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 21.0012X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2021-08-09		
Applicant:	**Weidmüller Interface GmbH & Co. KG** Klingenbergstrasse 26 Detmold 32758 **Germany**		
Equipment:	**Terminal Box Klippon® EBx (KEBx)**		
Optional accessory:			
Type of Protection:	**increased safety "eb", intrinsic safety "ia" and protection by enclosure "tb"**		
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 ia IIIC T80 °C…T135 °C Da Ex tb IIIC T80 °C…T135 °C Db		

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 Report:

DE/IBE/ExTR21.0013/00

Quality Assessment Report:

NL/DEK/QAR12.0052/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

General product information
Type code

K EBx HS 20 20 15 S2 B 1 A C

Klippon	Brand Name
Essential Box Ex	Enclosure Series
Closing System	Hinge Screw
	Quarter lock
Size Width	in mm
Size Hight	in mm
Size Depth	in mm
Material	S2/304
	S4/316
Skin	B: Brushed
	P: Painted
	E: Electro polished
Gland Plate	0 without glandplate
	1 with 1 glandplate on bottom site
Version	A --> Original Design
	B --> Alternative Design
	C --> Alternative Design Welded Mounting feet
	D --> Alternative Design …
Gasket	C --> Foamed Lid SE350S GP
	D --> Both SE350 S

SPECIFIC CONDITIONS OF USE: YES as shown below:

- It is not allowed, to use powder painted enclosures in areas, where due to the process a static charge is possible.
- The applicable temperature ranges for the ambient temperature depending on the temperature class/max. surface temperature must be observed.
- The results are maximum values, the actual electrical values are determined by the built-in components. The manufacturer fixes the rated values on the basis of these limiting values, so that the maximum surface temperature and the permitted operating temperature of the components are met.
- The conditions specified in the Certificates of the Ex components have to be taken into account for the installation of these components in the enclosure.

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Equipment (continued):

Technical data

Type	min. length mm	max. length mm	min. width mm	max. width mm	min. height mm	max. height mm
KEBx QL...	200	800	200	600	150	300
KEBx HS...	200	800	200	600	150	300

Rated voltage:	max. 1100 V max. 60 V for intrinsically safe circuits
Rated current:	max. 452 A max. 1 A for intrinsically safe circuits
Ambient temperature range:	-55 °C up to +90 °C
Maximum ambient temperature in dependence of the temperature class	+40 °C for T6 +55 °C for T5 +90 °C for T4
Degree of protection (acc. to EN 60529):	IP66
Connection cross-section:	max. 300 mm²

The above listed ratings are maximum values. The actual electrical values depend on the applied terminals. The manufacturer specifies these actual electrical values in the context of the above maximum values to the applicable standards, taken net conditions, mode of operation, category etc. in account.

The used components may be certified to older editions of standards. They comply with the requirements of current standards, except marking.

The following components are used or equivalent:

Terminals

Type	Ex marking	IECEx
WDU* and WPE*	Ex eb IIC Gb	IECEXULD14.0005U
WFF series	Ex eb IIC Gb	IECEXULD15.0004U
A* series	Ex eb IIC Gb	IECEXTUR16.0036U
A series, type AAP	Ex eb IIC Gb	IECEXTUR17.0015U
A-series, type AIO	Ex eb IIC Gb	IECEXTUR17.0016U
ZDU* and ZPE*	Ex eb IIC Gb	IECEXULD15.0008U
ZDK*	Ex eb IIC Gb	IECEXULD16.0025U
ZDK*; ZDUB*	Ex eb IIC Gb	IECEXULD16.0036U
AAP*	Ex ec IIC Gc	IECEXTUR17.0029U
A series	Ex ec IIC Gc	IECEXTUR17.0030U
SAKH*	Ex eb IIC Gb	IECEXTUR18.0016U
SAK series	Ex eb IIC Gb	IECEXTUR18.0017U
SAKK	Ex eb IIC Gb	IECEXTUR18.0018U
MK*; BK*	Ex eb IIC Gb	IECEXTUR18.0019U
DK 4*	Ex eb IIC Gb	IECEXTUR18.0020U
AKZ* AKE*	Ex eb IIC Gb	IECEXTUR18.0024U

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WFS*	Ex ec IIC Gc	IECEXTUR20.0014U
WSI* WTR* WMF*	Ex ec IIC Gc	IECEXUL14.0097U
ZB series	Ex eb IIC Gb	IECEXULD13.0005U
ADT*	Ex ec IIC Gc	IECEXTUR16.0045U
APGTB*	Ex ec IIC Gc	IECEXTUR16.0046U
WPD*	Ex eb IIC Gb	IECEXCNEX16.0005U
WPD*	Ex eb IIC Gb	IECEXCNEX18.0010U
PDU*	Ex eb IIC Gb	IECEXKEM06.0032U