Physical Technical Testing Institute

Ostrava-Radvanice

(1)

(2)

EC-Type Examination Certificate

Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0347

(4) Equipment or protective system: **Flameproof signal luminary type XHL./JB**

(5) Manufacturer: **Generi s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

04/0347 dated 29. 11. 2004

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 50014 : 1995+A1+A2; EN 50020 : 2002; EN 50281-1-1 : 1999; EN 50303 : 2000

(10) If the sign „X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include following:

I M1 EEx ia I

II 2G D T68°C EEx ia IIC T6

This EC-Type Examination Certificate is valid till: **30. 11. 2009**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.11.2004

Number of pages: 3
Page: 1/3

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(13) **Schedule**

(14) # EC-Type Examination Certificate N° FTZÚ 04 ATEX 0347

(15) Description of Equipment or Protective System:

Flameproof signal luminary type XHL./JB is dedicated to optical indication in intrinsically safe circuits. It is produced in three designs for the nominal voltage of 6, 12 and 24 V AC/DC.

Maximal range of ambient temperature is $-40°C \leq Ta \leq +60°C$ and it must be stated on the label.

Maximal input parameters:

version 6V Ui = 9 V; $L_i = 0$; $C_i = 0$
version 12V Ui = 17 V; $L_i = 0$; $C_i = 0$
version 24V Ui = 28,2 V; $L_i = 0$; $C_i = 0$

(16) Report No.: 04/0347 (25 pages)

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by standard mentioned in (9), according which the product was verified and in manufacturer's instruction for use.

Responsible person:

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.11.2004

Dipl. Ing. Šindler Jaroslav
Head of certification body

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 04 ATEX 0347**

(19) **LIST OF DOCUMENTATION**

1. Technical description	G-3-902828/3 (2 sheets)	11 / 2004
2. Drawings No.:	G-3-902828/3	on 16.11.2004
	G-4960302 (2 sheets)	on 15.11.2004
	G-4960303 (2 sheets)	on 15.11.2004
	G-4960304 (2 sheets)	on 15.11.2004
	G-4-190096/5	on 23.03.2004
	G-4-190096/6	on 23.03.2004
	G-4-190096/7	on 23.03.2004
3. Instruction manual	N740057-ATEX (3 sheets)	on 29.11.2004

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.11.2004

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Physical Technical Testing Institute

Ostrava-Radvanice

(1)

Supplement No. 1 to EC-Type Examination Certificate

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0347

(4) Equipment or protective system: **Flameproof signal luminary type XHL./JB**

(5) Manufacturer: **Generi s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**

(7) This supplement of certificate is valid for:
- application of new standards
- prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0 : 2006; EN 60079-11 : 2007; EN 61241-0 : 2006;

EN 61241-11: 2006; EN 50303 : 2000

(11) Marking of equipment shall contain symbols:

I M1/II 2GD Ex ia iaD I/IIC T6 T68°C

(12) This type examination certificate is valid till: **04. 12. 2014**

Responsible person:

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: 04.12.2009

Number of pages: 2
Page: 1/2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) # Supplement No. 1 to EC-Type Examination Certificate N° FTZÚ 02 ATEX 0001

(15) Description of Equipment or Protective System:

The certified apparatus is manufactured according to the verified documentation shown in the basic certificate and in this Supplement and complies with requirements of upgraded standards listed in (10).

The validity of the certificate is prolonged till 04.12.2014.

Technical data remain unchanged.

(16) Report No. : 04/0347-1 (4 pages)

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

(19) Documentation:

	Date:
1. Manual for use N740057 (3 sheets)	01.12.2009
2. Descriptions G-3-902828/3 (2 sheets)	09.11.2009
3. Drawing No.: G-3-902828/3	09.11.2009

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 04.12.2009

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Physical Technical Testing Institute
Ostrava – Radvanice

(1) # Supplement No. 2 to EC-Type Examination Certificate

(2) **Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0347

(4) Equipment or protective system: **Flameproof signal luminary type XHL../JB**

(5) Manufacturer: **GENERI s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**

(7) This supplement of certificate is valid for:
- application of new standards
- prolongation of certificate validity
- modification of marking

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 (Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0:2012, EN 60079-11:2012; EN 50303:2000

(11) Marking of equipment shall contain symbols:

I M1 Ex ia I Ma

II 2G Ex ia IIC T6 Gb

II 2D Ex ia IIIC T68°C Db

(12) This type examination certificate is valid till: **05.11.2019**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV AO 210 NB 1026

Date of issue: 05.11.2014

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(13) **Schedule**

(14) # Supplement No. 2 to EC-Type Examination Certificate N° FTZÚ 04 ATEX 0347

(15) Description of Equipment or Protective System:

The changes in the equipment have not been made. The apparatus is manufactured according to the verified documentation shown in the basic certificate, the Supplement No. 1 and in this Supplement and complies with requirements of upgraded standards mentioned in clause (10).

The validity of the certificate is prolonged till 05.11.2019.

(16) Report No.: 04/0347-2

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the equipment was verified.

(19) List of Documentation:

Title:	Date:	Pages:
User's manual	21.10.2014	3
G-3-902828/3	20.10.2014	3

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 05.11.2014

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Physical-Technical Testing Institute
Ostrava - Radvanice

(1) Supplementary EU - Type Examination Certificate No.3

(2) **Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 04 ATEX 0347X

(4) Product: **Flameproof signal luminary type XHL../JB**

(5) Manufacturer: **GENERI s.r.o.**

(6) Address: **Uničovská 50, 787 01 Šumperk, Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 04 ATEX 0347 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-11:2012, EN 50303:2000

(11) The marking of the product shall include the following:

I M1 Ex ia I Ma

II 2G Ex ia IIC T6 Gb

II 2D Ex ia IIIC T68°C Db

(12) This certificate is valid till: **30.11.2025**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 16.11.2020

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 04 ATEX 0347X

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Introduction of special conditions of use.
- Evaluation according to the newest standards.
- Prolongation of certificate validity.

The subject of this supplementary certificate is evaluation of product according actual valid standards and prolongation of certificate validity. There were not made constructional changes on the product. The list of actualized documents is listed in clause (19) of this supplementary certificate. There were introduced specific conditions of use and symbol "X" was added to certificate number.

Types of product:
XHL x y /JB
x ... 6, 12, 24 – voltage AC/DC (V)
y ... R, Y, G, B, W – colour

Technical parameters: remain unchanged

Ambient temperature: from -40°C to +60°C

Degree of protection: IP20

Intrinsically safe parameters:
XHL6 ./JB : Ui = 6 V; Li = 0; Ci = 0
XHL12 ./JB : Ui = 17 V; Li = 0; Ci = 0
XHL24 ./JB : Ui = 28,2 V; Li = 0; Ci = 0

(16) Report Number.: 04/0347/3

(17) Specific Conditions of Use:

1. The product have to be placed into enclosure with minimal degree of protection IP54 when is used into hazardous area group I.
2. When using the product in areas with a risk of explosion of zones 22 and 21, it is necessary to carry out the installation in such a way that the risk of electrostatic discharges is minimized. Cleaning have to be performed only with a damp cloth. The product have not to be exposed to highly efficient charging mechanisms, such as the pneumatic conveying of dust, or the interior of paint booths for powder coatings.

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 16.11.2020

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 04 ATEX 0347X

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
N740057	3	2	23.11.2020	User manual
G-4-960302	1.0	2	15.11.2004	Drawings for XHL06./JB
G-4-960303	1.0	2	15.11.2004	Drawings for XHL12./JB
G-4-960304	1.0	2	15.11.2004	Drawings for XHL24./JB
G-3-902828/5-P1	-	1	23.11.2020	Drawing of PCB
G-3-902828/5	-	3	23.11.2020	Technical description

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026 FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV

Date of issue: 16.11.2020

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