Wolf® LMX Linear DLO Ex-Proof



The Wolf LMX2S-L and LMX4S-L DLO series are **next-generation**, high-performance linear LED ATEX luminaires designed to meet linear lighting requirements in hazardous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, these linear lighting solutions replace traditional fluorescent lamps, providing a significantly longer lifespan, superior energy efficiency, and enhanced durability.

Certified for Zone 1/21, these luminaires feature a low-profile design optimized specifically for scaffolding, walkways, and confined spaces. Utilizing advanced LED technology, they deliver uniform light distribution while ensuring reliability in the toughest industrial environments through their impact-resistant polycarbonate housing and IP67 ingress protection. Their lightweight structure and versatile mounting options provide significant operational ease for both temporary and permanent installations.

Usage Areas

- **Scaffolding and Walkways:** Providing safe working and transit line lighting on scaffolding systems in shipyards and refineries.
- **Oil & Gas:** Linear line lighting in refinery units, offshore platforms, and storage facilities.
- **Marine:** Illumination of confined spaces, engine rooms, and cargo holds during shipbuilding processes.
- **Chemical Industry:** Chemical processing lines where corrosive atmospheres and flammable vapors are present.

Certification & Compliance

- The LMX Linear DLO range is ATEX, IECEx, and UKEX certified for safe use in Zones 1 and 21 hazardous areas, available in 2 feet and 4 feet sizes
- Its unique, patented technology allows light fittings to be placed close to workers and within their eyeline.
- It provides very high light uniformity with minimal glare.
- Complies with EN IEC 60079-0, EN 60079-18, EN 60079-7 and 60079-31

Standards



Ex-Proof (ATEX)

TECHNICAL DETAILS

PRODUCT REFERENCE	LMX2S-L-50	LMX2S-L-60	LMX4S-L-50	LMX4S-L-60
CODE	II 2 G Ex eb mb IIC T4 Gb Ex tb IIIC T T80°C..90°C Db (dependent on model type)			
CERTIFICATE	ExVeritas 19 ATEX 0433X IECEx EXV 19.0001X ExVeritas 21 UKEX 0946X			
INPUT VOLTAGE RANGE	88 - 140V AC; 180 - 277 V AC			
INPUT POWER(230V)(W)	24		48	
FREQUENCY	50 - 60 Hz			
POWER FACTOR	>0.90			
ENCLOSURE SIZE	2ft		4ft	
Lumen Output (Max)*	1,988		3,976	
LED Module & Quantity	1x DLO		2x DLO	
Beam Angles	90° (110° upon request)			
Ingress Protection	IP66/IP67**			
Gas Temp. Class	T4			
Weight	5kg		9kg	
Dust Surface Temp.	T80 °C	T90 °C	T80 °C	T90 °C
Lower Temp. Limit	-50 °C			
Upper Temp. Limit	50 °C	60 °C	50 °C	60 °C
Colour Temperature	5000K			

- Lumen output figures stated are for 230V AC
- IP rating dependent upon the gland fitted

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.