Wolf® ML-15 Markerlite



The Wolf Markerlite ML-15 is an ultra-compact, **next-generation** ex-proof signal light designed to indicate the location of personnel, equipment, or potential hazards in dangerous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, this product helps prevent workplace accidents by significantly increasing visibility in dark and risky environments.

The device holds the highest protection certifications for both industrial explosive atmospheres (Zone 0) and underground mines (**I M1 Mining**). Weighing only 23 grams, this micro lamp can be easily attached to helmets, clothing, or pipelines. With its IP67 waterproof rating and up to 65 hours of operation time, it functions as an uninterrupted "position marker" in the harshest field conditions.

Usage Areas

- **Mining:** Personnel tracking in underground mines and marking obstacles in dark galleries.
- **Oil & Gas:** Night shift personnel visibility in refineries and offshore platforms.
- **Marine:** Marking workers inside ship holds and tanks.
- **Search & Rescue:** Team member tracking during hazardous material interventions.
- **Industrial Plants:** Marking pipelines, valve locations, and emergency exit routes.

Certification & Compliance

- The Wolf Markerlite is a bright LED light designed for high visibility.
- It’s CE marked for the ATEX directive and IECEx certified for use in potentially explosive zones (Zone 1 for gas, Zone 21 for dust).
- It is used in hazardous areas to mark positions of people or hazards, such as on headgear, clothing, bikes, or for marking escape routes.
- Gas Group: IIA, IIB, IIC
- Temperature Class: T4

Standards

Ex-Proof (ATEX)

IECEx

CE 0598

TECHNICAL DETAILS

MARKERLITE				
PRODUCT REFERENCE		**ML-15W**	**ML-15A**	**ML-15R**
PRODUCT DESCRIPTION		White	Amber	Red
CODE (INDUSTRIAL)		II 2 GD Ex ib IIC T4 Gb (Tamb -40°C to +55°C) IP67 Ex ib IIIB T200°C Db		
TYPE OF PROTECTION		'ib' intrinsic safety		
AREA OF CLASSIFICATION (GAS)		Zones 1 and 2 Gas Groups IIA, IIB & IIC		
TEMP. CLASSIFICATION (GAS)		T4		
AMBIENT TEMPERATURE		-40°C - +55°C		
AREA OF CLASSIFICATION (DUST)		Zones 21 and 22 Dust Groups IIIA & IIIB		
MAX. SURFACE TEMPERATURE (DUST)		T200°C		
CERTIFICATE		ATEX - Baseefa14ATEX0203 IECEx - IECEx BAS 14.0095		
ENCLOSURE		Polycarbonate and Thermoplastic Elastomer		
LENS		Polycarbonate		
BEAM TYPE		Wide Angle (180°)		
LIGHT		High Output LED		
LIGHT SOURCE:	TYPE	LED White	LED Amber	LED Red
	OUTPUT	4.7 lumens		
	LIFE	25,000 hrs		
POWER SOURCE	TYPE	CR2032 Lithium Button Cells with a minimum separation of 0.9mm between central negative (-) pad and outer edge of cell		
	VOLTS	2 x 3V		
LIGHT DURATION		65 hrs (flashing) & 25 hrs (static)		

MARKERLITE				
PRODUCT REFERENCE		**ML-15W**	**ML-15A**	**ML-15R**
INGRESS PROTECTION		IP67		
WEIGHT (INCL.CELLS)		23 grams		

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.