



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 IBE 14.0013	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2016-12-22) Issue 0 (2014-05-05)
Date of Issue:	2021-11-04		
Applicant:	Weidmüller Interface GmbH & Co. Klingenbergstraße 16 32758 Detmold Germany		
Equipment:	Junction box type Klippon® TB MH/FS/QL		
Optional accessory:			
Type of Protection:	Increased safety "e", intrinsic safety "i". dust ignition protection by enclosure "t"		
Marking:	Ex eb IIC or IIB or IIA T6...T4 Gb Ex ia IIC or IIB or IIA T6...T4 Ga Ex eb ia IIC or IIB or IIA T6...T4 Gb Ex tb IIIC T80 °C...T135 °C Db Ex ib IIIC T80 °C...T135 °C Db -60 °C...+40/+55/+90 °C		

Approved for issue on behalf of the IECEx
Certification Body:

Alexander Henker

Position:

Deputy Head of department Certification Body

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 www.iecex.com or use of this QR Code.



Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstrasse 26
Detmold 32758
Germany

Additional
manufacturing
locations:

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 60079-11:2011 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

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:

DE/IBE/ExTR13.0063/01

DE/IBE/ExTR13.0063/02

Quality Assessment Report:

NL/DEK/QAR12.0052/07



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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 $> 0.2 \text{ mm} \dots \leq 2 \text{ mm}$).

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 Rextex 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
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Rated current:	max. 452 A
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Conductor cross section:	max. 300 mm ²
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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.

Safety instructions:

- During mounting and operation, the minimum degree of protection IP64 is only achieved by proper use of adequate cable glands tested and certified for explosion protection.
- The conditions specified in the certificates of the Ex components have to be taken into account for the installation of these components in the junction box.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The device meets the requirements of the current standards IEC 60079-0, Ed. 7.0 and IEC 60079-7, Ed. 5.1.