

## Wolf® LINKEX™ LED ATEX Emergency Temporary Luminaire



The Wolf LinkEx LED ATEX Emergency Lighting Luminaire is a **critical safety solution** designed to ensure the safe evacuation of personnel or the continuation of work in the event of a power failure in hazardous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, this luminaire combines all the advantages of the standard LinkEx series with an integrated emergency battery backup.

Thanks to the "LinkEx" feature, multiple units can be daisy-chained together. In the event of a power loss, the unit automatically switches to battery mode, providing up to 3 hours of continuous light. This is vital in completely dark confined spaces such as tanks, ship holds, and underground tunnels. With its high-impact resistance and IP67 rating, it is optimized for the most demanding industrial sites.

### Usage Areas

- **Oil & Gas:** Planned maintenance or emergency lighting in refineries and petrochemical plants.
- **Marine:** Safe working and evacuation routes in ship tanks and cargo holds.
- **Chemical Industry:** Temporary lighting of reactors and hazardous material storage areas.
- **Tunnel & Infrastructure:** Redundant lighting systems against power failures in underground constructions.

LX-400EHA110/T4/SY5, LX-400EHA230/T4/SY5, LX-400EH/T4/SY10/ATX110, LX-400EH/T4/SY10/ATX230, LX-400ELA24/T4/SY5, LX-400EL/T4/SY10/ATX24 ZONES: 1, 2, 21 AND 22

- The LinkEx™ LED Temporary Emergency Light has all the features of the LX-400 series, including the unique SOVI™ system for safe voltage. It improves safety by automatically switching to battery power if the main power supply fails. It is also available in an Exit sign version.
- Complies with EN IEC 60079-0, EN IEC 60079-7, EN IEC 60079-18 ve 60079-31 standards.
- Non-Linkable:

II 2 GD Ex eb mb IIC T4 Gb

Ex tb IIIC T135°C Db

- Linkable:

II 2 GD Ex eb mb IIC T4 Gb

Ex tb IIIC T135°C Db

- Switch version:

II 2GD Ex eb ib mb IIC T4 Gb

Ex ib tb IIIC T135°C Gb

- CE Marked & IECEx Certified: Safe for use in Zones 1 and 2, where explosive gas and dust are present, with a T4 temperature class allowed.
- High-Quality Lighting: Uses two high-powered LED arrays for bright white light, reliable performance, and low maintenance.
- Unidirectional Lighting: The LED arrays are side-by-side to provide effective one-directional lighting in a '180°' format.
- Durable Design: The light is lightweight, compact, and tough with impact-resistant end caps and tube (anti-static and light-diffusing coatings).
- Shock Protection: Features high-visibility, chemical-resistant, shock-absorbing bump rings to protect against drop damage.
- ATEX Socket: Can be connected in a chain to other lights, allowing for quick and safe connections while powered on.
- Flexible Voltage Options: Available in HV (90-264V AC/DC) and LV (18-55V AC/DC), with the LV version ideal for confined spaces, reducing electric shock risk.
- Wide Voltage Range: The broad input voltage range supports long cable runs and multiple lights, even with voltage drops.
- SOVI™ System: The Safe Optimal Voltage Indicator shows if the voltage is too high or low by making the light pulse dimmer or brighter, ensuring proper voltage levels.

#### Technical Specifications:

- **Emergency Function:** If the power goes out, the light automatically switches to battery power.
- **Battery Duration:** 3 hours of battery life at 50% light output for emergency evacuation.
- **Light Output:** 3,000 lumens of light at the source.

- **Voltage Options:** Available in HV (90-264V AC) and LV (18-55V AC/DC).
- **Temperature Range:** T4 temperature class; works in temperatures from -20°C to +55°C.
- **Safe to 0 Volts:** Certified to work even down to 0 volts.
- **Anti-Static Protection:** Hazardous area certified anti-static protection films and covers available.
- **Plugs:** Can be supplied with ATX, CEAG, Marechal, or Stahl Ex plugs.
- **LED Light Source:** High power, low maintenance LED light source, designed to last a lifetime.
- **Durable Design:** Compact and robust construction.
- **Mounting Accessories:** A wide range of fixing and mounting options available.
- **Versions:** Available in Switch and Exit versions.
- **Hanging Straps:** Supplied with hanging straps (model LX-654).

### Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

### Standards



Ex-Proof (ATEX)



IECEx



CE 0598

## TECHNICAL DETAILS

| PRODUCT REFERENCE   | LX-400E (Emergency)                           |
|---------------------|-----------------------------------------------|
| PRODUCT DESCRIPTION | LinkEx LED ATEX Emergency Temporary Luminaire |

|                                          |      |                                                                                                                                                                                                                                        |
|------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency Low Voltage (LV) 18-55 V AC/DC |      | Emergency High Voltage (HV) 90-264V AC                                                                                                                                                                                                 |
| Code                                     |      | Non-Linkable:<br>II 2 GD    Ex eb mb IIC T4 Gb<br>Ex tb IIIC T135°C Db<br><br>Linkable*:<br>II 2 GD    Ex eb mb IIC T4 Gb<br>Ex tb IIIC T135°C Db<br><br>Switch version:<br>II 2GD    Ex eb ib mb IIC T4 Gb<br>Ex ib tb IIIC T135°C Gb |
| TYPE OF PROTECTION                       |      | "eb" increased safety, "mb" encapsulation, "tb" enclosure, "ib" intrinsic safety                                                                                                                                                       |
| AREA OF CLASSIFICATION (GAS)             |      | Zones 1 & 2, Gas Groups IIA, IIB, IIC                                                                                                                                                                                                  |
| TEMPERATURE CLASS                        |      | T4                                                                                                                                                                                                                                     |
| AREA OF CLASSIFICATION (DUST)            |      | Zones 21 & 22                                                                                                                                                                                                                          |
| MAX SURFACE TEMP (DUST)                  |      | 135°C                                                                                                                                                                                                                                  |
| AMBIENT TEMPERATURE                      |      | -20°C to +55°C (+45°C with LX-621 protective cover fitted)                                                                                                                                                                             |
| CERTIFICATE                              |      | CML 18ATEX3371X<br>IECEX CML 18.0197X<br>CML 21UKEX3644X                                                                                                                                                                               |
| ENCLOSURE AND LENS                       |      | Polycarbonate with Anti-static Coating                                                                                                                                                                                                 |
| BEAM TYPE                                |      | Wide Angle, Diffused Area Light 180°                                                                                                                                                                                                   |
| LIGHT SOURCE                             | TYPE | LED                                                                                                                                                                                                                                    |

|                              |                                                                   |            |
|------------------------------|-------------------------------------------------------------------|------------|
| <b>LIFE</b>                  | Over 60,000 hrs                                                   |            |
| <b>POWER</b>                 | 24VAC ≈27W (42VA) 48VAC ≈27W (51VA) HV ≈ 26W                      |            |
| <b>OUTPUT</b>                | Up to 3,000 lumens, (output on emergency battery is 1,500 lumens) |            |
| <b>INPUT VOLTAGE</b>         | 18-55V AC/DC                                                      | 90-264V AC |
| <b>POWER</b>                 | 26VA ≈25W                                                         | ≈26W       |
| <b>WEIGHT (NON-LINKABLE)</b> | 3.2kg without cable                                               |            |
| <b>Length (Non-Linkable)</b> | 0.7m                                                              |            |
| <b>Ingress Protection</b>    | Non-Linkable (No Socket) IP67 / Linkable (Socket Fitted) IP66     |            |
| <b>INCLUDED</b>              | Hanging straps (LX-654)                                           |            |

\* Linkable products with CEAG sockets are restricted to IP54 and are not approved for use in dust environment

## What is ATEX Lighting?

[What is ATEX and what does exproof mean?](#) The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

## What is ATEX Zone Classification?

[ATEX Zone coding](#) is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

## What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series).

However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.



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