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 ETL 17.0026

Issue No: 0

Certificate history:
Issue No. 0 (2017-08-18)

Status: **Current**

Date of Issue: **2017-08-18**

Applicant: **CIXI WANJIE ELECTRONIC CO., LTD**
#219,Zhangxin south Rd, Xiaolin Town, Cixi City,
Zhejiang, China
China

Equipment: **PCB Single Terminal Blocks**

Optional accessory:

Type of Protection: **Increased Safety**

Marking:

Ex eb IIC Gb

IECEx ETL 17.0026U

Approved for issue on behalf of the IECEx Certification Body: Todd L. Relyea

Position: Certification Officer

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.

Certificate issued by:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

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Manufacturer: **CIXI WANJIE ELECTRONIC CO., LTD**
#219,Zhangxin South Rd
Xiaolin Town, Cixi City, Zhejiang,
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 electrical 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 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

US/ETL/ExTR17.0039/00

Quality Assessment Report:

GB/ITS/QAR17.0009/00

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

PCB Single Terminal Blocks types WJ105RA-5.0-…-EX and WJ105VA-5.0-…-EX, with accessories for the connection of copper conductors to electronic modules in Type “e”, increased safety, enclosures.

Service temperature range: -50°C to +110°C.

Ambient temperature range: -50°C to +40°C

WJ105RA-5.0-...-EX: Right angle mount

WJ105VA-5.0-...-EX: Vertical mount

“…”coding is permitted to be any alphanumeric character

Routine tests: N/A

SPECIFIC CONDITIONS OF USE: NO

Schedule of Limitations

- The PCB Terminal Blocks and accessories are designed for interconnection of copper wires in enclosures for type of protection by increased safety “e”.
- When assembling the PCB connectors and accessories the clearances and creepage distances must be compliant to IEC 60079-7 requirements per the terminal blocks Ex and voltage ratings.
- A temperature test must be conducted to ensure the service temperature of the terminals is not exceeded in the final application.
- Conductor ratings of local certification authorities shall be followed. A temperature-rise of 30K is experienced with 14AWG wire conductor with 22A of current. Product use outside these specifications may result in a higher temperature rise.
- To avoid mechanical stress to the soldered joints, the headers have to be mechanically supported by e.g. screwing or bending the solder pins.
- When assembling the PCB Terminal Blocks the instructions in the manufacturer’s documentation shall be respected.

Annex:

G102959547 R Interconnections IECEx Annex.pdf

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ExTR No:	**US/ETL/ExTR17.0039/00**	
Annex No. A		

Manufacturer's Documents

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
WJ105R-5.0-GB-EX	WJ105R-5.0-GB-EX	1	5/25/17
WJ105RA-5.0-XXP-1YY-EX	WJ105RA-5.0-XXP-1YY-EX	2	8/10/17
WJ105V-5.0-GB-EX	WJ105V-5.0-GB-EX	1	5/25/17
WJ105VA-5.0-XXP-1YY-EX	WJ105VA-5.0-XXP-1YY-EX	2	8/10/17
Printed-circuit board connection terminal Blocks for use in potentially Explosive environments	WJ105	1	2017-31-07