

EXPLOSIONPROOF

LED

LIGHT FITTINGS

TO USE IN ZONES 1,21 & 2,22

KDB 15ATEX0049X

NEW



ABOUT US

ATM Lighting is a Polish manufacturer of technical light fittings for various industry sectors.

We are a team of young, innovative people with experience in designing, producing and providing advanced lighting solutions to different demands of our customers. Our product portfolio has been divided into five main sections: explosionproof light fittings and accessories, vandalproof luminaires (for railway infrastructure and tunnels), custodial lighting, light fittings for factories, warehouses and also food industry and farming light fixtures.



HIGHER LEVEL

Since 2017 we have expanded our offer of explosionproof light fittings. We have implemented the innovative EXF series, a specialized group of explosionproof luminaires for the zone 1,21 of explosion hazard areas, where gas and steam of flammable liquids, as well as combustibles dusts and fibers mixed with air occurs.

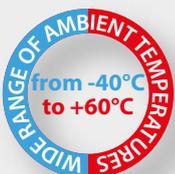


Update of ATEX certificate allows EXL luminaires to work in zone 21. We introduced **DALI protocol** which gives the ability to monitor and control lighting.

Thanks to advanced technical solutions, our **LED** light fittings can work in zones 1,21 and 2,22 explosion hazard of gases and dust mixtures with air, which has been confirmed by the **ATEX** certificate no. KDB 15ATEX0049X. Luminaires also have approval of Polish Scientific and Research Centre for Fire Protection (**CNBOP**) and Polish National Institute of Public Health and Hygiene (**NIPH - NIH/PZH**) certificate. Products from EXL series have been awarded at the **Light 2017** fair in Warsaw (Poland).



ADVANTAGES OF OUR PRODUCTS



EXPLOSIONPROOF LIGHT FITTINGS

PROJECT: MALT HOUSE – GDANSK (POLAND)

II 2G Ex eb mb op is IIC T5 Gb
II 2D Ex tb op is IIIC T55°C-T70°C IP66/67 Db



EXF200LED

Explosionproof light fitting with encapsulated LED modules. Designed for use in zones 1,21 and 2,22 of explosion hazard areas. Housing and diffuser made of UV stabilized polycarbonate, stainless steel clamps. Optionally available for use with central battery (ZB) or with an autonomous, 3h emergency power supply unit (A3).

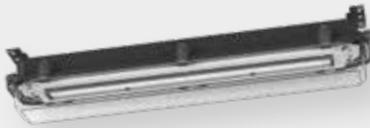
II 2G Ex eb mb op is IIC T5 Gb
II 2D Ex tb op is IIIC T55°C-T70°C IP66/67 Db



EXF250LED

Explosionproof light fitting with encapsulated LED modules. Designed for use in zones 1,21 and 2,22 of explosion hazard areas. Housing is made of GRP, diffuser is made of PMMA or UV stabilized polycarbonate. This light fitting is optionally available to use with central battery (ZB) or with an autonomous, 3h emergency power supply unit (A3).

II 2G Ex eb mb op is IIC T5 Gb
II 2D Ex tb op is IIIC T55°C-T70°C IP67 Db



EXF300LED

Explosionproof light fitting with encapsulated LED modules. Designed for use in zones 1,21 and 2,22 of explosion hazard areas. Housing is made of stainless steel, UV stabilized polycarbonate diffuser. EXF300LED has a high degree of impact resistance (IK10). It is also available in optional emergency ZB or A3 version.

ATEX

Each of our EXF and EXL LED explosionproof light fittings has a valid ATEX certificate numbered KDB 15ATEX0049X issued by the Central Mining Institute in Katowice (Poland).

Example of explosionproof device marking:



Interpretation of an example marking:

Explosionproof light fitting designed to use in areas where during normal operation, an explosive atmosphere containing a mixture of combustible substances in the form of gas, steam, mist or dust with air may be present. Explosion protection is provided through a reinforced housing, encapsulated driver and LED's. The device can be used in the environment of gases classified as hydrogen group (eg. acetylene, hydrogen) whose temperature of self-ignition is higher than 100°C. The maximum surface temperature of the product does not exceed 55°C. Thanks to its high degree of protection IP67 the light fitting is protected against dust intrusion into its interior and can be used in all types of flammable dusts environments (including conductors with an electrical resistivity less than 106Ω).



PROJECT: HEAT AND POWER PLANT – WARSAW (POLAND)

II 3G Ex ec op is IIC T4 Gc
II 2D Ex tb op is IIIC T70°C IP66/67 Db



EXL210LED

Explosionproof light fitting with LED modules, designed for use in zones 21 and 2,22 of explosion hazard areas. In addition to the ATEX certificate, the luminaire also has CNBOP approval and NIPH – NIH/PZH certificate. **This product has won first prize in the competition for the best product of the Light 2017 fair in Warsaw (Poland).**

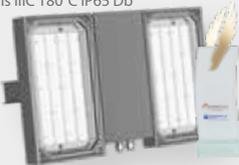
II 3G Ex ec op is IIC T4 Gc
II 2D Ex tb op is IIIC T70°C IP67 Db



EXL310LED

Explosionproof light fitting with LED modules and special optics. Designed for use in zones 21 and 2,22 of explosion hazard areas. The luminaire has a high degree of impact resistance (IK10). Version compatible with the DALI control system and ZB as well as A3 emergency are available.

II 3G Ex ec op is IIC T4 Gc
II 2D Ex tb op is IIIC T80°C IP65 Db



EXL380LED

Explosionproof floodlight with LED modules and special optics. Designed for use in zones 21 and 2,22 of explosion hazard areas. The maximum luminous flux of the floodlight is approximately 17,000lm. **EXL380LED took the 3rd place in the competition for the most innovative product of the Light 2017 fair in Warsaw (Poland).**

II 3G Ex ec op is IIC T4 Gc
II 2D Ex tb op is IIIC T70°C IP65 Db

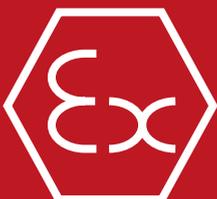


EXL390LED

Explosionproof coffer light fitting with LED modules, designed for use in zones 21 and 2,22 of explosion hazard areas. The luminaire is available in three different versions: modular coffered ceiling version, recessed version for suspended ceiling and surface version. There is also a DALI and ZB or A3 emergency versions.

What is an ATEX certificate?

According to the ATEX directive (fr. Atmosphères Explosibles) 2014/34/EU of the European Parliament, all products intended for use in potentially explosive atmospheres have to meet strict safety and health requirements. The level of security required and the evaluation procedures associated with it depend directly on the level of risk and the environment in which the equipment will work.



The ATEX certificate is issued by an accredited certification body as a confirmation of the positive result of rigorous testing involving the design, prototype and manufacturing process with continuous monitoring of the final product as well as cyclic audits of the production facility.

APPLICATIONS OF EXPLOSIONPROOF LIGHT FITTINGS



CHEMICAL LABORATORIES



PAINT SHOPS



GRAIN SILOS



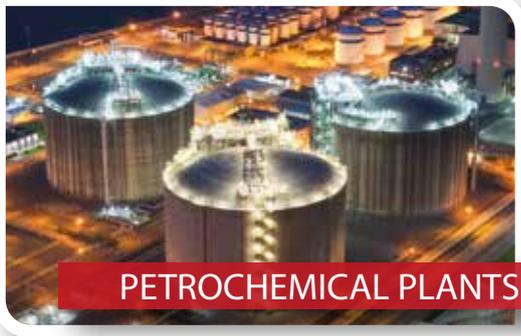
POWER PLANTS



OFFSHORE



PAINT WAREHOUSES



PETROCHEMICAL PLANTS



COAL TRANSPORT



CARPENTER'S WORKSHOPS



SEWAGE TREATMENT PLANTS



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