



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 CNEX 21.0004X	Page 1 of 5	<u>Certificate history:</u> Issue 0 (2021-05-10)
Status:	Current	Issue No: 1	
Date of Issue:	2023-11-16		
Applicant:	WAROM TECHNOLOGY INCORPORATED COMPANY 555 Baoqian Road, Jiading District, Shanghai, 201808 China		
Equipment:	Explosion-proof Plug and Socket models BCZ8060-././ series		
Optional accessory:			
Type of Protection:	Ex db eb, Ex tb		
Marking:	Ex db eb IIC T6...T4 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:
(for printed version)

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Certificate issued by:

CNEX-Global B.V.
Utrechtseweg 310-B42,
6812 AR ARNHEM
Netherlands





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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
555 Baoqian Road, Jiading District, Shanghai, 201808
China

Manufacturing locations: **WAROM TECHNOLOGY INCORPORATED COMPANY**
555 Baoqian Road, Jiading District, Shanghai, 201808
China

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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

[NL/CNEX/ExTR21.0004/00](#)

[NL/CNEX/ExTR21.0004/01](#)

Quality Assessment Reports:

[CN/CQM/QAR07.0003/10](#)

[CN/CQM/QAR07.0003/11](#)

[CN/CQM/QAR07.0003/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The explosion-proof plug and socket BCZ8060-../. series consist of a plug and a socket in type of explosion protection increased safety 'eb', including a switch in type of explosion protection flameproof enclosure 'db', for use in explosive gas atmospheres. They are also constructed 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 socket consists of the enclosure, flameproof switch, socket for inserting, terminals for cable connections, mechanical interlock mechanism and 2 cable gland openings. The plug consists of the inserting rod which is corresponding to the enclosure and socket, bracket of inserting rod, wiring bracket and integral cable gland. For BCZ8060-10, BCZ8060-16, BCZ8060-20, BCZ8060-32 the enclosure of the plugs is made of antistatic PA66 polyamide, and the enclosure of the sockets is made of antistatic PC polycarbonate. For BCZ8060-50, BCZ8060-60, BCZ8060-63, BCZ8060-100, BCZ8060-125, the enclosure of the plugs and sockets are made of antistatic SMC-2.

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

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is limited as follows:

BCZ8060-10(16) /□/□: -20 °C ... +55 °C for Ex db eb IIC T6 Gb and for Ex tb IIIC T80°C Db.

BCZ8060-20(32)/□/□, BCZ8060-50(60,63)/□/□: -20 °C ... +40 °C for Ex db eb IIC T5 Gb and for Ex tb IIIC T80°C Db.

BCZ8060-20(32)/□/□, BCZ8060-50(60,63)/□/□, BCZ8060-100(125)/□/□: -20 °C ... +55 °C for Ex db eb IIC T4 Gb and for Ex tb IIIC T80°C Db.

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

Suitable heat-resisting cables shall be applied for the following models:

- for models BCZ8060-50 (60, 63) /□/□: rated minimum 90 °C.

- for models BCZ8060-100 (125) /□/□: rated minimum 105 °C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Changes for issue 1:

Addition of alternative cable gland sizes in the sockets.

Update to standard IEC 60079-31:2022



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Additional information:

The enclosures of the explosion-proof plug and socket model BCZ8060-../. series successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

Annex:

[P23139IA-CCA certificate IECEx CNEX 21.0004X issue 1.pdf](#)



Annex to Certificate IECEx CNEX 21.0004X Issue 1

Equipment: **Explosion-proof Plug and Socket models BCZ8060-././ series**
Applicant: **Warom Technology Incorporated Company**
Address: **No. 555# Baoqian Road, Jiading District, Shanghai
P.R. China**

Nomenclature for model BCZ8060-a/b/c

BCZ	-	Explosion-proof plug and sockets
8060	-	Design No.
a	-	Rated current (10 A, 16 A, 20 A, 32 A, 50 A, 60 A, 63 A, 100 A, 125 A)
b	-	Rated voltage: 48 = 12...48 VAC/DC 250DC = 50...250 VDC 130 = 100...130 VAC 250 = 200...250 VAC 415 = 380...415 VAC 500 = 480...500 VAC 690 = 600...690 VAC
c	-	Pole number: 2P = 2P; 3P = 2P+PE, 1P+N+PE; 4P = 3P+PE; 5P = 3P+N+PE

Electrical Data:
See tables below.

Mounting Instructions:
See manufacturer's instructions.

Installation Instructions:
See manufacturer's instructions.

Routine tests:
Detailed in the Test Report Cover document. (ref. P23139IA-CS).

Descriptive Documents:
Detailed in the Test Report Cover document. (ref. P23139IA-CS).

Additional information:
The enclosures of the explosion-proof plug and socket model BCZ8060-././ series successfully passed the tests for the Ingress Protection Level IP66 to EN 60529.

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B42, 6812 AR, Arnhem, the Netherlands

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Annex to Certificate IECEx CNEX 21.0004X Issue 1

Annex: Electrical data for BCZ8060-10/□/□ and BCZ8060-16/□/□:

Type	Rated voltage (V)	Pole number	Rated current (A)	Ex marking	Cable O.D. (Φ, mm)		Cable entry thread
					Plug	Socket	
BCZ8060 -10/□/□ BCZ8060 -16/□/□	480..500 VAC	3P+PE	10 or 16	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db IP66	8..16	8..18	M20×1.5 or M25×1.5
	380..415 VAC	3P+PE					
		3P+N+PE					
	200..250 VAC	1P+N+PE			8..14		
		3P+PE			8..16		
		3P+N+PE					
	100..130 VAC	1P+N+PE			8..14		
	12..48 VAC/DC 50..250 VDC	2P					
		2P+PE					

Annex: Electrical data for BCZ8060-20/□/□ and BCZ8060-32/□/□

Type	Rated voltage (VAC)	Pole number	Rated current (A)	Ex marking	Cable O.D. (Φ, mm)		Cable entry thread
					Plug	Socket	
BCZ8060 -20/□/□	600..690	3P+PE	20 or 32	Ex db eb IIC T5 Gb (Ta: -20°C to +40°C)	9..19	17..25	M25×1.5 or M32×1.5 or M40×1.5
	480..500	3P+PE					
BCZ8060 -32/□/□	380..415	3P+PE		Ex db eb IIC T4 Gb (Ta: -20°C to +55°C)			
		3P+N+PE					
	200..250	3P+PE		Ex tb IIIC T80°C Db IP66			
		3P+N+PE					

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Annex to Certificate IECEx CNEX 21.0004X Issue 1

Annex: Electrical data for BCZ8060-50/□/□, BCZ8060-60/□/□ and BCZ8060-63/□/□:

Type	Rated voltage (VAC)	Pole number	Rated current (A)	Ex marking	Cable O.D. (Φ, mm)		Cable entry thread
					Plug	Socket	
BCZ8060 -50/□/□	600..690	3P+PE	50 or 60 or 63	Ex db eb IIC T5 Gb (Ta: -20°C to +40°C) Ex db eb IIC T4 Gb (Ta: -20°C to +55°C) Ex tb IIIC T80°C Db IP66	16..22	23..32	M32×1.5 or M40×1.5 or M50×1.5
	480..500	3P+PE					
BCZ8060 -60/□/□	380..415	3P+PE			22..28		
		3P+N+ PE					
BCZ8060 -63/□/□	200..250	3P+PE			16..22		
		3P+N+ PE			22..28		

Annex: Electrical data for BCZ8060-100/□/□ and BCZ8060-125/□/□:

Type	Rated voltage (VAC)	Pole number	Rated current (A)	Ex-marking	Cable O.D. (Φ, mm)		Cable entry thread
					Plug	Socket	
BCZ8060 -100/□/□	600..690	3P+PE	100 or 125	Ex db eb IIC T4 Gb Ex tb IIIC T80°C Db IP66	24..28 34..38	32..44	M50×1.5 or M63×1.5
	480..500	3P+PE					
BCZ8060 -125/□/□	380..415	3P+PE			45..49		
		3P+N+PE					
	200. .250	3P+PE			24..28 34..38		
		3P+N+PE			45..49		

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