



Type Examination Certificate

(1)

(2)

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

(3) Type Examination Certificate number:

FTZÚ 20 ATEX 0093X

(4) Product: **Headlight luminaire type GREY-N-LED**

(5) Manufacturer: **VYRTYCH a.s**

(6) Address: **Židněves 116, 294 06 Březno, Czech Republic**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute certifies that this product 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

The examination and test results are recorded in confidential Report number:

20/0093 dated 21.01.2021

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

EN IEC 60079-0:2018, EN 60079-15:2017, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) This type examination certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.

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

 **II 3G Ex nR IIC T6 Gc**
II 3D Ex tc IIIC T85°C Dc

This certificate is valid till: **31.01.2026**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.01.2021

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Physical-Technical Testing Institute
Ostrava - Radvanice

Schedule

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(14) **Type Examination Certificate No. FTZÚ 20 ATEX 0093X**

(15) Description of Product:

The Headlight luminaire type GREY-N-LED consists of four main parts: alloy body with sealing, alloy optical cover, assembly metal plate with electrical components and reflector with LED module. Sight glass is glued in the optical cover. The body is bolted by eight screws M5. Fixture elements and Ex cable glands are parts of luminaire.

Basic technical parameters:

Nominal voltage Un: 100V - 240V; 50/60 Hz; 220V - 240V; 50/60Hz.

Maximum power: 210 W

Degree of protection: IP66

TYPE MARKING OF LUMINAIRES:

GREY-N-LED-S*/AS*/H*/AH*-X*YYY*-4K*

S* optics with radiation characteristics – symmetric wide-angle

AS* optics with radiation characteristics – asymmetric wide-angle

H* optics with radiation characteristics – symmetric narrow-angle

AH* optics with radiation characteristics – asymmetric narrow-angle

X* marking of luminous flux LED modules 17000/18500/21000/24500/29500 (lumen)

4K* colour temperature 4000K

(16) Report Number.: 20/0093

(17) Specific Conditions of Use:

1. Ambient temperature range: -40°C ≤ Tamb ≤ +60°C – GREY-N-LED-17000-4K
-40°C ≤ Tamb ≤ +55°C – GREY-N-LED-18500/24500-4K
-40°C ≤ Tamb ≤ +50°C – GREY-N-LED-21000-4K
-40°C ≤ Tamb ≤ +45°C – GREY-N-LED-29500-4K
-40°C ≤ Tamb ≤ +60°C – GREY-N-LED-18500/21000-T60-4K
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging." - see Technical conditions of the installation.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. The Technical conditions of the installation must be complied

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Date of issue: 22.01.2021

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This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
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Physical-Technical Testing Institute
Ostrava - Radvanice

Schedule

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Type Examination Certificate No. FTZÚ 20 ATEX 0093X

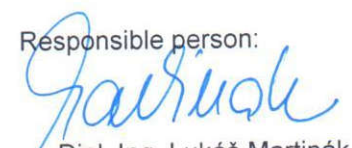
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	00	4	10.11.2020	Technical description
--	01	3	03.08.2020	Technical condition of the installation
Assembly	--	1	10.11.2020	Drawing
Labels	01	2	12.11.2020	Drawing

Responsible person:


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Date of issue: 22.01.2021

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(1) **Supplementary Type Examination Certificate No. 1**

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

(3) Type Examination Examination Certificate number:

FTZÚ 20 ATEX 0093X

(4) Product: **Headlight luminaire type GREY-N-LED**

(5) Manufacturer: **VYRTYCH a.s**

(6) Address: **Židněves 116, 294 06 Březno, Czech Republic**

(7) This supplementary certificate extends Type Examination Certificate No. FTZÚ 20 ATEX 0093X 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 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 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

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

EN IEC 60079-0:2018, EN 60079-15:2017, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

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



**II 3G Ex nR IIC T6 Gc
II 3D Ex tc IIIC T85°C Dc**

(12) This certificate is valid till: **31.01.2026**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.03.2021

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Physical-Technical Testing Institute
Ostrava - Radvanice

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Schedule

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**Supplementary Type Examination Certificate No. 1
to FTZÚ 20 ATEX 0093X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.

This supplementary certificate describes a new type of driver with max. power 225 W which is used in type of luminaire GREY-N- LED-29500-4K.

Design and other technical parameters remain unchanged.

(16) Report Number: 20/0093/1

(17) Specific Conditions of Use:

None additional to those listed previously.

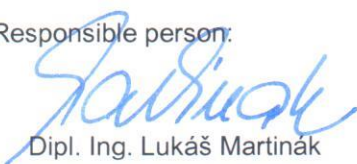
(18) Essential Health and Safety Requirements:

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:
--	01	4	09.03.2021	Technical description
--	01	3	03.08.2020	Technical conditions of the installation

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.03.2021

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