

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)



[2] Equipment and Protective System intended for use
in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU12ATEX1145 X**

[4] Equipment: **Junction Enclosure**
Type Klippon K

[5] Manufacturer: **Weidmüller Interface GmbH & Co. KG**

[6] Address: **Klingenbergstr. 16**
32758 Detmold
Germany

[7] The design of the equipment mentioned in [4] and any acceptable variation thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the equipment mentioned in [4] has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The test results are recorded in the test report IB-11-3-231 of 19 December 2012.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with IEC 60079-0:2011, EN 60079-7:2007, EN 60079-11:2012 and EN 60079-31:2009.

[10] If the sign „X“ is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned in [4] shall include one of the following:

II 2G Ex e IIC T6...T4 Gb or II 2G Ex eb IIC T6...T4

II 2G Ex ia IIC T6...T4 Gb or II 2G Ex ia IIC T6...T4

II 2(1)G Ex e ia IIC T6...T4 Gb or II 2(1)G Ex eb ia IIC T6...T4

II 2D Ex t IIIC T 85 °C ...135 °C Db or II 2D Ex tb IIIC T 85 °C...135 °C
-60 °C ≤ T_a ≤ +40 °C/+55 °C/+90 °C

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0)3731 3805-0 - 📠 +49 (0)3731 23650

Authorised for certifications
-Explosion protection-

By order

(Dr. Wagner)

Schedule



- Seal -
(ID no. 0637)

Freiberg, 19 December 2012

Certificates without signature
and seal are not valid.
Certificates may only be
duplicated completely and
unchanged. In case of dis-
pute, the German text shall
prevail.

Schedule

[14] to the EC-TYPE EXAMINATION CERTIFICATE IBExU12ATEX1145 X

[15] **Description of equipment**

The Junction enclosures type Klippon K are produced from aluminium and can be provided with approved Ex components according to ATEX, such as plug-in connectors, modular terminal blocks, connecting terminals and switches, in any combination.

The housings can be used in increased safety in the zones 1 and 2 as well as 21 and 22.

Types

	length	breadth	high
Klippon K1	70 mm	70 mm	45 mm
Klippon K2	70 mm	100 mm	45 mm
Klippon K3	70 mm	165 mm	45 mm
Klippon K4	82 mm	130 mm	72 mm
Klippon K5	130 mm	170 mm	90 mm
Klippon K6	160 mm	200 mm	100 mm
Klippon K7	160 mm	350 mm	100 mm
Klippon K11	80 mm	75 mm	57 mm
Klippon K21	80 mm	125 mm	57 mm
Klippon K31	80 mm	175 mm	57 mm
Klippon K32	80 mm	250 mm	55 mm
Klippon K41	120 mm	122 mm	81 mm
Klippon K51	120 mm	220 mm	81 mm
Klippon K52	160 mm	160 mm	91 mm
Klippon K61	160 mm	260 mm	91 mm
Klippon K71	230 mm	280 mm	111 mm

Further identically constructed enclosures can be manufactured with in-between sizes.

Technical data:

Ambient temperature range:	T6/T 85 °C	-60 °C to +40 °C
	T5/T 100 °C	-60 °C to +55 °C
	T4/T 135 °C	-60 °C to +90 °C

Degree of protection: IP 66/67

Electrical data:

Rated voltage:	according to clamping type to 1100 V intrinsically safe circuits 100 V
Rated current:	according to the equipping tables max. 453 A
Connection cross-section:	max. 300 mm ²
Protective ground cross-section:	to 150 mm ²

[16] **Test report**

The proof of explosion protection is recorded in detail in the test report IB-11-3-231. The test documents are part of the test report and are listed there.

Summary of the test results:

The Junction enclosures types Klippon K fulfil the requirements of explosion protection for equipment group II and category 2G, type of protection Increased Safety and Category 2D with Protection by enclosures and Intrinsic safety.

Safety technical notes

- The conditions specified in the EC-Type Examination Certificates of the Ex components have to be taken into account for the installation of these components in the enclosure.
- The degree of protection, at least IP 64 for dust/ IP 54 for gas, at the installation and operation is reached only at the proper use of cable glands which are tested and confirmed on explosion protection.

[17] Special conditions for safe use

- The applicable temperature ranges for the ambient temperature depending on the temperature class / max. Surface temperature must be observed.
- The values are maximum values, the actual electrical values are determined by the built-in components. The manufacturer fixes the definite rated values in the context of these limiting values. So the manufacturer ensures the compliances with the maximum surface temperature and the permissible operating temperature of the components.

[18] Essential Health and Safety Requirements

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 19 December 2012



(Dr. Wagner)