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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

IND-DBL-FUVC-EX-36-1L-R1-120V

Door Barrier Germicidal Far UV-C Fixture - (1) 40W 222 nm UV-C Excimer Lamp - 36" Wide - Hospital Grade Stainless Steel

Product ID: 269194



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.

This unit is Made In USA - Manufactured in Texas

IND-DBL-FUVC-EX-36-1L-R1-120V High Output Door Barrier Far UV-C Germicidal Fixture

Lamp Technology: Far UV-C Excimer
Dimensions: 7.00"H x 36.00"W x 4.00"D
Weight: -
Voltage: 120 V AC, 50/60 Hz
Total Watts: 40W
Total UV Output: -
Effective UV Intensity: 40 uW/cm2 @ 1.57"
Expected Lifespan: 10,000+ Hours
UV Wavelength: Far UV-C, 222nm
Lamp Type: UV-C Excimer
Replacement Lamp: FRL-EMX-6-40W-FUVC
Beam Angle: 180°
Light Configuration: Flood
Amps: -
Ambient Operating Temp Range: -
Materials: Hospital Grade 304 Stainless Steel Enclosure
Adjustable Beam: No
Mounting: Wall Mount

Ratings/Features

222nm Germicidal Light
Kills 99% of Viruses and Other Germs
Mercury Free Lamp
Instant-On Lamp, No Warm Up Time
More Efficient & Effective than UVC Lamps
No Harmful UVC Emissions
No Block Off/Bandpass/Cutoff Filters) Needed
Skin Safe & Eye Safe
Ozone Free
Low Heat Output
No Protective Equipment Required to Pass Under
Destroys Airborne Bacteria and Viruses
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

Special Orders - Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

***PLEASE NOTE: Walking through the UV-C light produced by this fixture is completely safe because the short time it takes to walk through the light does not expose people to harmful levels of radiation. However, if stood directly under, it can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING

TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.***

This unit is Made In USA - Manufactured in Texas

The IND-DBL-FUVC-EX-36-1L-R1-120V from Larson Electronics is a Door Barrier Far UV-C Fixture that projects a concentrated beam of germicidal UV-C light into doorways from above. This beam provides a high-intensity dose of UV-C light to people passing through the doorway. This brief exposure offers an additional layer of germ killing safety to anyone who walks through the doorway above which the IND-DBL-FUVC-EX-36-1L-R1-120V is installed and helps to effectively control the airborne transmission of microorganisms between areas. This hospital grade stainless steel door barrier germicidal fixture features a 40-watt UV excimer lamp that produces far-UVC output at a wavelength of 222nm. The IND-DBL-FUVC-EX-36-1L-R1-120V is designed to be mounted above a doorway, operates on 120 V AC current, and is hard wired. Multiple units can be mounted in tandem to cover wider doorways.

Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores, and bacteria. Click here to learn more about UVC and the corona virus*

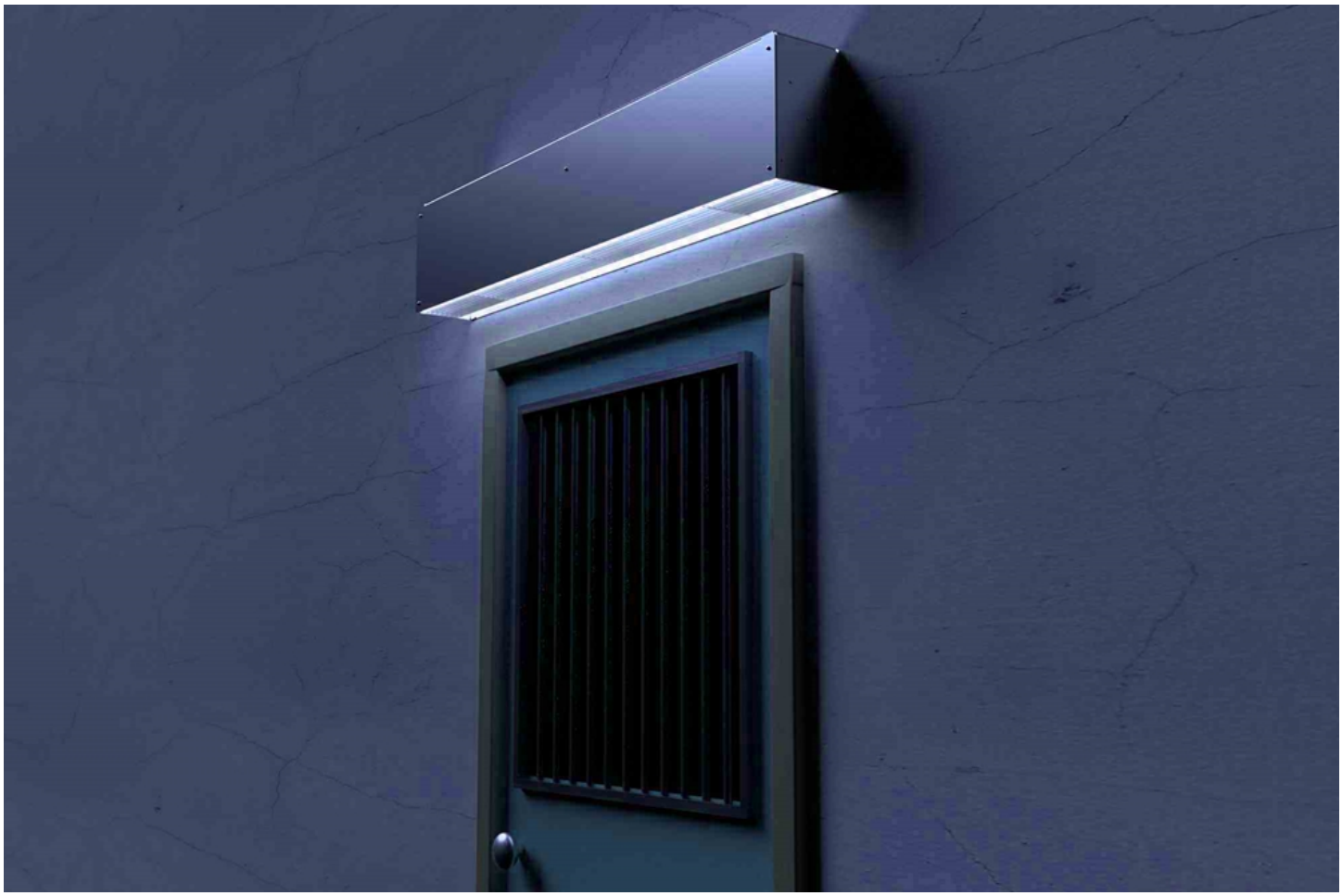
The IND-DBL-FUVC-EX-36-1L-R1-120V is a powerful sanitation solution for clinics, hospitals, operating rooms, and labs. This system consists of one 40-watt excimer lamp that provides 222nm far UV-C output. Equipped with an expected lifespan of 10,000+ hours, the light emits a flood beam pattern. The IND-DBL-FUVC-EX-36-1L-R1-120V does NOT have a motion sensor. Instead, it remains on continuously. This door barrier germicidal fixture provides 170 microwatts per square centimeter at three feet below the fixture and 30 microwatts per square centimeter at floor level when mounted above a seven foot tall door.

Operation: This high output UV door barrier germicidal fixture projects ultraviolet rays into the doorway it is mounted above. Bacteria and viruses present in the air that passes through the UV rays produced by the fixture are destroyed. The IND-DBL-FUVC-EX-36-1L-R1-120V projects a beam of UV-C light straight down from above the doorway to the floor.

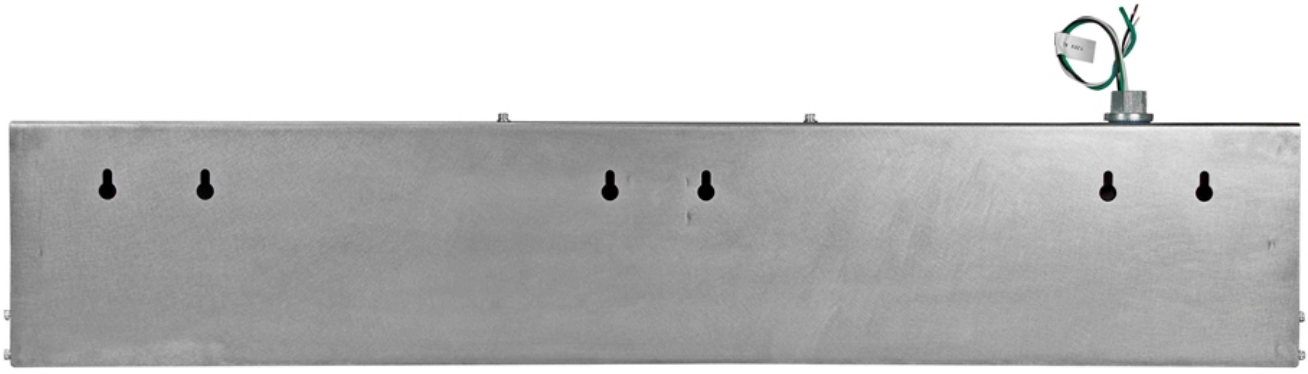
Far-UV 222 nm light is considered to be eye and skin safe for humans, allowing the lamps to be used in occupied areas safely with minimum risk. The 222 nm wavelength does not penetrate the cornea of the eye and cannot impose corneal impairment. Additionally, this UV band is blocked by the top layer of skin (stratum corneum) which protects underlying cells from damage. Exposure to far-UV 222 nm lamp does not cause skin inflammation or swelling. Due to these safety benefits, extensive protective clothing is not required when using this type of sanitation light in occupied areas.

Benefits of Excimer Far UV Lamps: When it comes to Far-UV lamps, there are few options in the skin-safe and eye-safe wavelengths. Similar to LED lamps, excimer lamps provide "instant-on" startup, and do not require a warmup period; excimer lamps are at 100% peak output when switched on. Most lamp technologies that do product UVC use mercury in the manufacturing process. Excimer lamps have ZERO mercury, making them more environmentally friendly. Excimer lamps can be tuned to specific wavelengths (222nm wavelength for this product) and produce no harmful UVC radiation or wasteful visible light and infrared light. Excimer lamps are more efficient at converting electricity (input power) into UV irradiance, which reduces the heat output from excimer lamps over other technologies. Fluorescent, amalgam, low-pressure mercury, and high-pressure mercury lamps do not product as tight of a wavelength and generate more heat, both of which wastes energy for the UV sanitation application. Excimer lamps have a higher average UV irradiance per square inch and have a higher photon emission over other lamp technologies. Being safe for use in occupied areas, instant-on power, mercury free, higher UV output, and low heat output make Far-UV excimer lamps the preferred choice for UV sanitation and disinfecting

applications.
Germicidal excimer lamps emit far-UV 222 nm light that is generated by specific excimer molecules. The far-UV lights come with an expected lifespan of 10,000+ hours. This gas-filled emitter is energy efficient and offers cool operation. A power supply is typically utilized with the non-toxic lamp to ensure consistent UV output. The sanitation light, which is suitable for use in occupied areas, features instant start capabilities.
Construction: The enclosure of the IND-DBL-FUVC-EX-36-1L-R1-120V is built from hospital grade 304 stainless steel.
Mounting: The IND-DBL-FUVC-EX-36-1L-R1-120V is designed to be wall mounted.
Note on Environment: Sunlight and visible light fixtures do not impact the effectiveness of the disinfecting on this UVC sanitation product. Metal halide, high pressure sodium, fluorescent, and LED light fixtures can be left on. The UV radiation emitted from this product is not disrupted by any type of lighting in the environment. Put simply, NO it DOES NOT need to be dark in the area you plan to disinfect. Please see user manual for additional safety information.
Applications: This ultraviolet UV air duct disinfection system can be used to continuously disinfect air of mold, allergens, airborne bacteria, viruses, and germs. The IND-DBL-FUVC-EX-36-1L-R1-120V is ideal for use in hospitals, clinics, laboratories, clean rooms, and more.
Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.




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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: IND Series
Description: UV Light Machines and Light Fixtures

Evaluated Listings:

The IND Series UV Light Machines and UV Light Fixtures are certified to UL 508A and CSA C22.2 No 14 for industrial controls. Larson Electronics LLC is a certified “panel shop” and is certified for our engineering and manufacturing processes. Each unit is built to NEC and CEC electrical code. All electrical components used in the IND product line are certified to National Electric Code (NEC) for United States and Canadian Electric Code (CEC) for Canada. This includes all ballasts, sockets, tombstones, internal wiring, external wiring, buttons, relays, cord caps, and wire terminations. This is a requirement for our panel shop certification. Instead of certifying each part number, our shop is certified for our processes. This allows us to manufacture custom systems without the time delays associated with certifying each part number. Our shop undergoes regular audits for panel shop processes.

Each unit is inspected by our quality control department before shipment. Larson Electronics is an ISO 9001:2015 certified shop for quality control. Our shop undergoes regular audits for quality control processes.

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

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

LARSON ELECTRONICS LLC • 9419 E US HWY 175 • KEMP, TX 75143
p: 1-800-369-6671 • intl: 903-498-3363 • f: 903-498-3364 • sales@larsonelectronics.com

Form 3540-8 Accepted for Establishment LARSON ELECTRONICS LLC

From
helpdesk@epacdx.net

Re: Establishment Number: 98409-TX-1
EPA Region: 06

Larson Electronics LLC
Attn: Robert Bresnahan
9419 E US HWY 175

Kemp, TX 75143 USA

This email serves as notification of registration of the pesticide-producing establishment for which you applied, pursuant to Section 7 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The Form 3540-8 for establishment LARSON ELECTRONICS LLC has been accepted. The new Establishment Number is: 98409-TX-1. This establishment registration will remain in effect, provided pesticide reports on production and sales or distribution amounts are submitted annually as required.

Part 167 of the Code of Federal Regulations (40 CFR) requires your company to submit an initial report for Pesticide-Producing Establishments, EPA Form 3540-16, within 30 days of receipt of this email. You should submit electronically with the Section Seven Tracking System (SSTS) to ensure on-time delivery. You can find out how to register for e-reporting and submit your initial and annual reports quickly here: https://www.epa.gov/compliance/electronic-reporting-pesticide-establishments

Please note that the initial report asks for production amounts for year **2019**. **Failure to submit your Initial report(s) within 30 days may subject your establishment(s) to an administrative civil penalty.**

After the initial report, future reports must be submitted on a yearly basis. Production reports for establishments registered to produce pesticides and pesticidal devices are due by March 1st as long as the establishment is active, regardless of whether or not production has occured (regulations pursuant to Section 7 of FIFRA).

NOTE: EPA will not accept any faxes or emails of establishment initial or annual reports (EPA Form 3540-16).

Parts of the 40 CFR which apply to pesticide establishments are: (1) *Part 167-Registration of Pesticide and Active Ingredient Producing Establishments, Submission of Pesticide Reports* and (2) *Part 169-Books and Records of Pesticide Production and Distribution*.

Changes in name, address, or ownership of the company or any establishments are to be reported to this

office within thirty (30) days of the change. If your company decides to cease production of all pesticides and pesticidal-devices, you may request termination of the establishment(s). Requests for termination of establishments can be sent to the proper EPA Regional Coordinator in your area, or completed on our electronic reporting system at https://cdx.epa.gov.

The container of each pesticide product which is released for shipment must bear the EPA Establishment Number assigned to the establishment in which it was produced. This number, which is to be preceded by "EPA Est.", may appear in any suitable location on the label or immediate container. It must also appear on the outside container or wrapper of the package if the EPA Establishment Number on the immediate container cannot be clearly read.

For more information, FAQs and additional instructions please go to our website: https://www.epa.gov/compliance/pesticide-establishment-registration-and-reporting

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Sep 23, 2020

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Robert Bresnahan
Larson Electronics LLC
9419 E US HWY 175

Kemp, TX 75143

Subject: Assignment of New EPA Company Number

Dear Registrant:

The Office of Pesticide Programs received your request for a company/distributor number. The company number assigned to you is 98409.

You are required to notify the Agency of any change in name or address. All requests for change of company name and/or address, appointment of agent or withdrawal of an agent's appointment, must be sent to the following address:

Document Processing Desk(COADR)
Office of Pesticide Programs(7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

All products must be registered with the Agency prior to shipment and/or sale. Information on registering pesticide products can be obtained by calling the Registration Division Ombudsperson at (703) 308-8893. Requests for a Pesticide Registration Kit can be obtained via e-mail to: Hobgood.Sherada@epa.gov If you are only distributing a product you must complete the Notice of Supplemental Registration of Distributor (EPA form 8570-5). This form can also be obtained by calling the number listed above or can be downloaded at: https://www.epa.gov/pesticide-registration/pesticide-registration-manual-blank-forms.

Any production of pesticides, active ingredients or devices, including companies or establishments that import into the United States, must be conducted in a registered pesticide-producing or device-producing establishment. Information on registering an establishment can be downloaded at: https://www.epa.gov/compliance/epa-form-3540-8-application-registration-pesticide-producing-and-device-producing.

Sincerely,

Shirley A. Burgess

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Jiangsu Suqian Hengyi
Light Source Material Co., Ltd.
Material Safety Data Sheet (MSDS)

SECTION 1 — CHEMICAL PRODUCT AND PRODUCER IDENTIFICATION

Mercury 99.9999%

Jiangsu Suqian Hengyi Light Source Material Co., Ltd.
Registered Office : Xinghong City South; Flat 605
Suqian City, Jiangsu Province, China
Postal Code 223800
Tel 86 527 84226126

SECTION 2 — PRODUCT NAME, COMPOSITION AND INFORMATION

Mercury Purity 99.9999% （By weight）
CAS Nr. 7439-97-6
Synonym Quicksilver; Colloidal Mercury; Metallic Mercury; Hydragyrum
Usage As raw material for arc discharge lamps

SECTION 3 — PHYSICAL AND CHEMICAL PROPERTIES

Odorless, silver color, very heavy liquid metal.
Soluble in nitric acids; Insoluble in water, alcohol and ether.
Chemical Formula : Hg
Formula Weight : 200.59

Boiling Point : 356.7℃
Melting Point : -38.8℃
Specific Gravity : 13.55

SECTION 4 — HEALTH HAZARDS

Extremely high health hazards resulting from ingestion, skin absorption and inhalation of fume or vapor. Direct absorption by respiratory and intestinal tract. Corrosive to skin, eyes and mucous membranes.

SECTION 5 — FIRST AID PRECAUTIONS

Consult a physician and seek medical attention for further treatment, observation and support after first aid.
Inhalation : Transfer to fresh air at once. Administer artificial respiration immediately in case of breathing difficulty.
Eye or External : Immediately flush with fresh water for at least 15 minutes.
Internal : Rinse mouth. Consult a physician or poison control at once.

SECTION 6 — FIRE FIGHTING PRECAUTIONS

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Relatively stable, noncombustible liquid.
When heated to decomposition, emits toxic fumes of Hg.
Fire Fighting Instructions : Use dry chemical fire extinguisher to put out surrounding fire. Firefighters should wear PPE and SCBA with full facepiece operating in positive pressure mode.

SECTION 7 — SPILLAGE

Proliferation of droplets may result in toxic spillage, requiring special care in the clean up. Clean up all droplets and transfer to a safe container. Scatter zinc dust to amalgamate the spillage into solid. Ventilate and wash the area.

SECTION 8 — HANDLE AND STORAGE

Store in tightly enclosed corrosion-resistant glass or plastic containers; avoiding direct sun light and heat. Dispense in a plastic tray so that spillage can be easily recovered.

SECTION 9 — EXPOSURE CONTROLS AND PROTECTION

Always wear chemical splash goggles, chemical-resistant gloves and apron to avoid contact with eyes, skin and clothing. Ventilate the work area to maintain airborne concentration below exposure limits. Always wear a respirator with proper cartridges, or a positive pressure, air supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines :
STEL 0.03 mg/m^3 ; Ceiling 0.1 mg/m^3 .

SECTION 10 — STABILITY AND REACTIVITY

Avoid ammonia, aluminum, potassium, lithium, sodium, bromine, halogens, sulfuric acid, oxidizing agents and nitric acid.
Shelf life : Good when stored properly.

SECTION 11 — TOXICOLOGY

Acute effects : Highly toxic, corrosive.
Chronic effects : Not all health aspects of this material have been fully investigated.
Target organs : Skin, respiratory system, CNS, kidneys and eyes.
Notes : Not all health risks of material have been fully studied.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

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SECTION 13 --- DISPOSAL PRECAUTIONS

Follow all local regulations that may apply.

Returning material to a local Mercury recycler strongly recommended.

SECTION 14 --- TRANSPORT INFORMATION

Shipping name : Mercury

Hazard Class : 8, Corrosive.

UN Number : UN2809

SECTION 15 --- REGULATORY INFORMATION

US Federal : TSCA Listed.

On State Right to know lists in some states.

California – Warning : This product contains Mercury, a chemical known to the State of California to cause developmental reproductive Toxicity.

European / International Regulations

European Labeling in accordance with EC Directives

Hazard Symbols : T

Risk Phrases : R 23 Toxic by inhalation; R 33 Danger of cumulative effects.

SECTION 16 — DISCLAIMER

This Material Safety Data Sheet was composed based on information and tests believed to be reliable. This data sheet is to provide reference and guidance to relevant parties handling or transporting the material. Data included should not be quoted as challenge to any local regulations, shipping and insurance mandates. This data sheet constitutes no Warranty on the part of the producer.

March 01, 2016

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Product Description

Title:	INDUSTRIAL CONTROL PANELS
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Industrial Control Panels For General Use.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Panels (UL-508A) and are identified with the ETL Listed Mark.

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Contact Us

ETL listed products that are in doubt or for products that do not appear in the directory, please request a verification of certification.
Americas+1-888-347-5478 (or +1-847-660-7407)
Email etldirectory@intertek.com

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Product Description

Title:	INDUSTRIAL CONTROL EQUIPMENT
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Industrial Control Panels For General Use. Industrial Control Panels Relating to Hazardous (Classified) Locations, Custom Industrial Control Panels. Power Distribution System, Model Nos. MGL, MPD, MGS series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Equipment (CAN/CSA-C22.2 No. 14) and are identified with the cETL Listed Mark.

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Frequently Asked Questions (FAQ)