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 09.0019

Issue No: 2

Certificate history:
Issue No. 2 (2017-06-09)
Issue No. 1 (2010-12-21)
Issue No. 0 (2010-01-26)

Status: **Current**

Date of Issue: **2017-06-09**

Applicant: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstrasse 16
32758 Detmold
Germany

Equipment: **Control and distribution box**

Optional accessory: *Klippon STB...*

Type of Protection: **Increased safety "e"; intrinsic safety "i"; dust ignition protection by enclosure "t"**

Marking:

Ex eb IIC T6/T5/T4 Gb
Ex eb ia [Ga] IIC T6/T5/T4 Gb
Ex ia IIC T6/T5/T4 Ga
Ex tb IIIC T80°C/T95°C/T100°C Db

-60 °C ≤ Ta ≤ +40 °C/+55 °C/+60 °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:

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:

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

IECEx Certificate of Conformity

Certificate No:	IECEx IBE 09.0019	Issue No: 2
Date of Issue:	**2017-06-09**	Page 2 of 5
Manufacturer:	**Weidmüller Interface GmbH & Co. KG** 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/ExTR09.0017/00 DE/IBE/ExTR09.0017/01

Quality Assessment Report:

NL/DEK/QAR12.0052/04

IECEx Certificate of Conformity

Certificate No: IECEx IBE 09.0019 Issue No: 2

Date of Issue: **2017-06-09** Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The control and distribution box of type Klippon STB… is used as a general purpose connection and junction box that can be equipped with approved ex-components such as cable glands and terminals for cross-connections of conductors in compliance with the thermal requirements of the respective temperature class. The enclosure consists of a bottom section and a cover made of stainless steel. The cover is locked by fastening screws; sealing is provided by means of a silicone gasket. The control and distribution box can be used for the types of protection “e” (increased safety) and “t” (dust ignition protection by enclosure) in potentially explosive gas and dust atmospheres of zone 1 and 21. If all electrical circuits are intrinsically safe with level of protection “ia”, the box can also be used in zone 0.

Technical data

Ambient temperature range:	-60 °C...+40 °C (T6 resp., T80°C)
	-60 °C...+55 °C (T5 resp., T95°C)
	-60 °C...+60 °C (T4 resp., T100°C)
Degree of protection (IP):	IP64 / IP65 / IP66
Rated voltage:	max. 1100 V AC
Rated current:	max. 453 A
Phase conductor cross-section:	max. 300 mm²
Earthing conductor cross-section:	max. 150 mm²

Types

Enclosure	Width	Height	Depth
Klippon STB 1	120 mm	120 mm	80 mm
Klippon STB 1.1	150 mm	120 mm	80 mm
Klippon STB 2	150 mm	150 mm	90 mm
Klippon STB 2.1	190 mm	150 mm	90 mm
Klippon STB 3	190 mm	190 mm	100 mm
Klippon STB 4	250 mm	250 mm	120 mm
Klippon STB 5	380 mm	160 mm	120 mm
Klippon STB 6	400 mm	250 mm	130 mm

These values are maximum values. The actual values are determined by the installed 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 values are indicated on the individual marking plates and in the manufacturer's instructions.

IECEx Certificate of Conformity

Certificate No: IECEx IBE 09.0019 Issue No: 2

Date of Issue: **2017-06-09**

At the installation of components, the corresponding separation distances (clearance and creepage distances) in accordance with IEC 60079-7 and IEC 60079-11 have to be observed.

The required minimum degree of protection IP64 in accordance with IEC 60529 is only achieved by proper use of adequate cable glands and blanking elements tested and certified for explosion protection.

For other than T6 / T80°C applications, where the service temperature of the control and distribution box may exceed 80 °C, the manufacturer or operating company has to select appropriate heat-resistant cable glands and connection cables.

SPECIFIC CONDITIONS OF USE: NO

IECEx Certificate of Conformity

Certificate No: IECEx IBE 09.0019 Issue No: 2

Date of Issue: **2017-06-09**

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

Conformity with the current standards IEC 60079-0 (Ed. 6.0), IEC 60079-7 (Ed. 5.0), IEC 60079-11 (Ed. 6.0) and IEC 60079-31 (Ed. 2)

Change of the maximum service temperature from +120 °C to +100 °C

Corresponding change of the maximum surface temperature from T120°C to T100°C

Corresponding change of the maximum ambient temperature from +80 °C to +60 °C

Corresponding change of explosion protection marking