

EPS-PB10-MS-AT-V3

Explosion Proof Push Button Momentary Switch - C1D1, C2D1 - Adjustable Timer - 10 sec-170 Minutes

Product ID: 149527



Image: EPS-PB10-MS-AT-V3

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-MS-AT-V3 Explosion Proof Push Button Switch

Unit Type: Explosion Proof Push Button Momentary Switch

Dimensions: -

Weight: -

Voltage: 100-240 VAC/DC 50/60 Hz

Rated Amps: 10 (Rated @ 600VAC)

Timer Range: 10 seconds to 170 minutes in 10 second increments

Repeat Accuracy: $\pm 0.5\%$ or 20ms, Whichever is Greater

Setting Accuracy: $\pm 2\%$ or 20ms, Whichever is Greater

Reset Time: = 150ms

Materials: Malleable Aluminum Body w/ Aluminum Cover

Mounting: Surface

Hub Configurations: Dead End or Feed Thru

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

Termination Options: Normally Open or Normally Closed

Color Options (Buttons): Red, Green or Black

Features/Ratings

Class I, Divisions 1 & 2 Groups C & D

Class II, Divisions 1 & 2 Groups E, F, G

Class III

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

Solid-state, Encapsulated Timer

External sealing required within 18"

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics EPS-PB10-MS-AT-V2 Explosion Proof Push Button Momentary Switch 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, termination and color (button) options.

The EPS-PB10-MS-AT-V2 offers adjusted timing control of motors in hazardous locations. This explosion proof switch is designed to operate with 100-240VAC/DC 50/60 Hz and comes with a 10-amp rating (at 600VAC). 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 second - 170 minutes in 1 second increments). The timer component features a repeating accuracy value of +/- 0.5% and a setting accuracy value of +/- 2%.

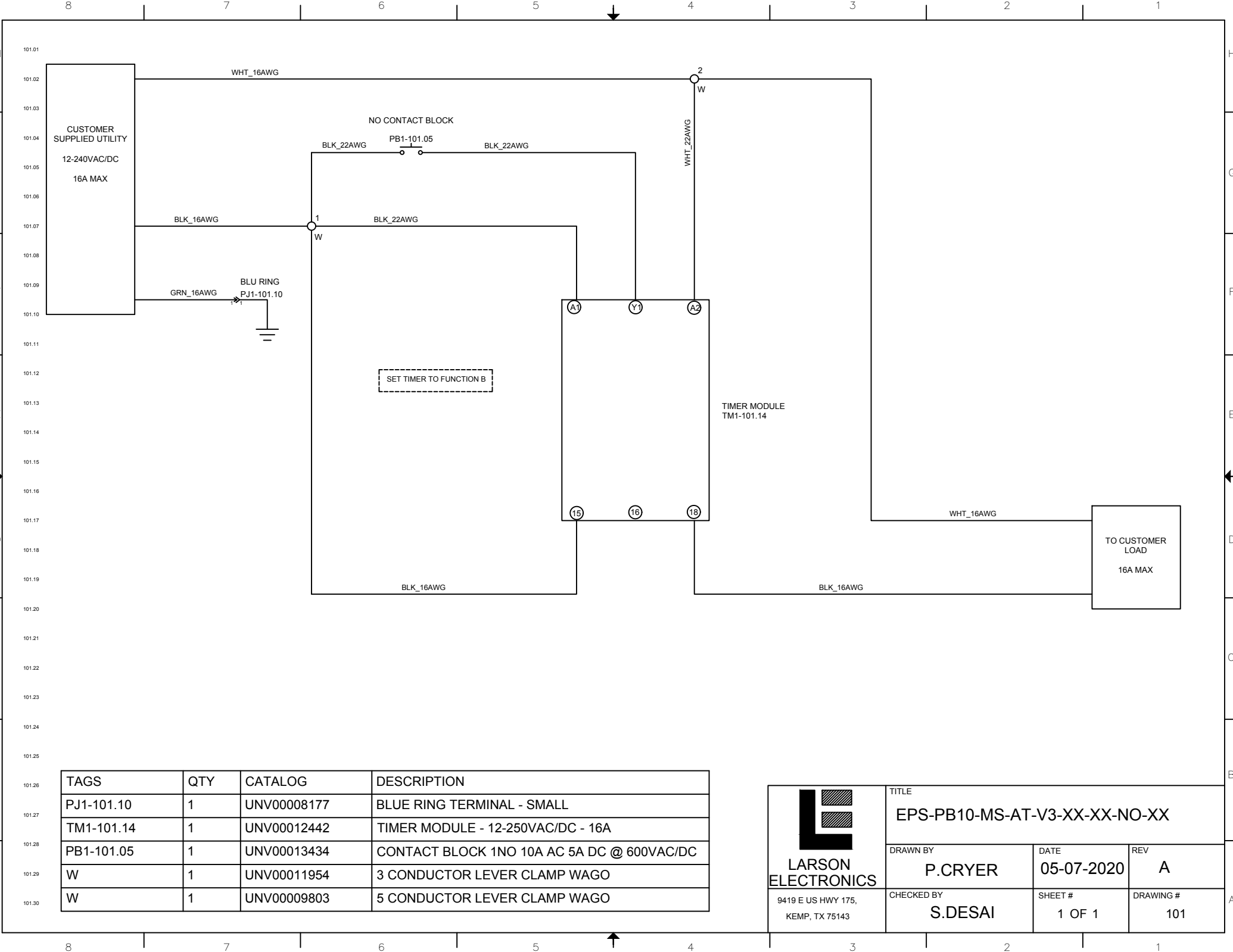
The explosion proof device is constructed of malleable aluminum with an aluminum cover and an epoxy powder coated finish. The switch is enclosed in a separate sealing chamber and the sealing chamber has smooth, double flanges that mate both to the cover and the mounting enclosure to provide flame tight joints. Operators connect to the switch via an internal terminal strip. The screws consist of stainless steel captive screws and attach the sealing chamber to the cover and mounting enclosure. This unit is offered in dead end or feed thru configurations, with 1/2" or 3/4" NPT hubs. Color options for the button includes red, green or black.

Applications: Petroleum refineries, chemical and petrochemical plants, paint spray booths, food manufacturing buildings, motor control, agricultural sites, wood shops, metal processing and more.

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						5-7-2020
EPS-PB10-MS-AT-V3-XX-XX-NO-XX							
							
8	7	6	5	4	3	2	1





TAGS	QTY	CATALOG	DESCRIPTION
PJ1-101.10	1	UNV00008177	BLUE RING TERMINAL - SMALL
TM1-101.14	1	UNV00012442	TIMER MODULE - 12-250VAC/DC - 16A
PB1-101.05	1	UNV00013434	CONTACT BLOCK 1NO 10A AC 5A DC @ 600VAC/DC
W	1	UNV00011954	3 CONDUCTOR LEVER CLAMP WAGO
W	1	UNV00009803	5 CONDUCTOR LEVER CLAMP WAGO



LARSON
ELECTRONICS

9419 E US HWY 175,
KEMP, TX 75143

TITLE EPS-PB10-MS-AT-V3-XX-XX-NO-XX			
DRAWN BY P.CRyer	DATE 05-07-2020	REV A	
CHECKED BY S.DESAI	SHEET # 1 OF 1	DRAWING # 101	

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671



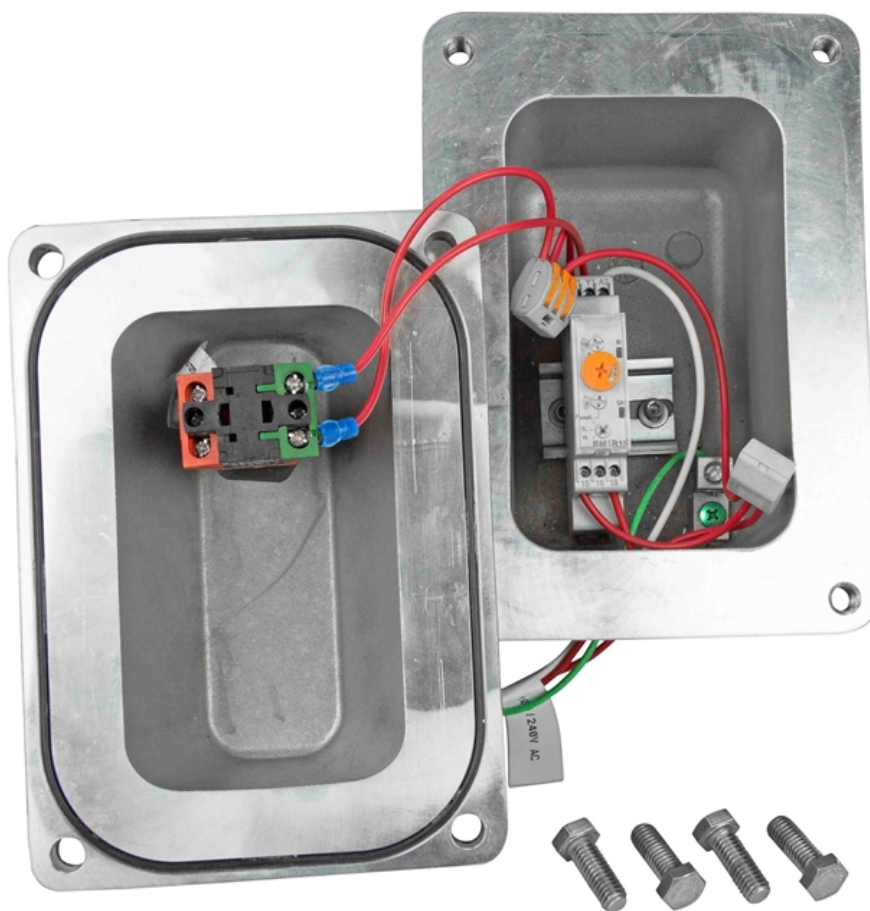
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Certification

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)

There are no Faqs