



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx KDB 20.0003X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-04-10

Applicant: **ATM Lighting Spółka z o.o.**  
ul. Budowlanych 31  
GDAŃSK 80-298  
Poland

Equipment: **Light fixtures type EXF-...LED and EXL-...LED**

Optional accessory:

Type of Protection: **optical radiation "op is" Increased safety "eb" Encapsulation "mb" Dust protection by enclosure "tb"**

Marking: Ex eb mb op is IIC T5 Gb  
Ex tb op is IIIC T55°C or T70°C Db  
or  
Ex ec op is IIC T4 Gc  
Ex tb op is IIC T70°C or T80°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Piotr Madej**

Position:

**Head of ExCB**

Signature:  
(for printed version)

Date:

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Główny Instytut Górnictwa, Kopalnia Doświadczalna "BARBARA"**  
(Central Mining Institute Experimental Mine "Barbara")  
ul. Podleska 72  
43-190 Mikołów  
Poland





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Date of issue: 2020-04-10

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Manufacturer: **ATM Lighting Spółka z o.o.**  
ul. Budowlanych 31  
GDĄŃSK 80-298  
**Poland**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KDB/ExTR20.0003/00](#)

Quality Assessment Report:

[PL/KDB/QAR20.0001/00](#)



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Certificate No.: **IECEX KDB 20.0003X**

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Date of issue: 2020-04-10

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Depending on the variant, the light fixtures type EXF-...LED and EXL-...LED are suitable for use in indoor and outdoor installations in zones 1, 2, explosion hazard of gases, vapors and mists of flammable liquids with air explosive groups IIA, IIB, IIC, as well as zones 21, 22 explosion hazards of combustible dusts and fibres belonging to explosion groups IIIA, IIIB, IIIC.

Light fixtures are made as increased safety equipment. The mounting plate and fixing brackets are made of powder-coated galvanized sheet of steel.

The connectors used ensure that the cable conduits are firmly secured.

Also for the LED modules used in the light fixtures type EXF-...LED are the types of protection: encapsulated „m" and protection of devices using optical radiation.

Description of type key and technical parameters are included in CoC Attachment.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

Do not allow dust to accumulate on the light fitting. Cleaning have to be carried out using vacuum cleaners or a soft cloth with antistatic agent suitable to working conditions. Do not use chemicals that can damage an part of the light fitting.

## **Annex:**

[CoC\\_KDB\\_20\\_0003\\_00\\_Attachment.pdf](#)

**EXF-...LED light fixtures** are made in the following variants:

**EXF-200LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200
	<b>LED modules:</b>
2	typ: F lub FX - power 17,7W, G lub GX- power 10,9W
3	number of LED modules: 1, 2, 4
	<b>power supply marking:</b>
4	35E - 110-254V 50÷60Hz; 220-250V DC
	<b>wiring marking:</b>
5	30, 33, 40, 44, 50, 55, 60, 66
	<b>cable glands marking:</b>
6	layout and number: 10, 11, 20, 21,22
7	material: P,M
8	size: 20,25
9	<b>housing material:</b>
	PC - polycarbonate
10	<b>diffuser material:</b>
	PC - polycarbonate
11	<b>emergency version:</b>
	A3- version with 3h emergency module,
	ZB - version for central battery

**EXF-250LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200
	<b>LED modules:</b>
2	typ: F lub FX - power 17,7W, G lub GX- power 10,9W
3	number of LED modules: 1, 2, 4
	<b>power supply marking:</b>
4	35E - 110-254V 50÷60Hz; 220-250V DC
	<b>wiring marking:</b>
5	30, 33, 40, 44, 50, 55, 60, 66
	<b>cable glands marking:</b>
6	layout and number:: 10, 11, 20, 21,22
7	material: P,M
8	size: 20,25
9	<b>housing material:</b>
	GRP - polyester reinforced with fiberglass
10	<b>diffuser material:</b>
	PM - PMMA
	PC - PC
11	<b>emergency version:</b>
	A3- version with 3h emergency module,
	ZB - version for central battery

**EXF-300LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200
	<b>LED modules:</b>
2	typ: F lub FX - power 17,7W, G lub GX- power 10,9W
3	number of LED modules: 1, 2, 4
	<b>power supply marking:</b>
4	35E - 110-254V 50÷60Hz; 220-250V DC
	<b>wiring marking:</b>
5	30, 33, 40, 44, 50, 55, 60, 66
	<b>cable glands marking:</b>
6	layout and number: 10, 11, 20, 21,22
7	material: P,M
8	size: 20,25
	<b>housing material:</b>
9	NIRO - stainless steel
10	<b>diffuser material:</b>
	PC - polycarbonate
11	<b>emergency version:</b>
	A3- version with 3h emergency module,
	ZB - version for central battery

**EXL-...LED light fixtures** are made in the following variants:

**EXL-210LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200, 1500
	<b>LED modules:</b>
2	typ: E - power 10,4W
3	number of LED modules:2, 4, 6, 8
	<b>power supply marking:</b>
4	35E - 230V; 0/50÷60Hz
	<b>wiring marking:</b>
5	30, 33, 50, 55, 70, 77
	<b>cable glands marking:</b>
6	layout and number: 10, 11, 20, 21, 22
7	material: P,M
8	size: 20,25
9	<b>housing material:</b>
	PC - polycarbonate
10	<b>diffuser material:</b>
	PC - polycarbonate
11	<b>additional options</b>
	DALI - version with DALI interface
	ZB - version for central battery

**EXL-310LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200
	<b>LED modules:</b>
2	typ: E - power 10,4W
3	number of LED modules: 2, 4, 8
	<b>power supply marking:</b>
4	35E - 230V; 0/50÷60Hz
	<b>wiring marking:</b>
5	30, 33, 50, 55, 70, 77
	<b>cable glands marking:</b>
6	układ i liczba wpustów: 10, 11, 20, 21, 22
7	materiał wpusty: P,M
8	rozmiar wpustu: 20,25
9	<b>housing material:</b>
	NIRO - stal nierdzewna
10	<b>diffuser material:</b>
	PC - poliwęglan
11	<b>additional options</b>
	DALI - wersja z interfejsem DALI
	ZB - wersja pod centralną baterię

**EXL-380LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	045, 090 130
	<b>LED modules:</b>
2	number of LED modules: 4, 8, 12
3	typ: E - power 10,4W
	<b>power supply marking:</b>
4	35E - 230V; 0/50÷60Hz
	<b>wiring marking:</b>
5	30, 50, 70
	<b>cable glands marking:</b>
6	layout and number: 10, 11
7	material: M
8	size: 20, 25
9	<b>housing material:</b>
	NIRO - stainless steel
	BRS - polished stainless steel
10	<b>diffuser material:</b>
	GL - tempered glass
11	<b>additional options</b>
	DALI - version with DALI interface

**EXL-390LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.**

	<b>light fixture length marking:</b>
1	0600, 1200
	<b>LED modules:</b>
2	number of LED modules: 3, 4, 6
3	typ: E - power 10,4W
	<b>power supply marking:</b>
4	35E - 230V; 0/50÷60Hz
	<b>wiring marking:</b>
5	30, 33, 50, 55, 70, 77
	<b>cable glands marking:</b>
6	layout and number: 10, 11
7	material: M
8	size: 20, 25
9	<b>housing material:</b>
	GS - galvanized steel
	NIRO - stainless steel
10	<b>diffuser material:</b>
	PC - polycarbonate
	GL - tempered glass
11	<b>additional options</b>
	DALI - version with DALI interface
	ZB - version for central battery

**Technical parameters:**

Variation EXF-200LED-... EXF-250LED-... EXF-300LED-...	-F1-... -FX1-...	-F2-... -FX2-...	-F4-... -FX4-...	-G2-... -GX2-...	-G4-... -GX4-...
Marking	Ex eb mb op is IIC T5 Gb Ex tb op is IIIC T55° or 70°C Db				
Rated voltage:	110÷254 V 50÷60Hz; 200÷250 V DC				
Light sources LED modules:	max 21,2 W	max 38,6 W	max 78,1 W	max 25,3 W	max 47,0 W
Passing cable maximal current:	16A for L, N, PE 10A for L1, L2, L3, PE, N				
Temperature class	T5				
Maximum surface temperature	T55°C	T55°C	T55°C	T70°C	T70°C
Minimum ambient temperature:	-40°C				
Maximum ambient temperature:	+45°C	+ 45°C	+45°C	+ 60°C	+ 55°C
Degree of protection IP:	IP66 / IP67				

Variation EXL-210LED-...	0600-E2-...	0600-E4-...	1200-E4-...	1200-E8-...	1500-E6-...
Marking	Ex ec op is IIC T4 Gc Ex tb op is IIIC T70°C Db				
Rated voltage:	230VAC; 0/50-H60HZ				
Light sources LED modules:	max 20,4 W	max 42,2 W	max 47,1 W	max 65,7 W	max 59,8 W
Passing cable maximal current:	16A for L, N, PE 10A for L1, L2, L3, PE, N				
Temperature class	T4				
Maximum surface temperature	T70°C	T70°C	T70°C	T70°C	T70°C
Minimum ambient temperature:	-40°C				
Maximum ambient temperature:	+ 45°C	+45°C	+45°C	+ 45°C	+45°C
Degree of protection IP:	IP66 / IP67				



Variation	EXL-310LED-...	0600-E2-...	0600-E4-...	1200-E4-...	1200-E8-...
Marking	<b>Ex ec op is IIC T4 Gc</b> <b>Ex tb op is IIIC T70°C Db</b>				
Rated voltage:	230VAC; 0/50-60Hz				
Light sources LED modules:	max 25,0 W	max 41,0 W	max 48,4 W	max 67,5 W	
Passing cable maximal current:	16A for L, N, PE 10A for L1, L2, L3, PE, N				
Temperature class	T4				
Maximum surface temperature	<b>T70°C</b>	<b>T70°C</b>	<b>T70°C</b>	<b>T70°C</b>	
Minimum ambient temperature:	-40°C				
Maximum ambient temperature:	+50°C	+50°C	+50°C	+50°C	
Degree of protection IP:	IP67				

Variation	EXL-380LED-...	-E4-...	-E8-...	-E12-...
Marking	<b>Ex ec op is IIC T4 Gc</b> <b>Ex tb op is IIIC T80°C Db</b>			
Rated voltage:	230VAC; 0/50-60Hz			
Light sources LED modules:	max 54 W	max 98 W	max 146 W	
Passing cable maximal current:	16A for L, N, PE 10A for L1, L2, L3, PE, N			
Temperature class	T4			
Maximum surface temperature	<b>T80°C</b>	<b>T80°C</b>	<b>T80°C</b>	
Minimum ambient temperature:	-40°C			
Maximum ambient temperature:	+40°C	+40°C	+40°C	
Degree of protection IP:	IP65			

Variation	EXL-390LED-...	-E3-...	-E4-...	-E6-...
Marking	<b>Ex ec op is IIC T4 Gc</b> <b>Ex tb op is IIIC T70°C Db</b>			
Rated voltage:	230VAC; 0/50 <sup>^</sup> 60Hz			
Light sources LED modules:	max 36,6 W	max 47,0 W	max 70,5 W	
Passing cable maximal current:	16A for L, N, PE 10A for L1, L2, L3, PE, N			
Temperature class	T4			
Maximrm surface temperature	<b>T70°C</b>	<b>T70°C</b>	<b>T70°C</b>	
Minimum ambient temperature:	-40°C			
Maximum ambient temperature:	+50°C	+50°C	+50°C	
Degree of protection IP:	IP65			