Larson Electronics LLC
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EXP-SD-SFC-120V-V2

3.5W Explosion Proof Smoke Detector, C1D1, 120V AC, Duct Mount, IP44, (2) 3/4" NPT

Product ID: 333149

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EXP-SD-SFC-120V-V2

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.

EXP-SD-SFC-120V-V2 Explosion Proof Smoke Detector

Listing: United States, Canada, EU, International
Type: Explosion Proof Smoke Alarm
Dimensions: 5.154"D x 14.971"W x 7.48"H
Weight: 7.85 lb
Voltage: 120V AC
Watts: 3.5W (Maximum)
Smoke Alarm Relay: Form C, 5A @ 30V DC - NO/NC Contacts + Normally De-energized Operation
Trouble Relay: Form A, 5A @ 30V DC - NO Contacts + Normally Energized Operation
Auxiliary Relay: Form C, 5A @ 30V DC - NO/NC Contacts + Normally De-energized Operation
Current Output: 0-20 mA (±0.3 mA) DC w/ Max Loop Resistance of 300 ohms from 12-17.9V DC
Operating Temperature Range: –20°C to +65°C
Humidity Range: 5 to 95% RH
Materials: Polycarbonate/ABS (Detector), Copper-free Aluminum (Junction Box)
Mounting: Duct Mount
Terminals/Wire Size: 14-18 AWG Rated (Shielded Stranded Copper Wire)
Hubs: (2) 3/4" NPT
Color: Red/White

Ratings/Features

Class I, Division 1 Groups B,C,D
Class I, Division 2 Groups A,B,C,D
Class I, Zone 1
AEX db ia IIC T4 Gb
IECEx FMG15.0014X
Tamb –20°C to +65°C

IP44

Test Switch/LED Indicator

Special Orders - Special Requirements

Contact us for special requirements
Toll Free:1-800-369-6671
Intl: 1-214-616-6180
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The EXP-SD-SFC-120V-V2 from Larson Electronics is an Explosion Proof Smoke Detector that is designed for combustible facilities. This 120V AC smoke alarm contains three sets of relays, a magnetic test switch, and an LED indicator. Constructed of polycarbonate/ABS and copper-free aluminum, the IP44 rated unit is compatible with duct mounting applications.

The EXP-SD-SFC-120V-V2 is a cutting-edge smoke detector for use in flammable work sites. Equipped with a magnetic test switch and an LED indicator, this low voltage unit operates on 120V AC. A low output range of 0-20 mA ensures seamless integration with Distributed Control Systems (DCS). The LED indicator flashes once every four seconds on standby mode. When the alarm is activated, the LED light is steady on. The unit will automatically deactivate the alarm after 10 seconds, when smoke falls below the threshold for detection.

The explosion proof device contains three sets of relays (total of 8 relay outputs): Smoke Alarm, Trouble and Auxiliary. The 5-amp smoke alarm relay is Form C with normally open and normally closed contacts, as well as normally de-energized operation. The 5-amp trouble relay is Form A with normally open contacts and normally energized operation. The 5-amp auxiliary relay is Form C with normally open and normally closed contacts, as well as normally de-energized operation.

The explosion proof smoke alarm is constructed of polycarbonate/ABS, with a copper-free aluminum junction box. When mounted to ducts, the unit is IP44 rated. This explosion proof detector features a T4 temperature rating and is ATEX/IECEx rated.

Wiring/Hubs: The EXP-SD-SFC-120V-V2 contains terminals that accept 14-18 AWG shielded stranded copper wire during installation. Operators may access a total of two 3/4" NPT hubs to complete electrical connections.

Mounting: Operators can mount the explosion proof device on ducts.

Applications: Combustible storage buildings, hazardous locations, chemical manufacturing, petroleum refineries, battery rooms, turbine enclosures, industrial operations 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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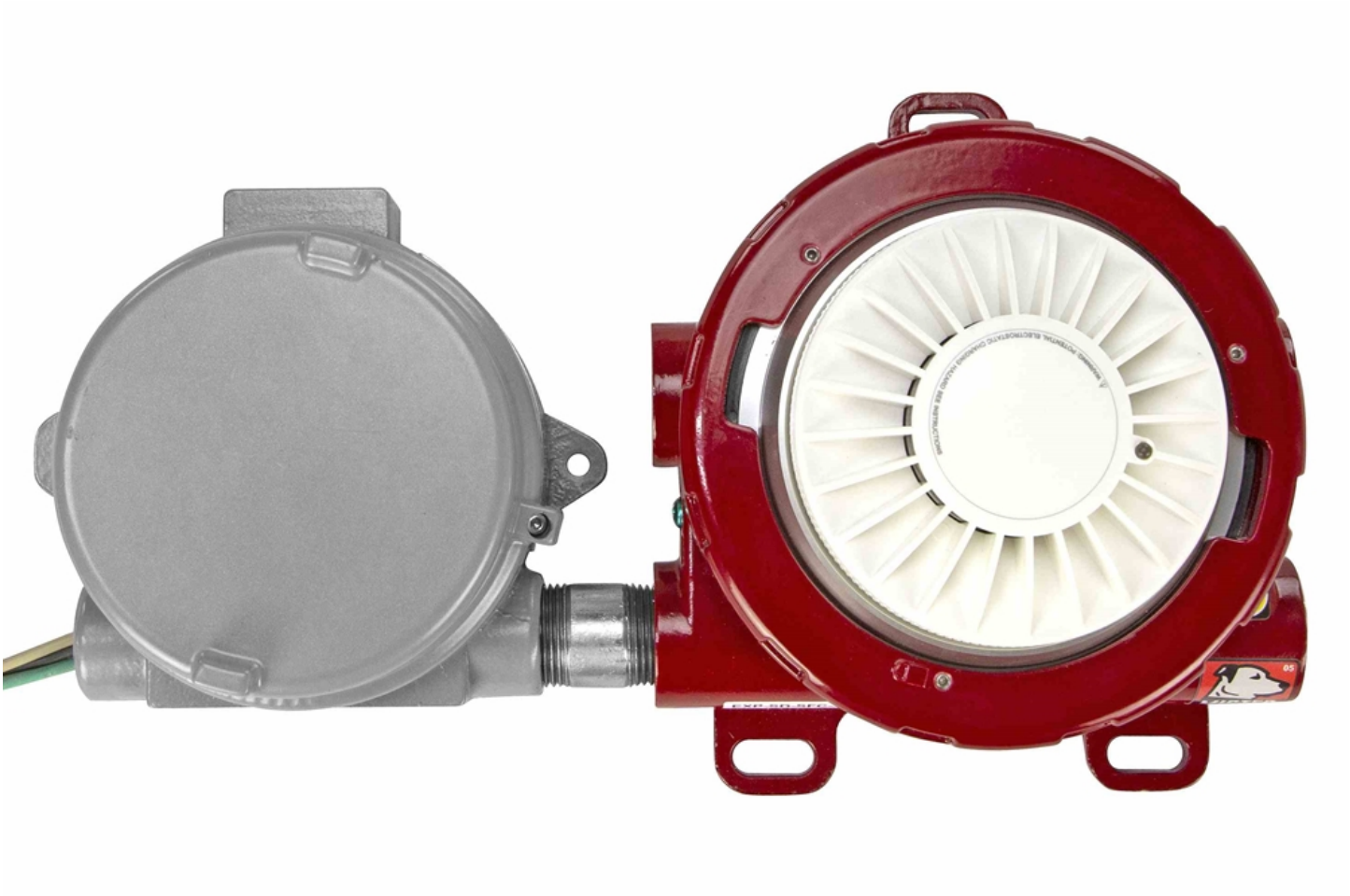


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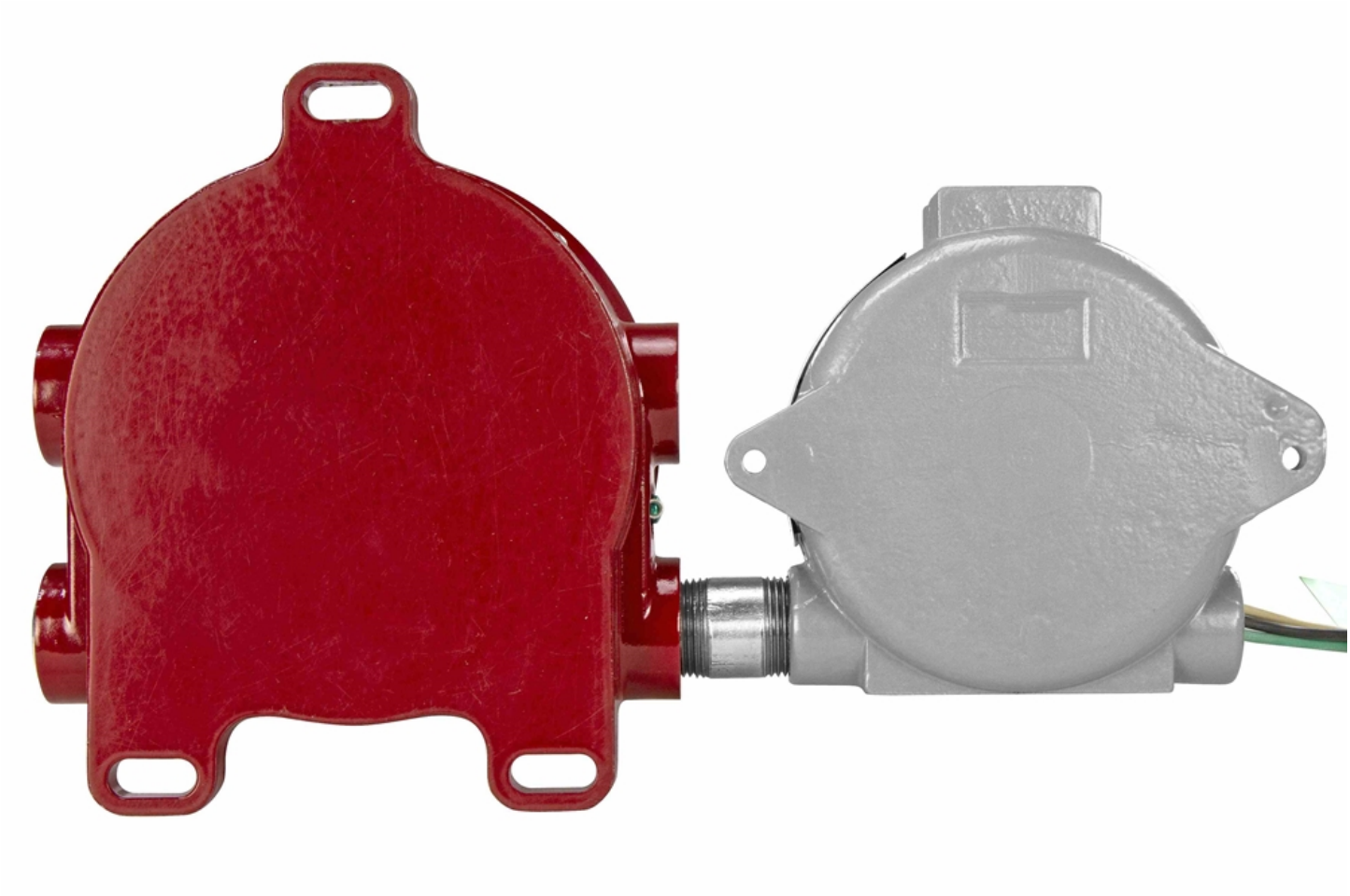


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Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/333149.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/333149.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/333149.ZIP)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/333149.JPG)
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- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/333149.JPG)
- **Video1**(https://www.youtube.com/watch?v=xCAk4FhD8L0)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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