[1] # EU TYPE EXAMINATION CERTIFICATE

[2] Equipment and protective 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 **6th edition**

[4] Equipment:

Lighting fixtures types EXF...LED and EXL...LED

[5] Manufacturer:

ATM Lighting Sp. z o.o.

[6] Address:

ul. Maszynowa 30A, 80-298 Gdańsk, Poland

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

[8] Główny Instytut Górnictwa – Państwowy Instytut Badawczy, Notified Body no 1453 according to Directive 2014/34/EU of February 26, 2014, approves that the equipment or protective system specified in this certificate has been found to comply with the essential health and safety requirements for the design and construction of equipment and protective 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 15.070-6 [T-7287/1]**

[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 60079-7:2015;
EN IEC 60079-7:2015/A1:2018;EN 60079-18:2015/A1:2017;
EN 60079-31:2014

[10] If sign "X" is placed after the certificate number, this means the special 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 equipment or protective system on the market.

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

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

or

II 3G Ex ec IIC T4 or **T5 Gc**
II 2D Ex tb IIIC T60°C or **T70°C** or **T80°C Db**

GŁÓWNY INSTYTUT GÓRNICTWA –
Państwowy Instytut Badawczy
Jednostka Oceny Zgodności
mgr inż. Piotr Madej
ATEX Certification
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KIEROWNIK
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Głównego Instytutu Górnictwa –
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dr inż. Dariusz Stefaniak

Date of issue: 15 October 2024

Główny Instytut Górnictwa – Państwowy Instytut Badawczy, 40-166 Katowice, Plac Gwarków 1, Poland, www.gig.eu
Jednostka Oceny Zgodności, 43-190 Mikołów, ul. Podleska 72, www.gigcert.com
Certification Body accredited by PCA *[Polish Centre for Accreditation]*, **No AC038.**
This certificate may only be reproduced in its entirety together with schedules. The document without signatures and stamps shall be not valid.

[15] Description:

Lighting fixtures types EXF...LED and EXL...LED are intended, depending on the variant, for use in indoor and outdoor installations in zones 1 and 2 of the explosion hazard of mixtures of gases, vapours and mists of flammable liquids with air classified as explosion groups IIA, IIB, IIC, as well as zones 21 and 22 of the explosion hazard of dust and flammable fibers classified as explosion groups IIIA, IIIB, IIIC.

The lighting fixtures are made as increased safety devices. The mounting plate and mounting brackets are made of powder-coated galvanized sheet metal. The connectors used ensure secure fastening of the power cable cores. In addition, for LED modules used in type luminaires EXF...LED uses a type of explosion-proof protection - encapsulation and protection of devices using optical radiation.

The lighting fixtures can be equipped with a maximum of four certified cable entries and/or plugs.

Lighting fixtures EXF...LED are available in the following variants:

EXF200LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200
	modules LED:
2 -	type: F or FX - power 17,7W; G or GX - power 10,9W
3 -	number of modules LED: 1, 2, 4
	marking of the supply:
4 -	25E - 110-254V 50÷60Hz; 220-250V DC 34E - 220-240V 50÷60Hz 35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 40, 44, 50, 55, 60, 66
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11, 20, 21, 22
7 -	material of the cable gland: P, M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	PC - polycarbonate
	material of the lampshade:
10 -	PC - polycarbonate
	optional version:
11 -	A3 - version with the module 3h, ZB - version for central battery DA - version with DALI interface

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EXF250LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200
	modules LED:
2 -	type: F or FX - power 17,7W; G or GX - power 10,9W
3 -	number of modules LED: 1, 2, 4
	marking of the supply:
4 -	25E - 110-254V 50÷60Hz; 220-250V DC 34E - 220-240V 50÷60Hz 35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 40, 44, 50, 55, 60, 66
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11, 20, 21, 22
7 -	material of the cable gland: P, M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	GRP - polyester with glass fiber
	material of the lampshade:
10 -	PM - PMMA polymethyl methacrylate
	PC - polycarbonate
	optional version:
11 -	A3 - version with the module 3h,
	ZB - version for central battery
	DA - version with DALI interface

EXF300LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.- .11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200
	modules LED:
2 -	type: F or FX - power 17,7W; G or GX - power 10,9W
3 -	number of modules LED: 1, 2, 4
	marking of the supply:
4 -	25E - 110-254V 50÷60Hz; 220-250V DC 34E - 220-240V 50÷60Hz 35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 40, 44, 50, 55, 60, 66
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11, 20, 21, 22
7 -	material of the cable gland: P, M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	NIRO - stainless steel
	material of the lampshade:
10 -	PC - polycarbonate
	optional version:
11 -	A3 - version with the module 3h,
	ZB - version for central battery
	DA - version with DALI interface

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In ligthing fixtures type EXF...LED following equipment can be mounted:

- terminals type ZDUB-2.5-2_4AN, manufacturer Weidmüller, type of protection Ⓔx II 2GD Ex eb IIC Gb, KEMA 97ATEX2755U, DEMKO 19ATEX1808U or
- terminals type 264-230, manufacturer WAGO, type of protection Ⓔx II 2G Ex eb IIC Gb, certificate PTB 98ATEX3129U;
- power supply LED type HFX or HFXE LED, manufacturer BAREL, type of protection Ⓔx II 2G Ex eb mb IIC T4, certificate Presafe 14ATEX5355U;
- alternatively power supply type ATM-Z1.H80, ATM-Z1.H80.DA, ATM-Z1.H120 or ATM-Z1.H120.DA, manufacturer ATM Lighting, type of protection Ⓔx II 2G Ex mb IIC Gb, certificate KDB 24ATEX0037U;
- alternatively converter type ATM-E1.T50 or ATM-E1.T250, manufacturer ATM Lighting, type of protection Ⓔx II 2G Ex mb IIC Gb, certificate KDB 24ATEX0037U;
- modules LED type F, FX, G, GX manufacturer ATM Lighting.

Lighting fixtures EXL...LED are available in the following variants:

EXL210LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200, 1500
	modules LED:
2 -	type: E - power 10,4W
3 -	number of modules LED: 2, 4, 6, 8
	marking of the supply:
4 -	35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 50, 55, 70, 77
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11, 20, 21, 22
7 -	material of the cable gland: P, M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	GRP - polyester with glass fiber
	PC - polycarbonate
	material of the lampshade:
10 -	PC - polycarbonate PM - PMMA polymethyl methacrylate
	optional version:
11 -	DA - version with DALI interface
	ZB - version for central battery

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EXL310LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200
	modules LED:
2 -	type: E - power 10,4W
3 -	number of modules LED: 2, 4, 8
	marking of the supply:
4 -	35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 50, 55, 70, 77
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11, 20, 21, 22
7 -	material of the cable gland: P, M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	NIRO - stainless steel
	material of the lampshade:
10 -	PC - polycarbonate
	optional version:
11 -	DA - version with DALI interface
	ZB - version for central battery

EXL380LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	045, 090, 130
	modules LED:
2 -	number of modules LED: 4, 8, 12
3 -	type: E - power 10,4W
	marking of the supply:
4 -	35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 50, 70
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11
7 -	material of the cable gland: M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	NIRO - stainless steel
	BRS - polished stainless steel
	material of the lampshade:
10 -	GL - tempered glass
	optional version:
11 -	DA - version with DALI interface

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EXL390LED-.1.-.2. .3.-.4.-.5.-.6. .7. .8.-.9.-.10.-.11.

	marking of the length of the lighting fixtures:
1 -	0600, 1200
	modules LED:
2 -	number of modules LED: 3, 4, 6
3 -	type: E - power 10,4W
	marking of the supply:
4 -	35E - 220-240V 50÷60Hz; 220-240V DC
	marking of the wiring:
5 -	30, 33, 50, 55, 70, 77
	marking of the cable glands:
6 -	arrangement and number of cable glands: 10, 11
7 -	material of the cable gland: M
8 -	size of the cable gland: 20, 25
	material of the enclosure:
9 -	GS - galvanized steel
	NIRO - stainless steel
	material of the lampshade:
10 -	PC - polycarbonate
	GL - tempered glass
	optional version:
11 -	DA - version with DALI interface
	ZB - version for central battery

In ligthing fixtures type EXL...LED following equipment can be mounted:

- terminals type ZDUB-2.5-2_4AN, manufacturer Weidmüller, type of protection Ex II 2GD Ex eb IIC Gb, KEMA 97ATEX2755U, DEMKO 19ATEX1808U or
- terminals type 264-230, manufacturer WAGO, type of protection Ex II 2G Ex eb IIC Gb, certificate PTB 98ATEX3129U;
- power supply LED type Luxtronic, manufacturer HADLER, type of protection Ex II 3G Ex ec IIC Gc U, confirmed by the manufacturer's EU declaration of conformity;
- alternatively for lighting fixtures type: EXL210LED, EXL310LED, EXL390LED following types of LED power supplies were used: Driver LCI 105W 250-1050mA 300V flexC NF lp EXC3, Driver LCI 75W 100-700mA 250V flexC NF lp EXC3, Driver LCI 100W 200-850mA 300V o4a sl PRE, manufacturer Tridonic;
- alternatively power supply type ATM-Z1.H80, ATM-Z1.H80.DA, ATM-Z1.H120 or ATM-Z1.H120.DA, manufacturer ATM Lighting, type of protection Ex II 2G Ex mb IIC Gb, certificate KDB 24ATEX0037U;
- modules LED type STAR33 manufacturer ATM Lighting.

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Technical parameters:

Version EXF200LED-... EXF250LED-... EXF300LED-...	-F1-... -FX1-...	-F2-... -FX2-..	-F4-... -FX4-...	-G2-... -GX2-...	-G4-... -GX4-...
Marking	Ex II 2G Ex eb mb IIC T5 Gb				
	Ex II 2D Ex tb IIIC T55°C or 70°C Db				
Rated voltage:	110-254V 50÷60Hz; 220-250V DC 220-240V 50÷60Hz 220-240V 50÷60Hz; 220-240V DC				
Source of the light LED modules:	max 21,2 W	max 38,6 W	max 78,1 W	max 25,3 W	max 47,0 W
Maximum current for feed-through connections:	16A for L, N, PE 10A for L1, L2, L3, N, PE				
Temperature class	T5				
Maximum surface temparature	T55°C	T55°C	T55°C	T70°C	T70°C
Minimum ambient temperature	-40°C Optional for version A3 -20°C				
Maximum ambient temperature:	+45°C	+ 45°C	+45°C	+ 60°C	+ 55°C
Ingress protection IP:	IP66 / IP67				

Version EXL210LED-...	0600-E2-...	0600-E4-...	1200-E4-...	1200-E8-...	1500-E6-...
Marking	Ex II 3G Ex ec IIC T5 Gc				
	Ex II 2D Ex tb IIIC T60°C Db				
Rated voltage:	220-240V 50÷60Hz; 220-240V DC				
Source of the light LED modules:	max 17,4 W	max 33,4 W	max 40,4 W	max 65,7 W	max 50,4 W
Maximum current for feed-through connections:	16A for L, N, PE 10A for L1, L2, L3, N, PE				
Temperature class	T5				
Maximum surface temparature	T60°C	T60°C	T60°C	T60°C	T60°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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SCHEDULE

EU type examination certificate

KDB 15ATEX0049X 6th edition

Version EXL310LED-...	0600-E2-...	0600-E4-...	1200-E4-...	1200-E8-...
Marking	II 3G Ex ec IIC T4 Gc			
	II 2D Ex tb IIIC T70°C Db			
Rated voltage:	220-240V 50÷60Hz; 220-240V DC			
Source of the light LED modules:	max 25,0 W	max 41,0 W	max 48,4 W	max 67,5 W
Maximum current for feed-through connections:	16A for L, N, PE 10A for L1, L2, L3, N, PE			
Temperature class	T4			
Maximum surface temparature	T70°C	T70°C	T70°C	T70°C
Minimum ambient temperature	-40°C			
Maximum ambient temperature:	+50°C	+50°C	+50°C	+50°C
Ingress protection IP:	IP67			

Version EXL380LED-...	-E4-...	-E8-...	-E12-...
Marking	II 3G Ex ec IIC T4 Gc		
	II 2D Ex tb IIIC T80°C Db		
Rated voltage:	220-240V 50÷60Hz; 220-240V DC		
Source of the light LED modules:	max 54 W	max 98 W	max 146 W
Maximum current for feed-through connections:	16A for L, N, PE 10A for L1, L2, L3, N, PE		
Temperature class	T4		
Maximum surface temparature	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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Version EXL390LED-...	-E3-...	-E4-...	-E6-...
Marking	II 3G Ex ec IIC T4 Gc		
	II 2D Ex tb IIIC T70°C Db		
Rated voltage:	220-240V 50÷60Hz; 220-240V DC		
Source of the light LED modules:	max 36,6 W	max 47,0 W	max 70,5 W
Maximum current for feed-through connections:	16A for L, N, PE 10A for L1, L2, L3, N, PE		
Temperature class	T4		
Maximum surface temparature	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 15.070-6

[17] Special conditions of use:

- Prevent dust and dirt from accumulating on the fixture. The lighting fixtures should be cleaned using a vacuum cleaner adapted to the existing working conditions or a soft cloth with an antistatic agent. Do not use chemicals that may damage any part of the fixture.
- Depending on the design of the lighting fixtures, certified cable glands and/or plugs ensuring a minimum degree of protection IP65 or IP66/IP67 should be used

[18] Essential health and safety requirements:

Met by fulfilling the requirements of the following standards:
EN IEC 60079-0:2018; EN 60079-7:2015;
EN IEC 60079-7:2015/A1:2018;EN 60079-18:2015/A1:2017;
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 60079-31:2014-10)

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Document history:

- EC type examination certificate KDB 15ATEX0049X, 0 edition of June 26, 2015 with supplements, initial certification.
- EU type examination certificate KDB 15ATEX0049X 1st edition of August 29, 2017, supersedes certificate KDB 15ATEX0049X 0 edition of June 26, 2015.
  The variants of execution have been extended.
- EU type examination certificate KDB 15ATEX0049X 2nd edition of April 02, 2020, supersedes certificate KDB 15ATEX0049X 1st edition of August 29, 2017,
  Pass-through three-phase power supply was introduced. A new generation of LEDs was used. The arrangement of LED modules for the EXL390LED lighting fixtures has been changed.
- EU type examination certificate KDB 15ATEX0049X 3rd edition of January 21, 2021, supersedes certificate KDB 15ATEX0049X 2nd edition of April 02, 2020,
  The enclosure of the lighting fixture type EXL210LED has been changed to the enclosure used in the lighting fixture type EXF250LED. Documentation has been updated.
- EU type examination certificate KDB 15ATEX0049X 4th edition of March 09, 2021, supersedes certificate KDB 15ATEX0049X 3rd edition of January 21, 2020,
  New Special conditions of use has been added. Documentation has been updated..
- EU type examination certificate KDB 15ATEX0049X 5th edition of April 20, 2023, supersedes certificate KDB 15ATEX0049X 4th edition of March 09, 2021'
  New LED power supplies types have been added:
  - Driver LCI 105W 250-1050mA 300V flexC NF lp EXC3 manufacturer Tridonic
  - Driver LCI 75W 100-700mA 250V flexC NF lp EXC3 manufacturer Tridonic
  - Driver LCI 100W 200-850mA 300V o4a sl PRE manufacturer Tridonic
  For alternative use with the power supply type Luxtronic manufacturer Hadler in lighting fixtures type EXL210LED, EXL310LED, EXL390LED and documentation has been updated.
- EU type examination certificate KDB 15ATEX0049X 6th edition of October 15, 2024, supersedes certificate KDB 15ATEX049X 5th edition of April 20, 2023
  The possibility of using of a new type power supply and converter has been introduced:
  - alternatively power supply type ATM-Z1.H80, ATM-Z1.H80.DA, ATM-Z1.H120 or ATM-Z1.H120.DA, manufacturer ATM Lighting
  - alternatively converter type ATM-E1.T50 or ATM-E1.T250, manufacturer ATM Lighting

  The possibility of using of LED modules of own production has been introduced.
  Marking of lighting fixtures have been changed. Documentation has been updated.

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