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 IBE 14.0013	Issue No: 1	Certificate history:
			Issue No. 1 (2016-12-22)
Status:	**Current**	Page 1 of 5	Issue No. 0 (2014-05-05)
Date of Issue:	**2016-12-22**		
Applicant:	**Weidmüller Interface GmbH & Co.** Klingenbergstraße 16 32758 Detmold **Germany**		
Equipment:	**Junction box**		
Optional accessory:	*Type Klippon FS... (KTB FS), TB MH... (KTB MH), TB QL... (KTB QL)*		
Type of Protection:	**Increased safety "e", intrinsic safety "i". dust ignition protection by enclosure "t"**		
Marking:	Ex eb IIC/IIB/IIA T6/T5/T4 Gb Ex ia IIC/IIB/IIA T6/T5/T4 Ga Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb Ex tb IIIC T80°C/95°C/T135°C Db Ex ia IIIC T80°C/95°C/T135°C Da -60 °C...+40/+55/+90 °C		

Approved for issue on behalf of the IECEx Certification Body: Prof. Dr. Tammo Redeker

Position: Head of Certification Body

Signature:
(for printed version)

Date: 2016-12-22

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:

IECEx Certificate of Conformity

Certificate No: IECEx IBE 14.0013 Issue No: 1

Date of Issue: **2016-12-22**

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Manufacturer:	**Weidmüller Interface GmbH & Co.** Klingenbergstraße 16 32758 Detmold **Germany**	

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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
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:

DE/IBE/ExTR13.0063/01

Quality Assessment Report:

NL/DEK/QAR12.0052/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The junction boxes of type Klippon TB FS..., abbreviated as KTB FS..., Klippon TB MH..., abbreviated as KTB MH... and Klippon TB QL..., abbreviated as KTB QL... are made of coated or uncoated stainless steel or coated mild steel. Additionally, they can contain gland plates made of the same materials or brass. Alternatively, junction boxes can have a surface painting (thickness > 0.2 mm... ≤ 2 mm).

The covers are equipped with the following closing mechanism:

FS - Fixing Screw

MH - Multi Hinge

QL - Quarter Lock

Furthermore, the junction boxes feature connection of flanges via gland plates, application of the cable transit system Roxtex and use of special flange plates in combination with certified plug and socket connectors. The corresponding instructions of the manufacturer's documentation shall be observed.

Technical data

Ambient temperature:	-60 °C to +40 °C (T6 resp., T80°C)
	-60 °C to +55 °C (T5 resp., T95°C)
	-60 °C to +90 °C (T4 resp., T135°C)
Rated voltage:	max. 1100 V
Rated current:	max. 452 A
Conductor cross section:	max. 300 mm²

These values are maximum values. The actual electrical values are determined by the built-in components / terminals. The manufacturer specifies the rated values in the context of these maximum values and ensures compliance with the maximum surface temperature of the equipment and the permissible operating temperature of the components / terminals. The actual rated electrical values are indicated on the individual marking plates and in the manufacturer's instructions.

The used components may be certified in accordance with previous editions of applicable standards. It is the manufacturer's responsibility to confirm the compliance of these components with the requirements of current standards.

CONDITIONS OF CERTIFICATION: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Update of covered standards: IEC 60079-7 (Ed. 5.0)

Additional variants of the junction box with surface painting (thickness > 0.2 mm...≤ 2 mm) for explosion groups IIB and IIA

Change of maximum surface temperature of the junction box from T85°C to T80°C and from T100°C to T95°C

Corresponding change of marking

Removal of covered standard IEC 60079-26, as EPL Ga for Ex "ia" equipment is fully covered by IEC 60079-11