Larson Electronics LLC
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HLSW-AE.EX-FG-PB-16A-MS-GRN-C3-N-W1-G1

Explosion Proof Push Button, Green, Momentary, ATEX/IECEx, M20 Hub, (1) N/O & (1) N/C Contacts

Product ID: 244166



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.

HLSW-AE.EX-FG-PB-16A-MS-GRN-C3-N-W1-G1 Flameproof Push Button

Listing: NRTL Listed for ATEX/IECEx Locations
Unit Type: Explosion Proof Single Push Button
Dimensions: 3.74" x 3.38" x 2.99" (95mm x 86mm x 76mm)
Weight: 0.82 lbs
Rated Voltage: 100-250V AC, 10-110V DC
Rated Frequency: 50/60Hz
Amperage Rating: 16A (100-250V AC), 1A (10-110V DC)
Mechanical Life: 100,000+ Operations
Push Button Type: Momentary
Push Button Color: Green
Contact Configuration: (1) NO, (1) NC
Label/Marking: -
Operating Temp: -40°C to +50°C
Materials: Static Resistant Plastic Alloy (Housing), Silver (Contacts)
Mounting: Pendant
Terminals: 2.5mm (Component), 4mm (PE)
Cable Entry: (1) M20 x 1.5 - Molded Plastic, Bottom Entry
Maximum Cable OD: 5.5mm-13mm

Ratings

Approved for Zone 1 and 2
Approved for Zone 21 and 22
ATEX EX II 2 GD
IEC Ex d e IIC T6 Gd IP66
IEC Ex tb IIC T80°C Db
Temp Rating -40Ta50
NRTL Certified to IEC 60079
NRTL Certified to EN 60079
CE Certified
Conforms to CE 0575
IP66 Weatherproof

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
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PLEASE NOTE: The HLSW-AE.EX series of explosion proof switches, operators, buttons, lights, and dials are certified to European Union (ATEX) and International (IEC Ex) standards and are approved for installing in these locations. This unit IS NOT certified to United States (NEC) or Canadian (CEC) standards for hazardous location. This unit DOES NOT carry UL or CSA ratings. Please contact Larson Electronics for NEC/CEC equvilant version of this product if you intend to install the product in United States, Canada, or any country that followed NEC or CEC electrical standards.

The Larson Electronics HLSW-AE.EX-FG-PB-16A-MS-GRN-C3-N-W1-G1 Explosion Proof Push Button is a compact solution for controlling industrial machinery or equipment in flammable environments. This device is compatible with 100-250V AC/10-110V DC and contains NO and NC contacts. The IP66-rated single push button is protected by a static

resistant plastic alloy housing.

PLEASE NOTE: The HLSW-AE.EX series of explosion proof switches, operators, buttons, lights, and dials are certified to European Union (ATEX) and International (IEC Ex) standards and are approved for installing in these locations. This unit IS NOT certified to United States (NEC) or Canadian (CEC) standards for hazardous location. This unit DOES NOT carry UL or CSA ratings. Please contact Larson Electronics for NEC/CEC equvilant version of this product if you intend to install the product in United States, Canada, or any country that followed NEC or CEC electrical standards.

The HLSW-AE.EX-FG-PB-16A-MS-GRN-C3-N-W1-G1 is designed for use in Zones 1/2 and Zones 21/22 rated combustible locations. This unit is rated for 100-250V AC at 16 amps and 10-110V DC at 1 amp. Featuring more than 100,000 operating cycles, the green push button operates with momentary action (maintained action is available at an additional cost). The device may also be offered with standard lockout/tag out and maintained lockout features. This push button can be added to custom control station builds that contain pilot lights, other push buttons, emergency stop, selector switches, sensors and more.

This explosion proof push button is constructed of static resistant plastic alloy with silver contacts. The IP66-rated device is suitable for ATEX/IECEx rated work sites with operating temperatures ranging between -40°C and +50°C. There are no labels or marking on this push button. We offer both custom labels (upon request) and the following selection of markings at an additional cost: On, Off, Start, Stop, I, O, Forward, Reverse and directional arrows.

The weatherproof unit contains (1) normally open and (1) normally closed contacts. We offer a variety of contact configurations, such as: (2) normally open, (2) normally closed, (2) normally open and (2) normally closed, (4) normally open, (4) normally closed, (3) normally open and (1) normally closed, as well as (1) normally open and (3) normally closed.

Wiring: This non-illuminated device is equipped with 2.5mm terminals for component connections and 4mm terminals for PE connections. Cable entry is facilitated by one M20 x 1.5 molded plastic hub located at the bottom of the unit. To cater to other system or project requirements, we can offer this push button in M20 or M25, as well as in nickel-plated brass or stainless. Maximum outer cable diameter range for the hub is 5.5mm to 13mm.

Mounting: The HLSW-AE.EX-FG-PB-16A-MS-GRN-C3-N-W1-G1 is compatible with pendant mounting applications.

Applications: Petroleum refineries, chemical and petrochemical plants, paint spray booths, food manufacturing buildings, agricultural operations, grain storage centers, industrial equipment 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.


IECEx CML 17.0025X CML 17ATEX1040X
II 2 G D Ex db eb IIC T6 Gb Max :16A 250V
Ex tb IIIC T80°C Db -40°C≤ Ta ≤+55°C IP66
EXPLOSION-PROOF ELECTRIC APPLIANCES


IECEx CML 17.0025X CML 17ATEX1045X
II 2 G D Ex db eb IIC T6 Gb Max 16A 250V
Ex tb IIIC T80°C Db -40°C ≤ Tax ≤ +55°C IP66
EXPLOSION-PROOF ELECTRIC APPLIANCES

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: HLSW-AE.EX-FG Series
Description: Flameproof Operators, Indicators, and Devices

The HLSW-AE.EX-FG series of flameproof operators, indicators, and devices (push buttons, mushroom push buttons, indicator lights, dials, switches, and potentiometers) are comprised of a CZ0240 series device box in combination with CZ0201 and/or CZ0203 series device(s), wired and assembled to voltage and wiring per sku variants. The device may include custom external mounting brackets, labeling, hub configurations, or other customizations. The HLSW-AE.EX-FG Series complies with the essential protection requirements of the European Parliament of the Council Directive for ATEX Directive and IEC Ex certified. This certification applies to all specimens manufactured in accordance to the manufactures drawings.

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

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC EPL, EPCS, EPS, EPSW, HLX, and HLSW industrial line of switches and operators 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).

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.

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Certification

Manufacturer: Larson Electronics LLC
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Declare the following equipment conforms to the standard(s) as listed:

Model: HLSW-AE.EX-FG Series
Description: Flameproof Operators, Indicators, and Devices

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 HLSW-AE.EX-FG 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

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Evaluated Listings:

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

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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: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)