



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx CCVE 18.0015U

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-24)

Status: **Current**

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Date of Issue: **2019-01-24**

Applicant: **"ZAVOD GORELTEX" Co. Ltd.**  
"ZAVOD GORELTEX" Co. Ltd.  
195176, Saint Petersburg, Revolutsii road, 18, lit. A  
**Russian Federation**

Ex Component: **Control, indication and sound alarm components: KG... control buttons, LG... indicating lamps, PG... switches, PTC... potentiometers, PSG... sirens**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **flameproof enclosures "d", increased safety "e", encapsulation "m", dust ignition protection by enclosure "t"**

Marking:

Ex db eb IIC Gb  
Ex eb mb IIC Gb  
Ex db eb mb IIC Gb  
Ex tb IIIC Db  
IP54/IP66/IP67

Approved for issue on behalf of the IECEx  
Certification Body:

Alexander Zalogin

Position:

Head of CB CCVE

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**NANIO CCVE**  
Zavod ECOMASH, VUGI Settlement  
Lyubertsy, Moscow region  
140004  
Russian Federation





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Manufacturer: "ZAVOD GORELTEX" Co. Ltd.

193149, Novosaratovka township area, liter A, Vsevolzhsky district, Leningrad region  
Russian Federation

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2014</b> Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in*

Test Report:

[RU/CCVE/ExTR18.0014/00](#)

Quality Assessment Report:

[RU/CCVE/QAR16.0004/00](#)

[RU/CCVE/QAR16.0004/01](#)



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## Schedule

**Ex Component(s) covered by this certificate is described below:**

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.

### 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.

### Annex:

[Annex\\_IECEX\\_18.0015U\\_0.pdf](#)



**Annex to IECEx CCVE 18.0015U**

**Issue No. 0**

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 (IEC 60529): IP54/IP66/IP67

Service temperature (T<sub>s</sub>): minus 40 °C...+85 °C

Ex marking: Ex db eb IIC Gb, 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 (IEC 60529): IP54/IP66/IP67

Service temperature (T<sub>s</sub>): minus 55 °C...+85 °C

Ex marking: Ex db eb IIC Gb, 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 (IEC 60529): IP54/IP66/IP67

Service temperature (T<sub>s</sub>): minus 40 °C...+85 °C

Ex marking: Ex db eb IIC Gb, 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 IEC 60079-1:2014.

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

Service temperature (T<sub>s</sub>): minus 60 °C...+85 °C

Ex marking: PSGV...: Ex db eb mb IIC Gb, Ex tb IIIC Db

PSGE...: Ex eb mb IIC Gb, 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...			