG PUSH BUTTON, MUSHROOM E-STOP, 10 AMPS AT 600V C1D1
PB1-101.09	2	UNV00013435	CONTACT BLOCK 1NC
PB1-101.11			



**LARSON
ELECTRONICS**

9419 E US HWY 175,
KEMP, TX 75143

TITLE
EPS-PB10-3XC-XX-XX-NC

DRAWN BY
R.BLACK

CHECKED BY
P.CRYER

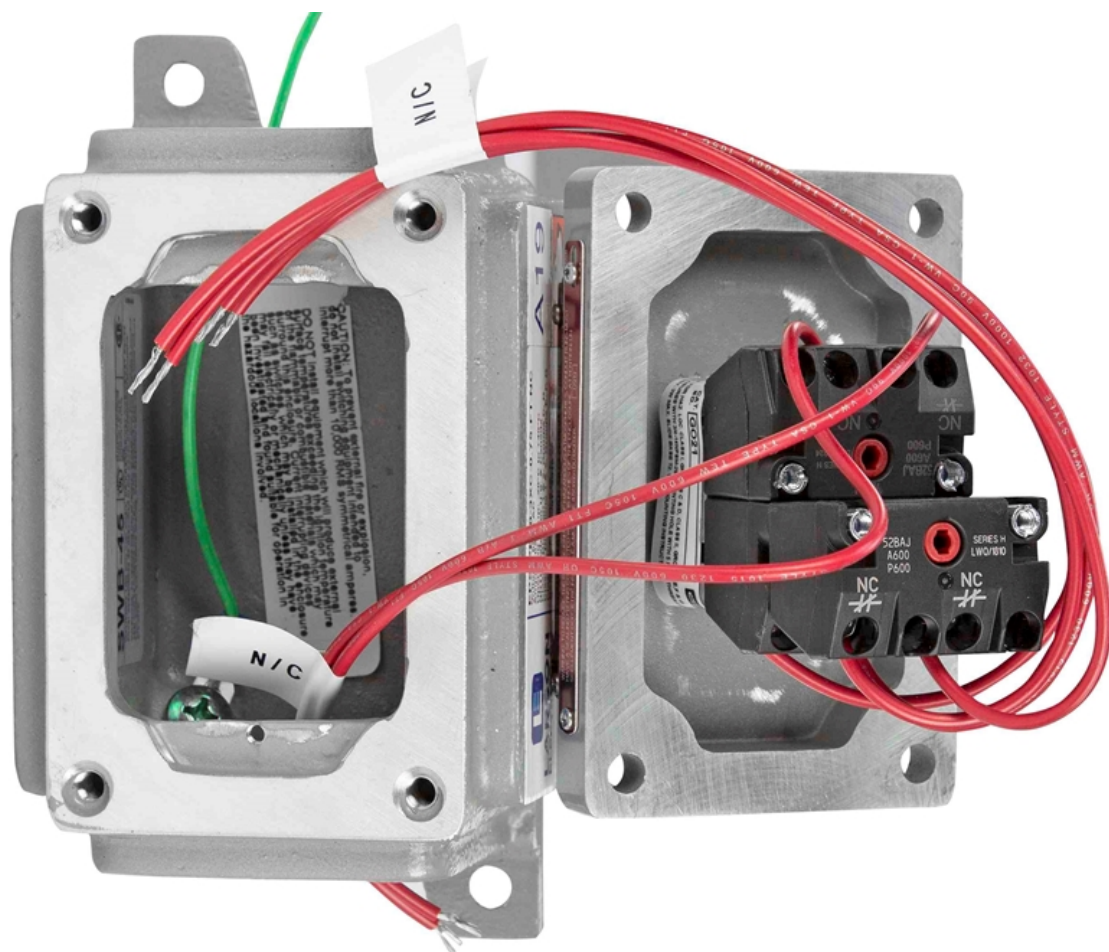
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09/24/2020

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1 OF 1

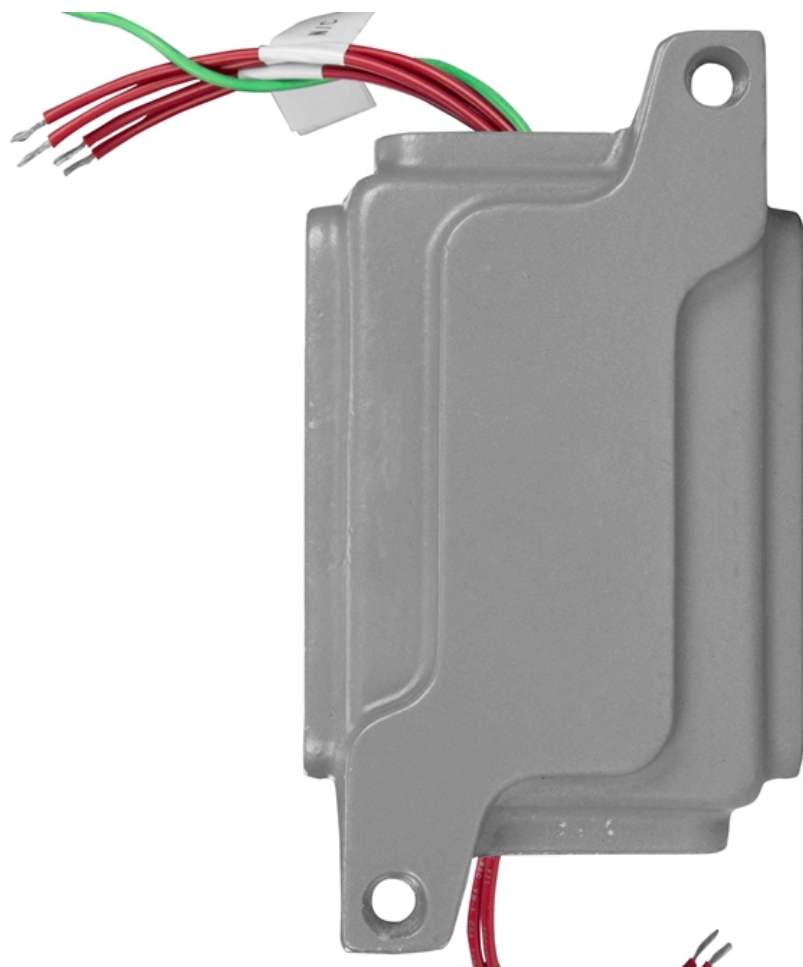
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101











Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPS-PB10 Series
Description: Explosion Proof Push Button

Evaluated Listings:

UL: E53360, E12379, E10514 – NEC / United States standards

CSA: LR11712, LR11714, LR11716 – CEC / Canada standards

The EPS-PB10 is certified to NEC, CEC, ATEX, and IEC Ex standards for hazardous locations for:

- NEC: Class I, Divisions 1&2, Groups C, D; Class II, Divisions 1&2, Groups E, F, G
- CEC: Class I, Divisions 1&2, Groups C, D; Class II, Divisions 1&2, Groups E, F, G

The EPS-PB10 is comprised of a Killark SWB, GSC, or BE7 series device enclosure. This device enclosure contains a Killark GO or GZ device operator, custom mounting of the device operator, wire connections, and contact blocks. This assembly is built to NEC and CEC standards for hazardous locations.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Material Safety Data Sheet

To Whom It May Concern,

The Larson Electronics LLC EPS industrial line of explosion proof switches and controls for hazardous locations are considered “ARTICLES” under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS). This document does not expire.

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

- i. Which is formed to a specific shape or design during manufacture;
- ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
- iii. Which under normal conditions does not release more than very small quantities.

The “hazardous location” and “explosion proof” are terminology for the environment where these products will be installed. This is not to be confused with “hazardous materials;” this product does not contain any hazardous materials.

Regards,

Ray Smith
Larson Electronics, LLC.



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPS Series
Description: Explosion Proof Switches

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE

CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The EPS series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC

Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas

Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPS Series
Description: Explosion Proof Switches

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPS Series
Description: Explosion Proof Switches

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature:

Name: James Thomas
Position: Operations Manager

Frequently Asked Questions (FAQ)