



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: **IECEX TPS 19.0039X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2020-04-23
Applicant: **Warom Technology Incorporated Company**
No.555, Baoqian Road, Jiading District, Shanghai, 201808
China
Equipment: **Explosion-proof overflow electrostatic grounding control system**
Optional accessory: BXCQ-YJC, BXCQ-YC, BXCQ-JC
Type of Protection: **Protection by flameproof enclosure "db", intrinsic safety "ia", dust ignition protection by enclosure "tb"**
Marking: Ex db ia IIB+H₂ T6 Gb
Ex ia tb IIIC T80°C Db

Approved for issue on behalf of the IECEX
Certification Body:

Ing. Kristof De Gersem, MSc.

Position:

Technical Certifier

Signature:
(for printed version)

Date:

2020-04-23

1. This certificate and schedule may only be reproduced in full.
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TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 19.0039X** Page 2 of 4

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Manufacturer: **Warom Technology Incorporated Company**
No.555, Baoqian Road, Jiading District, Shanghai, 201808
China

Additional manufacturing locations: **Warom Technology Mena Fzco**
Plot No.S31223, Jebel Ali Free Zone
Dubai 263667
United Arab Emirates

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[GB/EXV/ExTR20.0033/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/09](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 19.0039X**

Page 3 of 4

Date of issue: 2020-04-23

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BXCQ series explosion-proof overflow electrostatic grounding control system is suitable for Group II (electrical equipment for explosive gas environment other than coal mines) IIA, IIB, and hydrogen for Zone 1 or Zone 2 of T1... T6 gas explosive atmosphere and Zone 21 and Zone 22 combustible dust explosive atmosphere.

The equipment consists a flameproof body, six cable glands, a homing plate, an electrostatic earthing clamp (for BXCQ-YJC and BXCQ-JC) and an overflow sensing rod (for BXCQ-YJC and BXCQ-YC). The homing plate and electrostatic earthing clamp are earthing connections. The overflow sensing rod is an intrinsic safety component.

Model designation:

BXCQ-□

1 2

1 BXCQ series explosion-proof overflow electrostatic grounding control system

2. YJC: Overflow electrostatic grounding control system

YC: Overflow control system

JC: Electrostatic grounding control system

Overflow control system is an Ex "ia" sensing rod. This is a Gb/Db equipment, it shall not be used in Zone 0 or Zone 20.

Electrostatic grounding system is a plier for earthing.

Technical data:

Type	Operating voltage	Operating current	Response time	Degree of protection	Sensor resistance	Ambient temperature
BXCQ-YJC	100-250Va.c. 220-240Va.c. 50/60Hz 24Vd.c.	<20mA	<1s	IP66 (according to IEC 60079-0)	<10Ω	-50°C to +60°C
BXCQ-YC					-	
BXCQ-JC					<10Ω	-55°C to +60°C

Warning label:

WARNING – DO NOT OPEN WHEN ENERGIZED

CAUTION: USE FASTENERS WITH YIELD STRESS ≥450MPa

THE SPECIFIC THREAD TYPE AND SIZE OF ENTRY: M20×1.5 OR NPT1/2

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature: -50°C to +60°C for BXCQ-YJC and BXCQ-YC, -55°C to +60°C for BXCQ-JC.

2. Repair of the flamepaths is not intended. Repair in compliance with the values in IEC 60079-1 is not accepted.

3. The installation must be installed according the requirements of IEC 60079-14: latest version (or its National equivalent standard).

4. The cable entry holes have to be connected by means of suitable cable entry device and which are covered by a separate IECEx CoC.

5. This is a Gb/Db equipment, it shall not be used in Zone 0 or Zone 20.



IECEx Certificate of Conformity

Certificate No.: **IECEx TPS 19.0039X**

Page 4 of 4

Date of issue: 2020-04-23

Issue No: 0

Equipment (continued):

Routine tests:

The correct operation of each component of each completed barrier shall be checked.

The resistance of each fuse shall be checked.

- 216-200: 3.35Ω
- 216-315: 1.85Ω
- 216-160: 5.349Ω

Each diodes shall be checked.

a) the voltage across the diodes shall be measured:

- 1N5342B: 6.8V
- 1N5340B: 6.0V
- 1N5350B: 13V

b) subject each diode to a temperature of 150 °C for 2 h;

c) subject each diode to the pulse current test;

d) the voltage across the diodes shall be measured again:

- 1N5342B: 6.8V
- 1N5340B: 6.0V
- 1N5350B: 13V

Routine test for transformer shall be performed according to IEC 60079-11.