



KDBEX

EU TYPE EXAMINATION CERTIFICATE

- [1] 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 04ATEX339X **2nd edition**
- [4] Equipment:
Explosion-proof luminaires type EXP 83-...
- [5] Manufacturer:
Remontowa Lighting Technologies S.A.
- [6] Address:
ul. Na Ostrowiu 1, 80-958 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 12.119-4 [T-5164/2]**
- [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;
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 T4 Gb
II 2D Ex tb IIIC T60°C or T65°C IP66/IP67 Db**

KIEROWNIK

Zespołu ds. Bezpieczeństwa Przeciwwybuchowego
Jednostki Oceny Zgodności
GŁÓWNEGO INSTYTUTU GÓRNICTWA –
Państwowego Instytutu Badawczego

mgr inż. Mirosław Krzysoliak

ATEX Certification
Expert



KIEROWNIK

Jednostki Oceny Zgodności
Głównego Instytutu Górnictwa –
Państwowego Instytutu Badawczego

dr inż. Dariusz Stefaniak

Date of issue: 27. 11. 2023

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[15] Description:

Luminaires type EXP 83-... have a body made of steel sheet. The lampshade is made of polycarbonate.

Luminaires have type of explosion protection - increased safety.

The luminaires are made in the following variants:

EXP 83 - MLED 1/2/3/4/5/6 7/8/9 - light source LED

1	2	3	4	5	6	7	8	9
LENGTH	LIGHT SOURCE POWER	EQUIPMENT	CRI	MATERIAL	CABLE ENTRY	VARIANT CABLE GLANDS	MOUNTING	EMERGENCY OPTION
220	125	-	840	-	K	10	W	-
240	150	D0	830	S	KA	11	H	A3/AT
			857	S316	P	13	WN	
					PA	20	N	
					PAK	21		
						23		

EXP 83 - 1/2/3/4/5/6 - Light Source Fluorescent

1	2	3	4	5	6
VARIANTS	MATERIAL	CABLE ENTRY	VARIANT CABLE GLANDS	MOUNTING	EMERGENCY OPTION
2180	-	K	10	W	-
2182	S	KA	11	H	A3/AT
2360	S316	P	13	WN	
2362		PA	20	N	
		PAK	21		
			23		

Luminaires can be equipped with emergency variant (marking code A3 or A1,5) and with built in auto test module (marking code AT).

Inside the luminaires can be built-in following electrical equipment Ex:

Electronic ballasts:

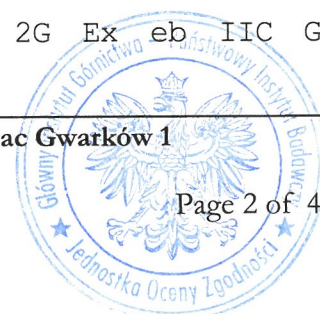
- type HFX 2x18W, HFX 2x36W manufacturer Barel AS marking II 2 G Ex eb mb IIC T4 Gb Presafe 14 ATEX 5355U or
- type HFXE 2x18W, 2x36, HFXE 2x36W manufacturer Barel AS marking II 2 G Ex eb mb IIC T4 Gb, Presafe 14ATEX5355U - variation EXP-83-2...,

Lamps holder:

- type THX manufacturer Barel marking II 2G Ex eb IIC Gb Nemko 07ATEX1273 - variation EXP-83-2...,

Główny Instytut Górniczo - Państwowy Instytut Badawczy, 40-166 Katowice, Plac Gwarków 1
Jednostka Oceny Zgodności, 43-190 Mikołów, ul. Podleska 72

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LED power supplies:

- type HFX LED - variation EXP 83-MLED, manufacturer Barel marking II 2 G Ex eb mb IIC T4 Gb; Presafe 14ATEX5355U,
- type HFXE LED & Battery Ex NiCD 7,2V - variation EXP 83-MLED/A3 manufacturer Barel marking II 2 G Ex eb mb IIC T4 Gb; Presafe 14ATEX5355U,
- type: HFX LED BG2, manufacturer BAREL AS marking II 2G Ex eb mb IIC Gb; ExVeritas 22ATEX1237U - EXP 83-MLED,
- type HFXE LED BG2 & Battery Ex NiCD 7,2V marking II 2G Ex eb mb IIC Gb; ExVeritas 22 ATEX 1237U
- variation EXP 83-MLED240/150/A3...

LED panels/modules:

- type ARC BG5 600 or 1200 manufacturer Barel AS marking II 2G Ex mb IIC Gb; ExVeritas 19 ATEX 0478U,
- type ARC 600... or 1200... manufacturer Barel AS marking II 2G Ex mb IIC Gb, Presafe 15ATEX6296U - variation EXP 83-MLED...

Terminal block:

- type 262-... manufacturer WAGO marking II 2G Ex eb IIC Gb; I M2 Ex eb I Mb; PTB 98ATEX3125U) or type MS(D)B2,5... manufacturer Phoenix-Contact marking II 2G Ex eb IIC Gb; PTB 08ATEX1075U, or MUT 2,5 manufacturer Phoenix-Contact marking SEV 13ATEX0178U or type ZDUB 2,5-2 manufacturer Weidmüller Interface GmbH & Co. KG marking II 2GD Ex eb IIC Gb; DEMKO 16ATEX1808U,

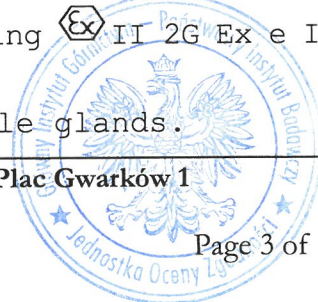
Power switch:

- type 07-1511 manufacturer Bartec marking II 2G Ex db IIC Gb, I M2 Ex db I Mb; EPS 14ATEX1765U,

Cable glands:

- type EMSKE manufacturer WISKA Hoppmann GmbH marking II 2G Ex eb IIC Gb, 2D Ex tb IIIC Db; PTB 04 ATEX 1112X, or type ESKE manufacturer WISKA Hoppmann GmbH marking II 2G Ex eb IIC Gb, 2D Ex tb IIIC Db; PTB 13 ATEX 1015X , or type E1FX5 manufacturer ATEX APPLETON marking II 2G Ex e II; LICE 99 ATEX 6030X.

Luminaries can be equipped with maximum four cable glands.



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Technical parameters:

Variation	EXP 83-2180 EXP 83-2360	EXP 83-2182 EXP 83-2362	EXP 83- MLED220	EXP 83- MLED240
Rated voltage:	220÷250V; 0÷60Hz	110÷127V; 0÷60Hz	110÷254VAC; 50/60Hz ----- 220÷250VDC;	
Light sources:	Fluorescent type LF ø26 2 x 18 W or 2 x 36 W		LED module 25 W	LED module 50 W
Passing cable maximum current:	16A			
Ambient temperature range:	-35°C do +50°C		-35°C do +40°C 0°C do +40°C (ver. A3 with emergency module)	
Degree of protection IP:	IP66 / IP67			

[16] Test Report:

"ATEX assessment report" KDB No 12.119-4

[17] Special conditions of use:

- On the lampshade inscription indicating the security measures to be used during the operation to avoid the risk of ignition caused by static electricity. Details of the procedure are set forth in the instruction manual.

[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;
EN 60079-31:2014

Document history:

- EC Type examination certificate KDB 04ATEX339X of 06.12.2004 with all supplements, initial certification (issue 0).
- EU Type examination certificate KDB 04ATEX339X 1st edition, of 22.07.2016 replaces EU type examination certificate KDB 04ATEX339X 0 edition of 06.12.2023r. Variations EXP 83-MLED have been introduced, technical documentation have been updated.
- EU Type examination certificate KDB 04ATEX339X 2nd edition, of 27.11.2023 replaces EU type examination certificate KDB 04ATEX339X 1st edition of 22.07.2016. Updated list of used components Ex, marking and technical documentation have been updated.

