Wolf® LinkEx™ LED Temporary Luminaire

Article Number: 08010454 08020525 08020521 08020528

Wolf LinkEx LED Temporary Ceiling Luminaires are **next-generation**, modular, high-performance ex-proof fittings designed for wide-area illumination and high-ceiling applications in hazardous locations. Offered by **IST Safety Ltd, the official distributor of Wolf**, this series replaces traditional fluorescent lighting, providing significantly lower energy consumption and superior light quality.

The standout "LinkEx" feature allows for the interconnection of up to 10 luminaires (daisy-chain), minimizing installation time and cabling complexity. With a light output exceeding 4000 lumens, a 360-degree beam angle, and an IP67 ingress protection rating, it creates a safe working environment in the most demanding industrial facilities and large-scale maintenance operations.

Usage Areas

- **Oil & Gas:** Maintenance works in refinery units, large storage tanks, and offshore platforms.
- **Aviation & Defense:** Aircraft hangars, refueling areas, and paint booths.
- **Heavy Industry:** Chemical plants, large-scale manufacturing areas, and power plants.
- **Shipbuilding:** Vessel holds, engine rooms, and extensive blasting/painting operations.

LX-400SH/SY10/ATX230, LX-400SHA/230/SY5, LX-400SH/SY10/ATX110, LX-400SHA110/SY5, LX-400SL/SY10/ATX24, LX-400SLA24/SY5

- The LinkEx™ LED Temporary Luminaire is a high-powered LED leadlamp used for short-term lighting and maintenance tasks. It is CE marked according to the ATEX directive and IECEx certified, ensuring safe use in Zones 1 and 2, where explosive gas and dust atmospheres may exist, and a T4 temperature class is allowed.
- Complies with EN IEC 60079-0,EN IEC 60079-7,EN IEC 60079-18,EN 60079-28 and 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

- Brilliant white light output
- Highly reliable
- Low maintenance with a "fitted for life" light source
- Power-saving, allowing longer cable runs and more lights to be powered from a single supply
- Available in 180° format (side-by-side arrays) for unidirectional illumination
- Available in 360° format (back-to-back arrays) for omni-directional illumination (special order)
- Lightweight, compact, and highly robust construction
- Impact-resistant end caps and tube, with anti-static and light diffusing coatings
- Chemical-resistant high visibility shock-absorbing bump rings to minimize drop damage
- ATEX sockets for easy and safe connection of multiple lamps in a chain, even in Ex Atmospheres
- Two voltage input ranges
  High voltage (85-264V AC) for general applications
  Low voltage (18-50V AC/DC) for confined space applications (like metal tanks) with higher electric shock risks
- Wide input voltage ranges for usability and safety in long cable runs or multiple lights
- SOVI™ (Safe Optimal Voltage Indicator) system:
- Pulses dimmer if voltage is above the limit
- Pulses brighter if voltage is below the limit

Technical Specifications:

- Up to 4,000 lumens light output at source
- High light output at the widest part of the beam
- Features the unique SOVI (Safe Optimal Voltage Indicator)
- The beam will pulse to indicate if the lamp is not at optimum performance voltage
- Safe to 0 volts supply
- T4 temperature class
- High power, low maintenance LED light source 'Fitted for Life'
- High and low input voltage versions available
- Lightweight

- Available with ATEX plugs and sockets to link in series/chain
- Compact and robust design
- Low power consumption
- Certified anti-static protection film and bags available
- Wide range of fixing and mounting accessories available

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

CE Mark

Ex-Proof (ATEX)

TECHNICAL DETAILS

PRODUCT REFERENCE	**LX-400**
PRODUCT DESCRIPTION	**LinkEx LED ATEX Temporary Luminaire**
	T4 Low (LV) & High (HV) Voltage
Code	**NON-LINKABLE** **II 2 GD Ex e mb op is IIC T4 Gb (-20°C to +55°C)** **Ex t IIIC T135°C Db IP67** **LINKABLE** **II 2 GD Ex e mb opis IIC T4 Gb (-20°C to +55°C)** **Ex t IIIC T135°C Db IP66***
TYPE OF PROTECTION	**"e" increased safety, "mb" encapsulation, "d" flameproof**

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-321 Protective Bag Fitted)
CERTIFICATE		CML 18ATEX3371X IECEx CML 18.0197X
ENCLOSURE AND LENS		Polycarbonate with Anti-static Coating
BEAM TYPE		Wide Angle, Diffused Area Light (180° or 360°)
LIGHT SOURCE	**TYPE**	LED
	LIFE	Over 60,000 hrs
	POWER	24VAC ≈27W (42VA) 48VAC ≈27W (51VA) HV ≈ 26W
	OUTPUT	4,000 lm (at source)
INPUT VOLTAGE		LV 18-50V AC/DC HV 90-264V AC
WEIGHT (NON-LINKABLE)		3.0kg without cable
Length (Non-LInkable)		0.7m
Ingress ProtectIon		Non-Linkable (No Socket) IP67 / Linkable (Socket Fitted) IP66*

INCLUDED	Supplied with lens protecting film (LX-545), protection cover kit (LX-621) and hanging straps (LX-654)

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.