

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Component for use as a part of an Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. EU-Type Examination Certificate Number: **EESF 19 ATEX 026U**
4. Product: **Control, indication and sound alarm components: control buttons, indicating lamps, switches, potentiometers, sirens**

Certified types: **KG..., LG..., PG..., PTC..., PSG...**
5. Manufacturer: **ZAVOD GORELTEX Co. Ltd.**
6. Address: **195176, Saint Petersburg, Revolutsii road, 18, lit. A**

Russian Federation
7. This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Expert Services Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in confidential report No. RU/CCVE/ExTR18.0014/00.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012/A11:2013	EN 60079-1:2014	EN IEC 60079-7:2015/A1:2018
EN 60079-18:2015/A1:2017	EN 60079-31:2014	
10. The sign "U" after the certificate number indicates that this certificate is a component certificate and it may be used as a basis for certification of an equipment or a protective system.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2 G Ex db eb IIC Gb
II 2 G Ex eb mb IIC Gb
II 2 G Ex db eb mb IIC Gb
II 2 D Ex tb IIIC Db
IP54/IP66/IP67

Espoo, 14.10.2019
Eurofins Expert Services Oy

Tony Myllylä
 Expert

Ilkka Riihimäki
 Expert

This document is digitally signed.

13. **Schedule**14. **EU-Type Examination Certificate EESF 19 ATEX 026U**15. **Description of Product**

Ex Component(s) covered by this certificate are as follows:

Control, indication and sound alarm components: KG... control buttons, LG... indicating lamps, PG... switches, PTC... potentiometers, PSG... sirens are intended for mounting on equipment.

The detailed description is given in the Annex to this certificate.

16. **Report Number**

RU/CCVE/ExTR18.0014/00

17. **Schedule of Limitations**

1. British Standard Pipe Parallel thread (G) is not applicable for explosion protection type "flameproof enclosures "d".

2. Installation and mounting of control, indication and sound alarm components: KG... control buttons, LG... indicating lamps, PG... switches, PTC... potentiometers, PSG... sirens shall be in accordance with the operation, safety and maintenance manual LGSA.1.018.2018.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report RU/CCVE/ExTR18.0014/00.



Annex

KG... control buttons are pressing or rotating actuating elements. Indicator button is a combined actuating and signaling element. Buttons can be provided with a key for locking. All control buttons are equipped with contact blocks provided by the manufacturer.

PG... switches are rotating actuating elements. All switches are equipped with contact blocks provided by the manufacturer.

Degree of protection (EN 60529): IP54/IP66/IP67



Service temperature (T_s): minus 40 °C...+85 °C

Ex marking:  II 2 G Ex db eb IIC Gb,  II 2 D Ex tb IIIC Db

LG... indicating lamps are used for indication. All indicating lamps are equipped with contact blocks provided by the manufacturer.

Degree of protection (EN 60529): IP54/IP66/IP67



Service temperature (T_s): minus 55 °C...+85 °C

Ex marking:  II 2 G Ex db eb IIC Gb,  II 2 D Ex tb IIIC Db

PTC... potentiometers are used to control current and voltage in electrical circuits by obtaining required resistance value. All potentiometers are applied with contact blocks provided by the manufacturer.

Degree of protection (EN 60529): IP54/IP66/IP67

Service temperature (T_s): minus 40 °C...+85 °C



Ex marking:  II 2 G Ex db eb IIC Gb,  II 2 D Ex tb IIIC Db



PSG... sound alarm components are intended for audible signaling.

PSGV... sound alarm components are intended for installation into any certified enclosure with type of protection "flameproof enclosure "d". Sound alarm components are installed into equipment by means of threaded joint. Threaded joint is in accordance with the requirements of EN 60079-1:2014.

Degree of protection (EN 60529): IP54/IP66/IP67

Service temperature (T_s): minus 60 °C...+85 °C

Ex marking PSGV...:  II 2 G Ex db eb mb IIC Gb,  II 2 D Ex tb IIIC Db

Ex marking PGSE...:  II 2 G Ex eb mb IIC Gb,  II 2 D Ex tb IIIC Db

Main technical characteristics and structure of designation are given in the operation, safety and maintenance manual LGSA.1.018.2018.

Types of devices:

Lamp type:	Button type:	Switch type:	Siren type:	Potentiometer type:
LGE03...	KGE01...	PGE...	PSGE01...	PTCE1...
	KGE02...	PGEZ...	PSGV01...	PTCE2...
	KGE06...	PGEPKL...	PSGV02...	PTCE5...
	KGE07...			PTCE10...
	KGE08...			
	KGE09...			
	KGE10...			