



EU TYPE EXAMINATION CERTIFICATE

[2] Protective equipment and systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817)

[3] EU type examination certificate (module B):

KDB 15ATEX0049X

2nd edition

[4] Equipment:

Light fixtures type EXF-...LED and EXL-...LED

[5] Manufacturer:

ATM Lighting Sp. z o.o.

[6] Address:

ul. Budowlanych 31, 80-298 Gdańsk, POLAND

[7] The protective equipment or system and any acceptable variations thereto are specified in the schedule to this certificate.

[8] Central Mining Institute, Notified Body no 1453 according to Directive 2014/34/EU of February 26, 2014, approves that the protective equipment or system specified in this certificate has been found to comply with the essential health and safety requirements for the design and construction of protective equipment and systems intended for use in potentially explosive atmosphere given in Annex II to Directive 2014/34 /EU (Załącznik nr 2 Rozporządzenia Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The results of the assessment and examinations as well as the list of agreed documentation are recorded in the confidential Report **KDB No 15.070-2 [T-7287]**

[9] The essential health and safety requirements have been met by compliance with the requirements of the following standards:

EN IEC 60079-0:2018; EN IEC 60079-7:2015/A1:2018;

EN 60079-18:2015/A1:2017; EN 60079-28:2015; EN 60079-31:2014

[10] If sign "X" is placed after the certificate number, this means the specific conditions of use set out in the schedule to this certificate.

[11] This EU type examination certificate relates only to the construction, assessment and testing of the specified product in accordance with Directive 2014/34 /EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The certificate shall not cover the remaining requirements of the Directive regarding the manufacturing process and placing the protective equipment or system on the market.

[12] The marking of the equipment shall include the following:



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

or



II 3G Ex ec op is IIC T4 Gc
II 2D Ex tb op is IIIC T70°C or T80°C Db

mgr inż. *Piotr Madej*
ATEX Certification
Expert



Główny Instytut Górnictwa
Jednostka Oceny Zgodności
p.o. KIEKOWNIKA

dr inż. *Dariusz Stefaniak*

Date of issue: **02 April 2020**

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[15] Description:

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 mixtures 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. For the LED modules in the light fixtures type EXF-...LED types of protection: encapsulated „m” and protection of devices using optical radiation are used also.

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

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

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



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

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

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

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



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The EXF-...LED luminaires can be fitted with the following accessories:

- Connectors type ZDUB-2.5-2_4AN manufactured by Weidmuller (KEMA 97ATEX2755U) or type 264-230 manufactured by WAGO (PTB 98ATEX3129U),
- LED power supply type HFX LED manufactured by BAREL (Presafe 14ATEX5355U),
- LED modules type F, FX, G, GX manufactured by ATM Lighting,
- cable glands type ESKE/1-e manufactured by Wiska (PTB 13ATEX1015X) or type ESSKE manufactured by Wiska (PTB 05ATEX1098X) or type EMSKE manufactured by Wiska (PTB 04ATEX1112X),
- stopping plugs type EX-EVSG manufactured by Wiska (PTB 06ATEX1032X) or type EX-EMVS manufactured by Wiska (PTB 05ATEX1106X).

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

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

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



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

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

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

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



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

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

The EXL- ... LED light fixtures can be fitted with the following accessories :

- connectors type ZDUB-2.5-2_4AN manufactured by Weidmuller (KEMA 97ATEX2755U) or type 264-230 manufactured by WAGO (PTB 98ATEX3129U),
- LED power supply type Luxtronic manufactured by HADLER (IECEX TUN 15.0001 U)
- LED modules type STAR33 manufactured by ATM Lighting,
- Cable glands type ESKE/1-e manufactured by Wiska (PTB 13ATEX1015X) or type ESSKE manufactured by Wiska (PTB 05ATEX1098X) or type EMSKE manufactured by Wiska (PTB 04ATEXI112X),
- stopping plugs type EX-EVSG manufactured by (PTB 06ATEX1032X) or type EX-EMVS manufactured (PTB 05ATEX1106X).

Light fixtures can be equipped with maximum four cable glands.



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Technical parameters:

Variation EXF-200LED-... EXF-250LED-... EXF-300LED-...	-F1-... -FX1-...	-F2-... -FX2-...	-F4-... -FX4-...	-G2-... -GX2-...	-G4-... -GX4-...
Marking	II 2G Ex eb mb op is IIC T5 Gb II 2D 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
Ingress protection IP	IP66 / IP67				

Variation EXL-210LED-... 0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...	0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...	0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...	0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...	0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...	0600-E2-... 0600-E4-... 1200-E4-... 1200-E8-... 1500-E6-...
Marking	II 3G Ex ec op is IIC T4 Gc II 2D 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
Ingress protection IP	IP66 / IP67				



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Variation	EXL-310LED-...	0600-E2-...	0600-E4-...	1200-E4-...	1200-E8-...
Marking	II 3G Ex ec op is IIC T4 Gc II 2D Ex tb op is IIIC T70°C Db				
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	T70°C	T70°C	T70°C	T70°C	T70°C
Minimum ambient temperature:	-40°C				
Maximum ambient temperature:	+50°C	+50°C	+50°C	+50°C	+50°C
Ingress protection IP:	IP67				

Variation	EXL-380LED-...	-E4-...	-E8-...	-E12-...
Marking	II 3G Ex ec op is IIC T4 Gc II 2D Ex tb op is IIIC T80°C Db			
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	T80°C	T80°C	T80°C	
Minimum ambient temperature:	-40°C			
Maximum ambient temperature:	+40°C	+40°C	+40°C	
Ingress protection IP:	IP65			



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Variation	EXL-390LED-...	-E3-...	-E4-...	-E6-...
Marking	II 3G Ex ec op is IIC T4 Gc II 2D Ex tb op is IIIC T70°C Db			
Rated voltage:	230VAC; 0/50÷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			
Maximum surface temperature	T70°C	T70°C	T70°C	
Minimum ambient temperature:	-40°C			
Maximum ambient temperature:	+50°C	+ 50°C	+ 50°C	
Ingress protection IP:	IP65			

[16] Test Report:

"ATEX assessment report" KDB No 15.070-2

[17] Special conditions of use:

- 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.

[18] Essential health and safety requirements:

Met by fulfilling the requirements of the following standards:

EN IEC 60079-0:2018; EN IEC 60079-7:2015/A1:2018;
 EN 60079-18:2015/A1:2017; EN 60079-28:2015; EN 60079-31:2014
 (PN-EN IEC 60079-0:2018-09; PN-EN 60079-7:2016-02/A1:2018-03;
 PN-EN 60079-18:2015-06/A1:2018-02; PN-EN 60079-28:2015-12;
 PN-EN 60079-31:2014-10)

Document history:

- EC type examination certificate KDB 15ATEX0049X, 0 edition of June 26, 2015, initial certification
- EU type examination certificate 15ATEX0049X, 1st edition of August 29, 2017, supersedes the certificate KDB 15ATEX0049X, 0 edition of June 26, 2015. Light fixtures variations have been expended.
- EU type examination certificate KDB 15ATEX0049X, 2nd edition of April 02, 2020, supersedes the certificate KDB 15ATEX0049X, 1st edition of August 29, 2017. A three-phase power connection has been introduced. A new generation of LEDs has been used. Changed the led modules layout for type EXL390LED Light fixtures.

