



# 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](http://www.iecex.com)

Certificate No.: **IECEX CNEX 19.0015X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-07-25

Applicant: **Warom Technology Incorporated Company**  
555 Baoqian Road, Jiading, Shanghai  
China

Equipment: **Explosion-proof plug and sockets model BCZ85-././ series**

Optional accessory:

Type of Protection: **Ex db, tb**

Marking: Ex db IIC T6 Gb  
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Hou Yandong**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

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Certificate issued by:

**CNEX-Global B.V.**  
Utrechtseweg 310-B38  
6812AR, Arnhem  
Netherlands





# IECEX Certificate of Conformity

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Date of Issue: 2019-07-25 Page 2 of 3  
Manufacturer: **Warom Technology Incorporated Company**  
555 Baoqian Road, Jiading, Shanghai  
China

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:

<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> 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:

[NL/CNEX/ExTR19.0015/00](#)

Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The explosion-proof plug and socket model BCZ85-././ series consist of a plug and a socket in type of explosion protection 'db' for use in explosive gas atmospheres, and in type of explosion protection 'tb' for use in explosive dust atmospheres. The plug and sockets are mechanically/electrically interlocked preventing the separation of the plug and socket when the contacts are energized. The enclosures of the plug and the sockets are made of die-casted material ENAC-ALSi12(b) (ZL102). The plug and the sockets are provided with cable entry openings.

For nomenclature and other information, see the Annex to this certificate.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is limited to -60 °C...+60 °C.

The width of flameproof joint is more than the minimum values specified in IEC 60079-1 standard. If needed, repair of the flameproof joints must only be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 4 of IEC 60079-1:2014.

Before application, separate IECEx certified Ex db IIC Gb or Ex tb IIIC Db IP66 (as applicable) cable glands and stopping plugs must be applied, rated minimum IP66, suitable for the conditions of use and correctly installed.

Only use cables suitable for a service temperature greater than 90 °C.

The enclosure construction contains non-metallic parts with a potential electrostatic charging hazard. See manufacturer's Instructions

### Annex:

[P19039IA-CCA certificate IECEX CNEX19.0015X Annex.pdf](#)



## Annex to Certificate IECEx CNEX 19.0015X Issue 0

Equipment or Protective System: **Explosion-proof Plug and Socket model BCZ85-././ series**

Manufacturer: **Warom Technology Incorporated Company**

Address: **No. 555#, Baoqian Road, Jiading, Shanghai, P.R. China**

### Nomenclature for model BCZ85-a/b/c

BCZ	-	Explosion-proof plug and sockets
85	-	Design No.
a	-	Rated current (10 A, 16 A, 20 A, 32 A)
b	-	Rated voltage 690 = 600...690 VAC, 347/600...400/690 VAC 500 = 480...500 VAC, 277/480...288/500 VAC 415 = 380...415 VAC, 200/346...240/415 VAC 250 = 200...250 VAC, 120/208...144/250 VAC 130 = 100...130 VAC, 57/100...75/130 VAC 48 = 12...48 VAC/DC 250DC = 50...250 VDC
c	-	Pole number (2P = 2P, 3P = 2P+PE, 4P = 3P+PE, 5P = 3P+N+PE)

Note: 12...48 VAC/DC and 50...250 VDC are only for BCZ85/10././ and BCZ85-16././

### Descriptive Documents:

Detailed in the Test Report Cover document. (ref. CQST/ExTR1907G006)

### Mounting Instructions:

See manufacturer's instructions.

### Installation Instructions:

See manufacturer's instructions.

### Routine tests:

Detailed in the Test Report Cover document. (ref. CQST/ExTR1907G006).

### Additional Information:

The enclosures of the explosion-proof plug and socket model BCZ85-././ series successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

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Certification Body: CNEX-Global B.V., Utrechtseweg 310-B38, 6812 AR, Arnhem, the Netherlands

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## Annex to Certificate IECEx CNEX 19.0015X Issue 0

Electrical data:

Type	Rated voltage (V)	Pole number	Rated current (A)	Ex-marking	Cable entry thread
BCZ85-10/□/□ or BCZ85-16/□/□	12...48 VAC/DC 50...250 VDC	2P	10 or 16	Ex db IIC T6 Gb Ex tb IIIC T80°C Db IP66	M25×1.5, NPT3/4 "
	12...48 VAC/DC 50...250 VDC 100~130V AC 200~250V AC	3P:2P+PE			
	100~130V AC 200~250V AC 380~415V AC 480~500V AC 600~690V AC	4P:3P+PE			
	57/100~75/130V AC 120/208~144/250V AC 200/346~240/415V AC 277/480~288/500V AC 347/600~400/690V AC	5P:3P+N+PE			
BCZ85-20/□/□ or BCZ85-32/□/□	200~250V AC	3P:2P+PE	20 or 32		M32×1.5, NPT1 "
	200~250V AC 380~415V AC 480~500V AC 600~690V AC	4P:3P+PE			
	120/208~144/250V AC 200/346~240/415V AC 277/480~288/500V AC 347/600~400/690V AC	5P:3P+N+PE			

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