Wolf® LinkEx™ Tank Lighting Kit



IMPA Codes
33 19 16 - LL-155, 33 19 17 - LL-255, 33 19 18 - LL-125, 33 19 19 - LL-225

The Wolf LinkEx LED Tank Lighting Unit is a **next-generation** modular ex-proof lighting system designed for tank cleaning, maintenance works, and confined space operations. Offered by **IST Safety Ltd, the official distributor of Wolf**, this system combines high illumination power with the most stringent electrical safety standards.

The primary advantage of the system is its "LinkEx" capability, which allows multiple units to be daisy-chained together to illuminate large areas from a single power source. To enhance safety, especially in wet and metallic conductive environments, **24V / 48V Extra Low Voltage (ELV)** options are available. With its impact-resistant polycarbonate lens and compact design, it is a professional solution for demanding industrial sites.

Usage Areas

- **Oil & Gas:** Internal cleaning and inspection of crude oil and product tanks in refineries.
- **Marine:** Ship ballast tanks, cargo holds, and fuel tank operations.
- **Chemical Industry:** Maintenance of reactors, silos, and chemical storage units.
- **Water & Waste Management:** Confined space works in sewer lines, water reservoirs, and treatment plants.

- The LinkEx™ Tank Lighting Kits are ATEX certified and offer low voltage temporary lighting for hazardous areas with explosive gases, vapours, mists, or dusts in confined spaces. They are suitable for Zones 1 and 2 (gas) and Zones 21 and 22 (dust).
- Flexible setup for high-quality task and ambient lighting in tanks and vessels.
- Provides high safety levels through simple configuration, including:

LinkEx™ LED Temporary Luminaires

LinkEx™ LED Temporary Emergency Luminaires

LinkEx™ WF-300XL LED Floodlites

LinkEx™ WF-250XL LED Floodlites

Handheld Leadlamps

ATEX Transformer (230V or 110V to 24V)

Range of cables, plugs, socket types, and power distribution systems

Protective, fixing, and mounting accessories

- Applications include vessel entry, tank cleaning, routine inspection, and maintenance shutdowns in industries like oil and gas, aircraft, petrochemical, and utilities.
- LinkEx™ products are equipped with SOVI™, Wolf's unique safety feature.
- Standard configurations are available, with the option for custom tank lighting kits based on specific requirements, including cable extensions and light configurations.

Technical Specifications:

- Ultra-bright, high-power, low-maintenance LED "Fitted for Life"
- SOVI™ (Safe Optimal Voltage Indicator) on LinkEx™ LED Temporary Luminaires (including Emergency) and LinkEx™ WF-300XL & WF-250XL Floodlite for maximum safety
- Powers up to 8 LED Luminaires
- Emergency luminaires with backup battery supply for extra safety
- Fitted with ATX plugs and sockets
- Low and easy maintenance
- Robust, durable, and lightweight construction
- Quick and easy installation over a large area
- Low power consumption
- Wide range of accessories

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

TRANSFORMER			KIT		
PRODUCT REFERENCE	**MATERIAL/VOLTAGE/MODEL**	**VA**	**TEMP.CLASS &AMBIENT (°C)**	**CODE**	
4 x LX-400 180° Cabling (per light): 20m SY 2.5mm²	GRP 110V LL-114/T4	250	T4 -20°C to +55°C	LX-175/T4	
	SS 110V LL-133/T4	250	T4 -20°C to +55°C	LX-185/T4	
	GRP 230 LL-214/T4	250	T4 -20°C to +55°C	LX-275/T4	
	SS 230V LL-233/T4	250	T4 -20°C to +55°C	LX-285/T4	
4 x LX-400E (EMERGENCY) Cabling (per light): 20m SY 2.5mm²	GRP 110V LL-114/T4	250	T4 -20°C to +55°C	LX-145/T4	
	SS 110V LL-133/T4	250	T4 -20°C to +55°C	LX-165/T4	
	GRP 230 LL-214/T4	250	T4 -20°C to +55°C	LX-245/T4	
	SS 230V LL-233/T4	250	T4 -20°C to +55°C	LX-265/T4	

3 x LX-400 180° + 1 x LX-400E Cabling (per light): 20m SY 2.5mm²	GRP 110V LL-114/T	250	T4 -20°C to +55°C	LX-146/T4	
	SS 110V LL-133/T4	250	T4 -20°C to +55°C	LX-166/T4	
	GRP 230 LL-214/T4	250	T4 -20°C to +55°C	LX-246/T4	
	SS 230V LL-233/T4	250	T4 -20°C to +55°C	LX-266/T4	
3 x LX-400 180° + 1x 360° Cabling (per light): 20m SY 2.5mm²	GRP 110V LL-114/T4	250	T4 -20°C to +55°C	LX-176/T4	
	SS 110V LL-133/T4	250	T4 -20°C to +55°C	LX-186/T4	
	GRP 230 LL-214/T4	250	T4 -20°C to +55°C	LX-276/T4	
	SS 230V LL-233/T4	250	T4 -20°C to +55°C	LX-286/T4	
2 x LX-400 180° + 2 x WF-300XL Cabling (per light): 20m SY 2.5mm² (LX) 20m SY 2.5mm² (WF)	GRP 110V LL-114/T3	320	T3 -20°C to +50°C	LX-137/T3	
	SS 110V LL-133/T3	320	T3 -20°C to +42°C	LX-157/T3	
	GRP 230 LL-214/T3	320	T3 -20°C to +50°C	LX-237/T3	
	SS 230V LL-233/T3	320	T3 -20°C to +42°C	LX-257/T3	

4 x WF-300XL Cabling (per light): 20m SY 2.5mm²	GRP 110V LL-114/T3	400	T3 -20°C to +35°C	LL-135/T3	
	SS 110V LL-133/T3	400	T3 -20°C to +30°C	LL-155/T3	
	GRP 230 LL-214/T3	400	T3 -20°C to +35°C	LL-235/T3	
	SS 230V LL-233/T3	400	T3 -20°C to +30°C	LL-255/T3	
4 x WF-250XL Cabling (per light): 20m SY 2.5mm²	GRP 110V (LL-114/T4)	250	T4 -20°C to +55°C	LL-139/T4	
	SS-110V (LL-133/T4)	250	T4 -20°C to +55°C	LL-159/T4	
	GRP 230V (LL-214/T4)	250	T4 -20°C to +55°C	LL-239/T4	
	SS 230V (LL-233/T4)	250	T4 -20°C to +55°C	LL-259/T4	
8 x LX-400 180° (2 x chains x4 linked) Cabling (per light): 5m light SY 2.5mm²	GRP 110V LL-114/T3	400	T3 -20°C to +35°C	LX-177/T3	
	SS 110V LL-133/T3	400	T3 -20°C to +30°C	LX-187/T3	
	GRP 230 LL-214/T3	400	T3 -20°C to +35°C	LX-277/T3	
	SS 230V LL-233/T3	400	T3 -20°C to +30°C	LX-287/T3	

8 x LX-400E (EMERGENCY) **(2 x chains x4 linked)** Cabling (per light): 5m light SY 2.5mm²	GRP 110V LL-114/T3	400	T3 -20°C to +35°C	LX-147/T3	
	SS 110V LL-133/T3	400	T3 -20°C to +30°C	LX-167/T3	
	GRP 230 LL-214/T3	400	T3 -20°C to +35°C	LX-247/T3	
	SS 230V LL-233/T3	400	T3 -20°C to +30°C	LX-267/T3	

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.