



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 18.0010X

Issue No: 0

Certificate history:

Issue No. 0 (2018-12-28)

Status: **Current**

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Date of Issue: **2018-12-28**

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

Equipment: **Explosion-proof light fixtures series SG...**

Optional accessory:

Type of Protection: **Flameproof enclosure "d", protection by enclosure "t"**

Marking:

Ex db IIC T6...T3 Gb and/or
Ex tb IIIC T51°C ...T158°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





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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 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/ExTR18.0011/00](#)

Quality Assessment Report:

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

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The light fixture consists of a flameproof enclosure made of aluminum alloy with a light-transmitting globe made of tempered glass. A metal grid can be installed on the light-transmitting globe. The grid is not the mean of explosion protection. Inlet compartment with elements for mouting of the light fixture to the support and with threaded entries for cable glands installation is provided on the enclosure.

SGJ... series light fixtures are intended for lighting of rooms, open manufacturing sites and other facilities where lighting is required.

SGA... series light fixtures are intended for application as signal lights (obstruction lights) at the facilities where light signaling and indication is required.

Depending on the light source, the following can be included into the light fixture:

- LED unit;
- E27, E40 socket (for light source installation).

Degree of protection (IEC 60529): IP66

Ambient temperature range, °C: minus 60...+60

The list of considered models of SGA... and SGJ... series light fixtures is specified in the annex to this certification.

The temperature class is a function of the enclosure size, of the maximum power and ambient temperature as specified in the tables 1, 2, 3, 4 and 5 given in the annex to this Certificate and in the manufacturer's documentation.

Supply voltage for:

SGJ01... series - 10...36V DC; 110...230V AC;

SGA01... series - 10...36V DC; 110...230V AC;

SGA02... series - 12...230V AC/DC.

Different types of light sources for DC and AC are used. The detailed description is given in the Operating, safety and maintenance manual LGSA.1.006.2018.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The temperature under rated conditions can be higher than 70 °C at the entry point or 80 °C at the branching point of the conductors. The information to provide guidance to the user on the proper selection of cable and cable gland or conductors in conduit is marked on the equipment and given in the Operating, safety and maintenance manual LGSA.1.006.2018.
2. Cable glands and plugs which can be installed are subject to a separate certification as Ex-equipment and they shall not invalidate the type of protection and IP degree of protection and shall correspond to connecting thread, its size and type of inserted cable.
3. Unused entries shall be plugged with certified plugs which do not invalidate the type of explosion protection and IP degree of protection of the light fixture.



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Annex:

[IECEX 18.0010_Annex.pdf](#)

КОПИЯ ДЛЯ КАТАЛОГА



Annex to IECEx CCVE 18.0010X

Issue No. 0

Table 1. Technical characteristics of SGJ01... series light fixtures with LED unit.

Model	Maximum luminous flux of the light source, lm	Installed power Pinst, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
			Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	
SGJ01-1240S	1240	9,6	T6	52	T6	62	T6	72	SGJ1.1
SGJ01-2480S	2480	18,5	T6	58	T6	68	T6	78	SGJ1.1
SGJ01-3720S	3720	28,5	T6	66	T6	76	T5	86	SGJ1.1
SGJ01-4960S	4960	40,7	T6	60	T6	70	T6	80	SGJ1.2
SGJ01-6200S	6200	48	T6	64	T6	74	T6	84	SGJ1.2
SGJ01-7440S	7440	57	T6	66	T6	76	T5	86	SGJ1.2
SGJ01-11160S	11160	85,5	T6	75	T5	85	T5	95	SGJ1.2

Table 2. Technical characteristics of SGJ01... series light fixtures for various types of lamps with E27 and E40 sockets.

Model	Maximum lamp power*, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
		Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	
SGJ01-XINC	75	T6	82	T5	92	T4	102	SGJ1.1
SGJ01-XINC	150	T5	96	T4	106	T4	116	SGJ1.1
SGJ01-XINC	200	T4	129	T3	139	T3	149	SGJ1.1
SGJ01-XINC	75	T6	73	T6	83	T5	93	SGJ1.2
SGJ01-XINC	95	T6	77	T5	87	T5	97	SGJ1.2
SGJ01-XINC	200	T5	96	T4	106	T4	116	SGJ1.2
SGJ01-XINC	300	T3	138	T3	148	T3	158	SGJ1.2
SGJ01-XAI	70	T6	84	T5	94	T4	104	SGJ1.1
SGJ01-XAI	150	T4	105	T4	115	T4	125	SGJ1.1
SGJ01-XAI	205	T4	127	T3	137	T3	147	SGJ1.1
SGJ01-XAI	100	T6	79	T5	89	T5	99	SGJ1.2
SGJ01-XAI	205	T4	109	T4	119	T4	129	SGJ1.2
SGJ01-XEI	25	T6	70	T6	80	T5	90	SGJ1.1
SGJ01-XEI	25	T6	59	T6	69	T6	79	SGJ1.2
SGJ01-XEI	55	T6	68	T6	78	T5	88	SGJ1.2
SGJ01-XFIL	23	T6	57	T6	67	T6	77	SGJ1.2
SGJ01-XLED	15	T6	59	T6	69	T6	79	SGJ1.1

Model	Maximum lamp power*, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
		Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	
SGJ01-XLED	20	T6	67	T6	77	T5	87	SGJ1.1
SGJ01-XLED	20	T6	57	T6	67	T6	77	SGJ1.2
SGJ01-XLED	30	T6	64	T6	74	T6	84	SGJ1.2
SGJ01-XMix	160	T4	111	T4	121	T4	131	SGJ1.2

NOTE:

Where X is lamp's power.

Lamp types:

INC – incandescent lamp;

FIL – fluorescent induction lamp;

Al – halogen lamp;

LED – LED lamp;

El – compact fluorescent lamp;

Mix – mixed light instant start lamp.

*structure of designation of light fixtures includes actual power of lamps which does not exceed indicated maximum value depending on operating temperature and temperature class.

Table 3. Technical characteristics of SGJ01... series light fixtures for a xenon lamp.

Model	Maximum lamp power*, J	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
		Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	
SGJ01-XK	16	T6	51	T6	61	T6	71	SGJ1.2

NOTE:

Where X is lamp's power.

Lamp types: K – Xenon lamp.

*structure of designation of light fixtures includes actual power of lamps which does not exceed indicated maximum value depending on operating temperature and temperature class.

Table 4. Technical characteristics of SGA01... series light fixtures.

Model	Maximum lamp power*, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
		Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	Temperature class	Temperature for dust atmosphere, $^{\circ}\text{C}$	
SGA01-S	20	T6	57	T6	67	T6	77	SGJ1.1
	40	T6	69	T6	79	T5	89	SGJ1.2

*structure of designation of light fixtures includes actual power of lamps which does not exceed indicated maximum value depending on operating temperature and temperature class.

Table 5. Technical characteristics of SGA02... series light fixtures.

Model	Maximum lamp power*, W	$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		Type of enclosure
		Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	
SGA02-SC	14	T6	52	T6	62	T6	72	SGJ1.1 SGJ1.2

*structure of designation of light fixtures includes actual power of lamps which does not exceed indicated maximum value depending on operating temperature and temperature class.

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