Wolf® LMX Linear FFA Ex-Proof



The Wolf LMX Linear FFA (Flexible Field Assembly) is a **next-generation** ex-proof luminaire designed to make linear lighting installations in hazardous areas significantly faster and more versatile. Offered by **IST Safety Ltd, the official distributor of Wolf**, this series features the "Flexible Field Assembly" (FFA) capability, allowing it to easily adapt to various cabling and mounting requirements directly on-site.

Certified for Zone 1/21, this linear LED fitting provides superior energy savings and a longer lifespan compared to traditional fluorescent lamps. With its impact-resistant polycarbonate housing, IP67 ingress protection, and uniform light distribution, it ensures safe illumination in the harshest environments, from refineries to shipyards. Its modular structure shortens maintenance processes while maximizing operational efficiency.

Usage areas

- **Maintenance and Repair:** Temporary or permanent linear line lighting in refineries and petrochemical plants.
- **Scaffolding Systems:** Quick installation on scaffolding during shipbuilding and blasting/painting processes in shipyards.
- **Walkways and Corridors:** Illumination of narrow paths and tunnels in industrial facilities where flammable vapors may be present.
- **Offshore Platforms:** General area lighting resistant to corrosive marine environments and explosive risks.

Certification & Compliance

- The LMX Linear FFA (Forward Facing Array) range is certified with ATEX, IECEx, and UKEX for safe use in Zones 1 and 21 potentially explosive atmospheres.
- All products have an IP66/67 rating, making them tough, reliable, and suitable for both indoor and outdoor use.
- Ideal for new installations or replacing old fluorescent or LED lights.
- Provides improved performance and lower energy consumption.

Standards

Ex-Proof (ATEX)

IECEx

TECHNICAL DETAILS

PRODUCT REFERENCE	LMX2S-F-50	LMX2S-F-60	LMX4S-F-50	LMX4S-F-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)	23		46	
FREQUENCY	50 - 60 Hz			
POWER FACTOR	>0.90			
ENCLOSURE SIZE	2ft		4ft	
Lumen Output (Max)*	2,629		5,258	
LED Module & Quantity	1x FFA		2x FFA	
Beam Angles	115°			
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.