

Wolf® LINKEX™ WF-300XL Ex-Proof LED FLOODLITE

Article Number: 08020520



The Wolf WF-300XL LinkEx LED Floodlight is a **next-generation**, modular ex-proof floodlight engineered to provide maximum lighting efficiency in hazardous environments. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this model is specifically optimized for large-scale industrial operations where wide-area illumination is required. With a powerful output of over 6,300 lumens, it serves as a highly efficient replacement for traditional high-pressure sodium or halogen lamps while minimizing energy consumption.

A standout feature is the "LinkEx" (daisy-chain) capability, allowing multiple units to be interconnected to create an extensive lighting network from a single power source. Certified for Zone 1/21, the WF-300XL is available in both Low Voltage (LV) and High Voltage (HV) options. Its impact-resistant polycarbonate lens, IP66/67 ingress protection, and compact design ensure superior performance in the toughest environments, from tank cleaning to shipyard operations.

Usage Areas

- **Oil & Gas:** Large-scale refinery shutdowns, wide-area field lighting, and internal tank inspections.
- **Marine & Shipyards:** Shipbuilding processes, dry dock operations, and illumination of large cargo holds.
- **Petrochemical:** General site lighting for chemical processing plants and hazardous material storage areas.
- **Infrastructure & Tunneling:** Underground tunnel constructions and large-scale excavation sites with explosive atmosphere risks.

The LinkEx™ WF-300®XL LED Floodlight is a high-performance, durable, and portable ATEX LED floodlight designed for use in potentially explosive environments. It features an innovative patented light engine, providing excellent white light output, and complies with the latest ATEX and IECEx standards, including OP IS (optical intrinsic safety).

Certification

- The LinkEx™ WF-300@XL LED Floodlight is a high-performance, durable, and portable ATEX LED floodlight.
- Designed for use in potentially explosive atmospheres.
- Features an innovative and patented light engine for optimal performance.
- Provides an outstanding level of white light output.
- Fully compliant with the latest ATEX and IECEx standards.
- Includes OP IS (optical intrinsic safety) certification for enhanced safety.
- IP66/67 rated for dust and water resistance.
- Complies with the EN60079-0, EN60079-7, EN60079-18 and EN60079-31 standards.
- Gas Groups IIA, IIB and IIC
Ex eb mb IIC T4 Gb
Ex tb IIIC T118°C Db
Ta= -40°C to +55°C or
Ta= -40°C to +40°C when the optional protective cover is fitted.

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

- High-reliability LEDs designed and tested to last 100,000+ hours.

- Patented light engine for optimal performance.
- Efficient thermal management ensures LED lifespan through built-in fins and electronic control.
- Dual independent LED system for failsafe reliability, ensuring continuous light.
- Safe to 0 volts for both LV and HV units.
- LINKEx capable – HV units can be fitted with linkable sockets to connect multiple lights from a single power source.
- Durable construction with marine-grade aluminum, scratch, impact, and chemical-resistant glass lens, and 316 stainless steel frame.
- Easy to clean and resistant to dirt, designed for high-risk environments.
- Complements the LinkEx™ LED Temporary Luminaire area lighting system.

LINKEX™ WF-300XL LED FLOODLITE		
Product Reference	WF-300XL	
Product Description	LinkEx™ LED Floodlite	
Code	II 2 G D Ex eb mb IIC T4 Gb Ex tb IIIC T118°C Db	
Type of Protection	'eb' increased safety 'mb' encapsulation 'tb' enclosure protection	
Area of Classification	Zones 1 and 2, Gas Groups IIA, IIB and IIC	
Temp. Classification	T4	
Area of Classification (Dust)	Zones 21 and 22, Dust Groups IIIA, IIIB and IIIC	
Max Surface Temp (Dust)	T118°C	
Ambient Temperature	-40°C to +55°C	
Certificate	CML 18ATEX3372X IECEX CML 18.0198X	
Voltage	18-50V AC / DC	90-264V AC / DC
Power	55w	62w

Enclosure		Marine grade aluminium alloy, epoxy powder coated
Lens		Toughened Glass
Beam Type		Medium Flood
Light Source	Type	36 x White High Power LEDs
	Life	100,000+ hrs
	Output at LED Source (Lumens)	Up to 9,576
Weight		7.3kg (excluding cable)
Ingress Protection		IP66/67
Accessories		Supplied with bridle and lamp stand

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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