

## Wolf® LMXE Emergency Linear FFA

The Wolf LMXE FFA is a **next-generation** ex-proof luminaire that combines linear general lighting and emergency backup requirements in a single housing for hazardous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, this product features "Flexible Field Assembly" (FFA) technology, providing exceptional cabling and placement versatility during on-site installation.

In the event of a power failure, the LMXE FFA automatically switches to battery mode to deliver up to 3 hours of continuous illumination, ensuring peak safety in Zone 1/21 explosive gas and dust atmospheres. With its highly impact-resistant polycarbonate housing, IP67 ingress protection rating, and uniform light distribution, it facilitates the safe evacuation of personnel in the harshest environments, from refineries to chemical processing plants.



### Usage Areas

- **Emergency Evacuation Routes:** Illumination of safe exit paths in refineries and petrochemical plants during power outages.
- **Temporary and Permanent Scaffolding:** Quick and flexible mounting advantages on scaffolding systems in shipyards via FFA capability.
- **Industrial Facilities:** Chemical storage areas, power plants, and confined spaces where flammable vapors are present.
- **Maintenance and Repair:** Creating safe and redundant lighting networks throughout facilities during shutdown periods.

### Certification & Compliance

- The LMXE FFA (Forward Facing Array) Intelligent Emergency range is certified with ATEX, IECEx, and UKEX for safe use in Zone 1, 2, and 21, 22 potentially explosive atmospheres.
- It has all the features of the LMX FFA Linear standard luminaire.

- It includes a battery-powered emergency back-up supply in case of a power failure in the hazardous area.
- Complies with EN IEC 60079-0, EN 60079-18, EN 60079-7 and 60079-31 standards
- EX II 2 G Ex eb mb IIC T4 Gb  
II 2 D Ex tb IIIC T80°C...T90°C Db (dependent on model type)  
Ta -50°C to +60°C (dependent on model type)

## Technical Specifications

- The LMXE FFA (Forward Facing Array) Emergency has all the features and benefits of the standard LMX linear range.
- It includes emergency mode durations, powered by a NiMH battery, selectable by the installer on-site.
- Available emergency mode options:  
4 hours at 25% output (LMX2E models); 4 hours at 12.5% output (LMX4E models)  
2 hours at 50% output (LMX2E models); 2 hours at 25% output (LMX4E models)  
1 hour at 100% output (LMX2E models); 1 hour at 50% output (LMX4E models)
- LMX4E FFA Emergency models have one "emergency" and one "standard module."
- The Intelligent Emergency circuit automatically performs periodic self-tests to monitor the system and battery condition.
- During the self-test, the LED output from the Emergency Linear stays at full power to avoid disturbing nearby activities.
- A 3-color LED indicator shows the circuit status:  
Green: Everything is functioning correctly  
Amber: The unit is performing a self-test  
Red: A fault or the battery hasn't reached full capacity

## 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

## TECHNICAL DETAILS

PRODUCT REFERENCE	LMX2E-F-60	LMX4E-F-60
CODE	II 2 G Ex eb mb IIC T4 Gb II 2 D Ex tb IIIC T90°C Db	
CERTIFICATE	ExVeritas 19 ATEX 0433X IECEX EXV 19.0001X ExVeritas 21 UKEX 0946X	
INPUT VOLTAGE RANGE	100-140V AC; 200-277V AC	
INPUT POWER(230V)	31W	52W
FREQUENCY	50 - 60 Hz	
POWER FACTOR	>0.90	
ENCLOSURE SIZE	2ft	4ft
Lumen Output (Max)*	2,629	5,258
LED Module & Quantity	1 x Emergency FFA	1x Emergency FFA and 1x FFA
Beam Angles	115°	115°
Ingress Protection	IP66/IP67 (depending on gland fitted)	

<b>Gas Temp. Class</b>	T4	
<b>Weight</b>	6.5kg	10.5kg
<b>Dust Surface Temp.</b>	T90°C	
<b>Lower Temp. Limit</b>	-40 °C	
<b>Upper Temp. Limit</b>	60 °C	
<b>Colour Temperature</b>	5000K	

\*Lumen output figures stated are for 230V AC

## 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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