
PATLITE offers state-of-the-art equipment for process and industrial automation for over 60 years. Our innovative and robust design, backed by a powerful commitment and years of knowledge, has made PATLITE the world’s best known manufacturer of the visual and audible signaling products. We are also dedicated to the development of products that are safe in harsh and explosive environments to demonstrate our strong commitment to serving the industry with unique and innovative solutions.

In order to identify the diversified needs of our customers, and respond quickly and satisfactorily to those needs, we have implemented the POP (Point of Production) System together with a lean-manufacturing cell-based assembly system (combination, single, and flexible assembly). These new systems allow us to handle any order rapidly from single items to customized item orders.

We've also reduced development time and production cost by having our own in-house machinery to design and manufacture metal moldings for making injection molded parts.

From designing to production, from raw material to the finished product, we also manage our quality control throughout the entire process. This is how we maintain our world class quality reputation for visual, audible signaling and networking information products.

Wide-range of Innovative and World-class Quality Products

How an Explosion Occurs
An explosion can only occur if there is a combination of the following three factors.
- Source of ignition
- Oxygen
- Combustible substances

Combustible substances can exist in the form of gases, vapor, mist or dust. If one component is missing, no explosion will take place.

How to minimize an explosion
The followings are protective measures to minimize the risk of an explosion.
- Limit concentration to a safe level
- Avoid combustible substances
- Increase ventilation
- Prevent the ignition
- Restrict explosive effects to a negligible level

An explosive environment is categorized in three segments, Zone 0, Zone 1 and Zone 2, depending on the hazardous level of gases and vapors

Zone 0
An area where an explosive atmosphere consisting of a mixture of air containing flammable substances in the form of gas, liquid, or vapor continuously present or is frequently present for a longer period of time.

Zone 1
An area where an explosive atmosphere consisting of a mixture of air containing flammable substances in the form of gas, liquid, or vapor can occasionally occur during normal operating conditions.

Zone 2
An area where an explosive atmosphere consisting of a mixture of air containing flammable substances in the form of gas, liquid, or vapor is not likely to occur under normal conditions. However, if it occurs, it will only be for short period of time.

Prerequisites for an explosion
- Oxygen
- Combustible Substances
- Source of Ignition
- Explosion
Various Applications for Explosion Proof and Harsh Environments

Classification of Hazardous Areas

- **Gases/Vapors**
  The tank is filled with flammable liquid. The inside of the tank is defined as Zone 0, because the explosive gas/oxygen mixture is continuously present. Vapor may escape on occasion through the vent on the top of the tank, therefore the area around the vent is categorized as Zone 1. The vapor may also run down the outside of the tank, developing another explosive environment, so the area around the tank is categorized as Zone 2.

- **Dust**
  At a mill with a feed hopper and filter: A product, which causes dust particles mixed with air to cause a flammable mixture, is loaded into a hopper. Inside the feed hopper and filter, it is categorized as Zone 20. While the product is being loaded, the mixture of dust and air causes a potentially explosive compound in the area where the product is loaded into the hopper, so the area outside the hopper is categorized as Zone 21. Around the hopper where a potential flammable atmosphere exists temporarily is categorized as Zone 22.

### Branch | Explosion Hazard
--- | ---
Power Generation Companies | Lump Coal Dust
Woodworking Industry | Saw Dust Fine Wood Chips
Metal-work Operations | Explosive Metal Dust Spark-ignitable Metal Dust
Food/Beverage Industry | Ignitable Grain Dust Explosive Sugar Dust
Refinery Industry | Hydrocarbons close to their flash-points Oil Processing Plants
Waste Disposal Companies | Waste-water Treatment Gases
Landfills/Civil Engineering | Flammable Landfill Gases Uncontrolled Gas Emissions Flammable Gas from poor ventilation sources
Pharmaceutical Industry | Alcohol Solvents Materials explosive when mixed
Gas Suppliers | Natural Gas Leakage Natural Gas Emissions
Paint-spraying Operations | Overspray in Spray-paint Bays Solvent Vapor Emissions
Recycling Operations | Unempted flammable gas/liquid containers Biodegradable Material Emitting Explosive Gases
Chemical Industry | Flammable Gases Flammable Liquids Flammable Solids
Agriculture | Bio-gas Production Plants Bio-gas Located on Farms
**Relationship of IEC, CENELEC, NEC 505 and NEC 500**

**IEC**: International Electrotechnical Commission

**CENELEC**: European Committee for Electrotechnical Standardization

**NEC**: National Electrical Code

<table>
<thead>
<tr>
<th>Standards</th>
<th>Group</th>
<th>Category</th>
<th>Group</th>
<th>Category</th>
<th>Group</th>
<th>Category</th>
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</thead>
<tbody>
<tr>
<td><em>International Standards</em></td>
<td>IEC</td>
<td></td>
<td>IEC</td>
<td></td>
<td>IEC</td>
<td></td>
</tr>
<tr>
<td>IP Protection Rate: Index of Ingress Protection</td>
<td>I</td>
<td></td>
<td>II</td>
<td></td>
<td>G</td>
<td></td>
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</tbody>
</table>

**IP Protection Rate**

**Index of Ingress Protection**

<table>
<thead>
<tr>
<th>Zone 0</th>
<th>Zone 1</th>
<th>Zone 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>Water</td>
<td>Dust</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Group</th>
<th>Measurement</th>
<th>Pressure</th>
<th>Temperature Class (medium temperature)</th>
<th>EPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Protection</td>
<td>Ex d</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagram</td>
<td>Ex e</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Types of Protection**

According to EN Standard Series EN 60079, explosion protected electrical equipment can have various types of protection according to its construction.

The table below for Gas and Dust shows an overview of the standardized protections and describes its basic principal, as well as its practical applications.

Select the suitable PATLITE explosion-safe and intrinsically-safe products according to the specific application type and protection.

### Gas

<table>
<thead>
<tr>
<th>Type of Protection</th>
<th>Marking</th>
<th>Diagram</th>
<th>Definition</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>General requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flameproof Enclosure &quot;d&quot;</td>
<td>Ex d</td>
<td></td>
<td>Equipment used in a potentially explosive atmosphere by sparking or heating are enclosed in a compound to contain and isolate it from the ignition of a given explosive atmosphere.</td>
<td>Suitable to use in installations of explosive atmospheres, Motors, Transformers, Wiring Equipment, Lighting fittings</td>
</tr>
<tr>
<td>Increased Safety &quot;e&quot;</td>
<td>Ex e</td>
<td></td>
<td>Equipment used in a potentially explosive atmosphere contains intrinsically safe electrical components only. The equipment is intrinsically safe when no matter which specific fault conditions are not capable of causing ignition in a given explosive atmosphere.</td>
<td>Suitable to use in installation of explosive atmospheres, Motors, Transformers, Wiring Equipment, Lighting fittings</td>
</tr>
<tr>
<td>Intrinsically Safe &quot;ic&quot;</td>
<td>Ex ic</td>
<td></td>
<td>Equipment used in a potentially explosive atmosphere is intrinsically safe. The equipment is intrinsically safe when no matter which specific fault conditions are not capable of causing ignition in a given explosive atmosphere.</td>
<td>Suitable to use in installation of explosive atmospheres, Motors, Transformers, Wiring Equipment, Lighting fittings</td>
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### Dust

<table>
<thead>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Protection by Enclosures &quot;T&quot;</td>
<td>Ex t</td>
<td></td>
<td>Dust is incapable of igniting the enclosure at all or the dust is in a safe degree, which allows the ignitable mixture to be contained inside. The surface temperature of the enclosure will not cause ignition to the surrounding explosive atmosphere.</td>
<td>Suitable to use in Installation of Electric Equipment, Motors and Generators, Switch Gear, Control Gear</td>
</tr>
<tr>
<td>Pressurized Enclosure &quot;p&quot;</td>
<td>Ex p</td>
<td></td>
<td>The casing of the electrical equipment is pressurized with the gas or gas mixture to make it impossible for any explosive gas or dust to enter inside the casing under certain operating conditions to ignite the potentially explosive environment outside the casing. Ignition cannot be result from flammables or the raised temperature on the surface of the casing.</td>
<td>Suitable to use in installation of Electric Equipment, Motors and Generators, Switch Gear, Control Gear</td>
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<td>Powder Filling &quot;q&quot;</td>
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<td>Type of Protection</td>
<td>Ex nA</td>
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<td>Electrical equipment or parts are immersed in a protective liquid to prevent the ignition of a potentially explosive atmosphere which may be located over or inside the equipment.</td>
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<td>Suitable to use in installation of Electric Equipment, Motors and Generators, Switch Gear, Control Gear</td>
</tr>
</tbody>
</table>
Flameproof signal ST towers can be operated in hazardous areas of Zone 1 or 2 (Group IIA, IIB, IIC, Temperature class T5 and T6) or in Zone 21 or 22, dust group IIIC, T120°C and it consists of a flameproof and dustproof enclosure, “Ex” in which signal modules are installed.

For connecting there are Ex cable glands or line bushings available which are approved for hazardous areas.

ST comply with guideline 2014/34/EU and are designed, manufactured and tested in accordance with EN 60 999 and EN 60079-15, respectively. The type of protection is “Ex” and dust protection as “Dc” in accordance with the certified max. surface / ambient temperature.

Protection Method (ATEX/IEC)

Markings for North America (NEC Standards)

<table>
<thead>
<tr>
<th>Class I, Division 1, Groups A,B,C,D, T6</th>
<th>Gas Area Classification</th>
<th>Gas Group</th>
<th>Temperature Code</th>
<th>Protection Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 0</td>
<td>Class 0</td>
<td>1</td>
<td>G</td>
<td>Gas</td>
</tr>
<tr>
<td>Zone 1</td>
<td>Class 1</td>
<td>2</td>
<td>G</td>
<td>Gas</td>
</tr>
<tr>
<td>Zone 2</td>
<td>Class 2</td>
<td>3</td>
<td>G</td>
<td>Gas</td>
</tr>
</tbody>
</table>

MP3 Field Programmable Annunciator integrated with LED tower

- LKHE-FE-EX
- LKHE-FV-EX
- EHS-EX Series
- EHVE-EX Series

Super Bright LED Work Lights

- LKHE-FE-EX
- LKHE-FV-EX
- EHS-EX Series
- EHVE-EX Series

These products are manufactured by PATLITE, converted and certified to explosion-safe by Atbor, and sold by PATLITE.

Zone 2, Zone 22

Visual/Audible Signaling Products & LED Work Lights

A wide range of visual and audible signaling products, as well as super bright LED light bars, designed for use in hazardous locations that require the ATEX Directive 94/9/EC (CENELEC Standard). These unique and innovative models meet the criteria for Zone 2 (gas) and Zone 22 (dust) atmospheres.
ST-PA-LR6 is covered by the specifications shown in the shaded areas below

### Specifications

<table>
<thead>
<tr>
<th>ST-PA-LR6502WJBRWYGB</th>
<th>ST-PA-LR65M2WJBRWYGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Type</td>
</tr>
<tr>
<td>Red voltage</td>
<td>Red voltage</td>
</tr>
<tr>
<td>24V DC</td>
<td>100-240V AC</td>
</tr>
<tr>
<td>Operating temp.</td>
<td>Operating temp.</td>
</tr>
<tr>
<td>-10°C to +50°C</td>
<td>-20°C to +50°C</td>
</tr>
<tr>
<td>Lighting pattern</td>
<td>Lighting pattern</td>
</tr>
<tr>
<td>Flashing (60±12 flashes per minute) / Continuous lighting</td>
<td>Flashing (60±12 flashes per minute) / Continuous lighting</td>
</tr>
<tr>
<td>Protection Rating</td>
<td>Protection Rating</td>
</tr>
<tr>
<td>IP66</td>
<td>IP66</td>
</tr>
<tr>
<td>Mounting type</td>
<td>Mounting type</td>
</tr>
<tr>
<td>Outdoor &amp; Indoor</td>
<td>Outdoor &amp; Indoor</td>
</tr>
<tr>
<td>Upright &amp; Sideways</td>
<td>Upright &amp; Sideways</td>
</tr>
<tr>
<td>Material</td>
<td>Material</td>
</tr>
<tr>
<td>Upper &amp; Lower case</td>
<td>Upper &amp; Lower case</td>
</tr>
<tr>
<td>Aluminum alloy</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td>Glass case</td>
<td>Glass case</td>
</tr>
<tr>
<td>Borosilicate glass</td>
<td>Borosilicate glass</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Cable</td>
<td>Cable</td>
</tr>
<tr>
<td>10m Cable 10×0.75mm²</td>
<td>10m Cable 12×0.75mm²</td>
</tr>
<tr>
<td>5.7kg</td>
<td>6.7kg</td>
</tr>
</tbody>
</table>

### Certifications

- **Certifications**
  - EPS 16 ATEX 1069
  - IECEx EPS 16.004X
  - TC-RU C-DE.ME92.B.00342

- **Marking**
  - II 2G Ex db IIC T6/T5 0b
  - II 2G Ex db IIC T120°C 0b

- **Standards**
  - EN 60079-0, EN 60079-1, EN 60079-31

- **Guideline**
  - 2014/34/EU

- **Production Certification**
  - EPS 13 ATEX Q 594
  - CE 2004

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### Internal Connection

- **ST-PA-LR6-02**
- **ST-PA-LR6-M2**

### The colors are wired to table

- Red (Light) R : 1
- Orange (Light) O : 2
- Green (Light) G : 3
- Blue (Light) B : 4
- White (Light) W : 5
- Violet Buz : 6
- Gray PWR- : 9
- Black PWR- : 10
- n.c. 11

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### Testing Authority EPS

- **EPS 16 ATEX 1069**
- **IECEx EPS 16.004X**
- **TC-RU C-DE.ME92.B.00342**

- **Marking**
  - II 2G Ex db IIC T6/T5 0b
  - II 2G Ex db IIC T120°C 0b

- **Standards**
  - EN 60079-0, EN 60079-1, EN 60079-31

- **Guideline**
  - 2014/34/EU

- **Production Certification**
  - EPS 13 ATEX Q 594
  - CE 2004
Explosion Proof Signal Tower Ø40mm

**Description**
Explosion-safe Signal Tower featuring an LED light that is versatile and energy-efficient. The vertical and horizontal cut lenses in combination with a double-reflection system enhances the LED light diffusion to create a unique, full and brilliant light. The lens and main body are made of polycarbonate material with characteristics to withstand harsh environments. In addition to its "continuous lighting" condition, the Signal Tower can also be ordered with flashing / non-flashing functions.

**Features**
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE compliance in accordance to ATEX
- A Uniform 360° Light-Emitting Design
- Unique Method of Fully Enclosed Sound Module
- 1 to 5 tiers are available
- 1/2" NPT adapter for pole mount is available
- Available with "flashing/non flashing" and four audible buzzer alarm sounds
- Ingress protection of IP65
- Wall-mount or 1/2" NPT mount

**Specifications**
- **Ingress Protection:** IP65
- **Ambient Temperature:** -20°C to +50°C
- **Material:** PC, PC alloy
- **Lighting Source:** A Uniform 360° Light-Emitting Design
- **Acoustical Source:** Buzzer 85 dB (1m) with four different tones
- **Rated Voltage:** 24V DC
- **Module Colors Available:** Red, Amber, Green, Blue, Clear/white
- **Cable:** Factory sealed cable, Ø 8 mm, length 3 meter
- **LED Current Ratings:**
  - Signal Line Current: approx. 40 mA
  - Buzzer Current: approx. 250 mA

**Dimensions**
- **Height:**
  - 1 Tier: 173.5 mm
  - 2 Tiers: 213.5 mm
  - 3 Tiers: 253.5 mm
  - 4 Tiers: 293.5 mm
  - 5 Tiers: 333.5 mm

**How to Order**
- **LED Module Color**
  - R: Red
  - A: Amber
  - G: Green
  - Y: Yellow
  - W: White
  - B: Blue
  - C: Clear/White
- **Rated Voltage:** 24V DC
- **Bracket Code**
  - NJ: NPT Adapter
  - WJ: Side mount

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Explosion Proof Signal Tower Ø60mm

**Description**
Explosion-safe Signal Tower featuring an LED light that is versatile and energy-efficient. The vertical and horizontal cut lenses in combination with a double-reflection system enhances the LED light diffusion to create a unique, full and brilliant light. The lenses and main body are made of strong synthetic materials with characteristics to withstand harsh environments. In addition to its "continuous lighting" condition, the Signal Tower can also be ordered with flashing / non-flashing functions

**Features**
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE compliance in accordance to ATEX
- A Uniform 360° Light-Emitting Design
- Unique Method of Fully Enclosed Sound Module
- 1 to 5 tiers are available
- 3/4" NPT adapter for pole mount is available
- Available with "flashing/non flashing" and four audible buzzer alarm sounds
- Ingress protection of IP65
- Wall mount or 3/4" NPT mount

**Specifications**
- **Ingress Protection:** IP65
- **Ambient Temperature:** -20°C to +50°C
- **Material:** PC, PC alloy
- **Lighting Source:** A Uniform 360° Light-Emitting Design
- **Acoustical Source:** Buzzer 88 dB (1m) with four different tones
- **Rated Voltage:** 24V DC
- **Module Colors Available:** Red, Amber, Green, Blue, Clear/white
- **Cable:** Factory sealed cable, Ø 8 mm, length 3 meter
- **LED Current Ratings:**
  - Signal Line Current: approx. 40 mA
  - Buzzer Current: approx. 250 mA

**Dimensions**
- **Height:**
  - 1 Tier: 173.5 mm
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  - 4 Tiers: 293.5 mm
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**How to Order**
- **LED Module Color**
  - R: Red
  - A: Amber
  - G: Green
  - Y: Yellow
  - W: White
  - B: Blue
  - C: Clear/White
- **Rated Voltage:** 24V DC
- **Bracket Code**
  - NJ: NPT Adapter
  - WJ: Side mount
**105dB(A) MP3 Field Programmable Annunciator, Melody Horn**

- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE compliance in accordance to ATEX
- Super bright LED colors correspond to different voice, sounds, chimes and melodies.
- Voice alert messages of up to 63 seconds (64kbps) with 5 channels can be played back.
- 32 combinations of sounds, chimes and melodies are pre-recorded.
- 8 sounds can be played back by a bit input, and 32 sounds by binary input.
- Volume is adjustable from 0 to 105dB at 1 meter.
- Field programmable with MP3 by SD card for the model LKEH-FV-EX.
- Supports volume is adjustable from 0 to 105dB (at 1m).
- Field programmable MP3 function with a maximum of 220 sec. of recording time (64kbps) and an adjustable volume up to 105dB (at 1m).
- EHV-EX offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (64kbps) and an adjustable volume up to 105dB (at 1m).

### Specifications

- **Model**: LKEH-FV-EX, LKEH-FW-EX
- **Specifications**: Operating temperature range -10°C to +50°C, Humidity 80% or less, Rating Voltage 24V DC, Cable: 10.8V to 26.4V DC, Cable: 26.4V DC

### How to Order

- **Model**: LKEH-302FV-RYG-EX
- **Type**:
  - 1 Tier: 270
  - 2 Tiers: 350
  - 3 Tiers: 370
  - 4 Tiers: 450
- **Color**:
  - Type-A: Clear/White
  - Type-B: Blue
  - Type-C: Green
- **Mounting**: Wall mount

### Wiring Diagram

- **Contact Relay Wiring**
- **Non-voltage (NPN) Wiring**
- **PNP Wiring**

**Note 1**: The sound pressure level is based on measurements under controlled conditions (voice synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.

**Note 2**: Even when starting two or more units simultaneously, a lag will occur during message playback.
Water/Oil Resistant LED Work Light

- 820 lx brightness, equivalent to a 40 watt incandescent bulb
- 6,000 hours, or about 7 years of long service life (*1)
- IP66 (Protection against dust ingress) and IP67 (Protection against water ingress)
- 24V DC (Polarised)
- IEC 60529:2001 (in accordance with G3X)
- CE marked according to EN 60079-0, EN 60079-15, EN 60079-31
- 820lx

High power LED with 820 lx provides sufficient illumination with only a 174mA current draw. Color temperature of 6,500K is suitable for detailed and fine work, while providing photobiological safety.

Natural light distribution when illuminating a wider work area with an equivalent to a 40W incandescent bulb with 550 lumens. Suitable for Zone 2 and Zone 22.}

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CLN-24-CD-PT-EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Intensity (lx at 1m)</td>
<td>Typ. 820lx</td>
</tr>
<tr>
<td>Color Temperature (K)</td>
<td>6500K</td>
</tr>
<tr>
<td>Rated Voltage ± 10%</td>
<td>24V DC</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>500VAC for 1 minute (Between terminals and chassis)</td>
</tr>
<tr>
<td>Vibrational Resistance</td>
<td>19.6m/s²</td>
</tr>
<tr>
<td>Dimensions (Thickness)</td>
<td>X (Width) (Height)</td>
</tr>
<tr>
<td>22.2mm</td>
<td>85mm</td>
</tr>
</tbody>
</table>

Stainless steel flexible angle bracket allows a versatile installation, instantly enabling direct illumination to the work area.

Model CLK-24-EX

- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- IP66 (Protection against dust ingress) and IP67 (Protection against water ingress)
- 24V DC
- 520mA (350mm long)
- LED color: CD 6,500K, CN 5,000K
- IP66 (IP67 for 350mm long), IP69K rated
- -40°C ~ +60°C
- Tempered glass lens
- Aluminium housing
- Stainless steel housing is available for 350mm long model

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CLK-24-EX</th>
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<tbody>
<tr>
<td>Luminous Intensity at Optical Center (lx at 1m)</td>
<td>Typ. 1200 (3S/3C), 2100 (6S/6C)</td>
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<tr>
<td>Color Temperature (K)</td>
<td>6500K</td>
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<tr>
<td>Rated Voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>IP66/IP67/IP69K (DIN 40050 PART9)</td>
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<tr>
<td>Dimensions (Thickness)</td>
<td>X (Width) (Height)</td>
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<tr>
<td>300mm</td>
<td>85mm</td>
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</tbody>
</table>

How to Order

- Model: CLK-24-EX 24V DC
- Color: CD (Daylight), CN (Neutral White)
- Operating Voltage Range: 24V DC ±10%
- Operating Temperature Range: -40°C ~ +60°C
- Radiant Intensity: High intensity LED x 18 elements (K100 type)
- Mounting: Wall Mount, Ceiling Mount, Floor Mount
- Cable Specifications: 2-M5, Pitch:26 (S: Side-exiting Cable, C: M12 Connector)
- Mass: 140g (25 mm)
Water Resistant LED Work Light

- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE compliance in accordance to ATEX
- 100mm(140lx), 200mm(270lx), 300mm(400lx), 600mm(650lx), 900mm(810lx), 24V DC (polarized)
- Cable Length: 3m
- IP66, IP67 and IP69K rated
- -40°C ~ +60°C
- Polycarbonate Mounting brackets available

CLA-EX Explosion Proof

MEMO

Dimensions

How to Order

Options

Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>Luminous Color</th>
<th>Length (mm)</th>
<th>Rated Voltage</th>
<th>Operating Voltage Range</th>
<th>Rated Current Consumption (lx/90cm)</th>
<th>Mounting Direction</th>
<th>Vibration Resistance</th>
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</thead>
<tbody>
<tr>
<td>CLA1S-24-CD-30-EX</td>
<td>Daylight</td>
<td>100mm</td>
<td>24V DC</td>
<td>140</td>
<td>26mA</td>
<td>Any Direction</td>
<td>19.6m/s</td>
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<tr>
<td>CLA2S-24-CD-30-EX</td>
<td>Daylight</td>
<td>200mm</td>
<td>24V DC</td>
<td>270</td>
<td>208mA</td>
<td>Indoor Use</td>
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<td>CLA3S-24-CD-30-EX</td>
<td>Daylight</td>
<td>300mm</td>
<td>24V DC</td>
<td>400</td>
<td>240mA</td>
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<td>180 m/s</td>
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<td>CLA6S-24-CD-30-EX</td>
<td>Daylight</td>
<td>600mm</td>
<td>24V DC</td>
<td>650</td>
<td>480mA</td>
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<td>340 m/s</td>
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<tr>
<td>CLA9S-24-CD-30-EX</td>
<td>Daylight</td>
<td>900mm</td>
<td>24V DC</td>
<td>810</td>
<td>720mA</td>
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