



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

Certificate No.: IECEx CCVE 18.0011X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-24)

Status: **Current**

Page 1 of 3

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

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

Equipment: **RG... series sockets, VG... series plugs, DVG... series limit switches**

Optional accessory:

Type of Protection: **Flameproof enclosures "d" and dust ignition protection by enclosure "t"**

Marking:

Ex db IIC T6...T5 Gb

Ex tb IIIC T60°C...T100°C Db

IP66

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





IECEX Certificate of Conformity

Certificate No: IECEX CCVE 18.0011X

Issue No: 0

Date of Issue: 2019-01-24

Page 2 of 3

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 products 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 apparatus 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:

| | |
|---|--|
| IEC 60079-0 : 2011 Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-1 : 2014-06 Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2013 Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |

*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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[RU/CCVE/ExTR18.0012/00](#)

Quality Assessment Report:

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

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



IECEX Certificate of Conformity

Certificate No: IECEX CCVE 18.0011X

Issue No: 0

Date of Issue: 2019-01-24

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

RG... series sockets and VG... series plugs are intended for connection of stationary and portable equipment.

RG... series socket is a composite product, the elements of which are the socket and an enclosure with a cover. A switch and feeding contacts are installed in the enclosure. VG... series plug is an enclosure with contacts and threaded entry for cable gland installation.

Power is supplied to contacts of RG... series sockets by means of VG... series plug connection and rotation it to 45°. This action closes internal switch which supplies power to the contacts.

DVG... series limit switches are intended for switching electric control, signaling circuits and for control of position of moving parts of mechanisms under the impact of the controlling stops at the defined travel points of the controlled object.

Limit switches are cylindrical enclosures with a bushing with rod from one side and threaded entry for cable gland installation from the other side. The rod is used for activation of the contact block installed inside the enclosure and is activated by the various types of lever units fastened to the enclosure of limit switches.

The enclosures of RG... series sockets, VG... series plugs and DVG... series limit switches are made of aluminum alloy. Grounding elements are made of stainless steel.

Additional information is given in the Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The cable glands and other devices which can be mounted on the sockets or plugs shall be subject to separate certification as Ex-equipment and shall not invalidate the type of protection and degree of protection IP and correspond to the connecting thread, size and type of the inserted cable. To guarantee the degree of protection IP66, the installation of the threaded coupling accessories shall be performed in accordance with the installation instructions of these accessories. Unused holes may be closed with certified blanking elements.

2. Installation and mounting of connectors sockets and plugs shall be in accordance with the operation, safety and maintenance manual LGSA.1.020.2018.

Annex:

[Annex IECEX_CCVE_18.0011X.pdf](#)

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



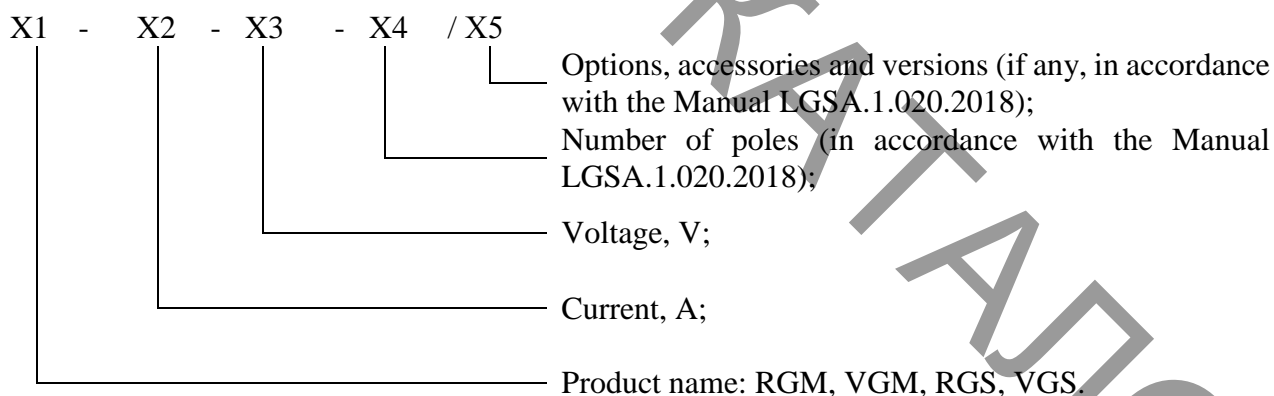
Annex to IECEx CCVE 18.0011X

Issue No. 0

Technical characteristics

| Type of product | Maximum voltage, V | Alternating current frequency, Hz | Maximum current, A | Ambient temperature range, °C | Temperature class | Maximum surface temperature, °C | Degree of protection (IEC 60529) |
|------------------------|--------------------|-----------------------------------|--------------------|-------------------------------|-------------------|---------------------------------|----------------------------------|
| RGM-16... VGM-16... | 415 AC/DC | 50/60 | 16 | -60 ... +40 | T6 | 60 | IP66 |
| | | | | -60 ... +50 | T6 | 60 | |
| | | | | -60 ... +60 | T6 | 70 | |
| | | | | -60 ... +85 | T5 | 95 | |
| RGM-32... VGM-32... | 415 AC/DC | | 32 | -60 ... +40 | T6 | 60 | |
| | | | | -60 ... +50 | T6 | 65 | |
| | | | | -60 ... +60 | T6 | 75 | |
| | | | | -60 ... +85 | T5 | 100 | |
| RGS... VGS... | 690 AC/DC | 63 | -60 ... +40 | T6 | 60 | | |
| | | | -60 ... +50 | T6 | 65 | | |
| | | | -60 ... +60 | T6 | 75 | | |
| | | | -60 ... +85 | T5 | 100 | | |

Structure of designation of RG... series sockets and VG... series plug

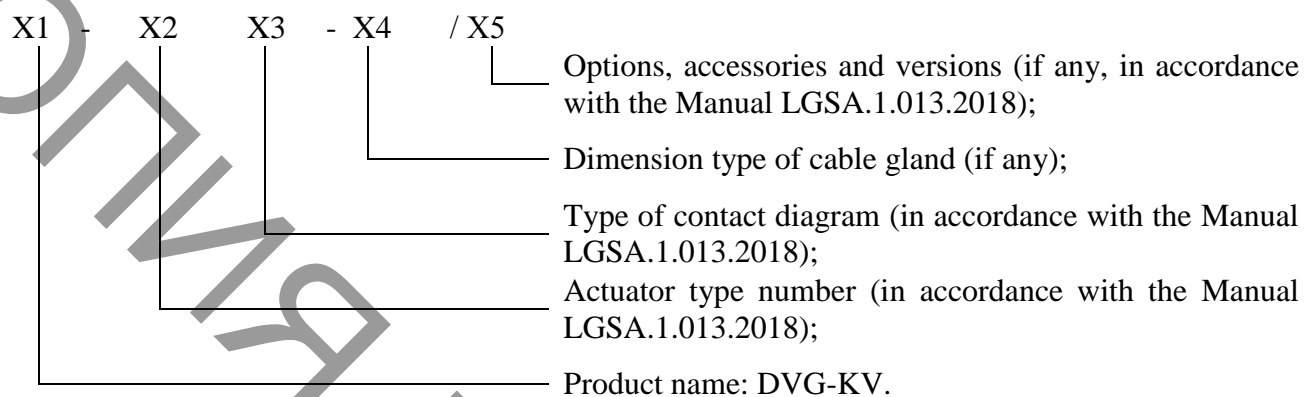


The equipment can have additional designation “QFM...” or “UVG...” in accordance with “ZAVOD GORELTEX” Co. Ltd. classifier.

Technical characteristics

| Type of product | Maximum voltage, V | Alternating current frequency, Hz | Maximum current, A | Ambient temperature range, °C | Temperature class | Maximum surface temperature, °C | Degree of protection (IEC 60529) |
|-----------------|--------------------|-----------------------------------|--------------------|-------------------------------|-------------------|---------------------------------|----------------------------------|
| DVG... | 400 AC/ 250 DC | 50/60 | 10 | -60 ... +60 | T6 | 70 | IP66 |

Structure of designation of DVG... series limit switches



The equipment can have additional designation “QFM...” or “UVG...” in accordance with “ZAVOD GORELTEX” Co. Ltd. classifier.