



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

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx ULD 13.0005U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2013-04-12)
Date of Issue:	2021-06-28		
Applicant:	Weidmüller Interface GmbH & Co. KG Klingenbergsstrasse 26 Detmold 32758 Germany		
Ex Component:	Earthing and Neutral Busbar assembly, Types SH* and WEW*/* with ZB* and WBBD 16 or NSCH and ESCH with DKSUE NSCH/ESCH.		
Type of Protection:	Increased Safety "eb"		
Marking:	Ex eb IIC Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

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:

UL International DEMKO A/S
Borupvang 5A
DK-2750 Ballerup
Denmark





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

Additional manufacturing locations: **Weidmüller Interface GmbH & Co. KG**
Klingenbergrasse 16
32758 Detmold
Germany

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 60079-7:2017 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:

[DK/ULD/ExTR13.0005/00](#)

[DK/ULD/ExTR13.0005/01](#)

Quality Assessment Report:

[NL/DEK/QAR12.0052/07](#)



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Ex Component(s) covered by this certificate is described below:

Earthing Busbar assembly, consisting of busbar holders type SH... or WEW..., a copper busbar and clamping yokes type ZB and WBBD 16 terminals..., for the connection of copper conductors in enclosures in type of explosion protection increased safety "eb". The assembly is considered to form one component and are not to be used independently. The Ex-marking of the assembly is provided on the busbar holders. The following assembly elements are covered in this certification: rail mounting clamps type SH1, SH2, SH2S, SH3, WEW35/1 or WEW 35/2 and busbar NSCH, ESCH, SSch 10x3, SSch 12X5, SSch 6x6, SSch 15x6 and SSch 12x10.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- The Earthing Busbar assembly described above is considered to form one component, with Ex marking applied to the busbar holders type SH and WEW.. If used independently, the above mentioned parts are not covered by this certificate.
- Service temperature range -60°C ... +180°C (for ZB/NSCH/ESCH without insulating material).
- Service Temperature Range -60°C ... +100°C (For WBBD 16 with PA6 insulating material).
- Service temperature range -60°C ... +100°C (for ZB with PA66 insulating material).
- Service temperature range -60°C ... +110°C (for SH1 and SH3 with PA66 insulating material).
- Service temperature range -60°C ... +130°C (for SH2 and SH2S with KRG insulating material).
- Service temperature range -60°C ... +110°C (for WEW with PA66 insulating material).
- The maximum temperature rise was determined $\leq \Delta T$ 40 K.
- For WBBD 16 - 1 solid or stranded conductor per clamping unit
- For WBBD 16 - resistance across terminal – 0.42mΩ
- The Earthing Busbar assemblies are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC 60079-0 and IEC 60079-7. For combustible dust these enclosures must satisfy the requirements according to IEC 60079-0 and IEC 60079-31. The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. The terminal blocks shall be placed inside a suitable certified IP54 enclosure in type of protection "e" for gas atmosphere. For dust atmosphere the terminal blocks shall be placed inside a suitable certified IP6X enclosure in type of protection "t" for dust atmosphere.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of WBBD-16 terminal blocks and ESCH 1M Earthing busbar. Updates to the markings for SH1, SH2, SH3 and SH2S. Updates to latest edition of the Standards.

Annex:

[Annex to IECEx ULD 13.0005U Issue 1.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Type**	Rated conductor cross section in mm ² (AWG)	Conductor cross section rigid in mm ² (AWG)	Conductor cross section flexible in mm ² (AWG)	Maximum current in A***	Tightening torque in Nm	Number of Conductors
NSCH	2.5 (14)	Min. 0.5 (20) Max. 2.5 (14)	Min. 0.5 (20) Max. 2.5 (14)	24 per clamping unit; 72 NSCH busbar	2	1
ZB4, ZB4K, ZB4G, ZB4/6, ZB4/6K	4 (12)	Min. 0.5 (20) Max. 6.0 (10)	Min. 0.5 (20) Max. 4.0 (12)	28*	0.5	1
ZBE6, ZBE6K	6 (10)	Min. 1.0 (20) Max. 10 (8)	Min. 1.5 (20) Max. 10 (8)	36*	1.2	1
ZB10	10 (8)	Min. 1.5 (16) Max. 10 (8)	Min. 1.5 (16) Max. 10 (8)	50*	1.2	1
ZB16 ZB16/6K, ZBE16K ZB16K, ZB16/6	16 (6)	Solid: Min. 2.5 (14) Max. 16 (6) Stranded: Min. 16 (6) Max. 25 (4)	Min. 2.5 (14) Max. 16 (6)	66*	1.2	1
ZB35, ZB35K	35 (2)	-	Min. 16 (64) Max. 35 (0) Stranded: Min. 16 (6) Max. 50 (4)	109*	2.5	1
ESCH	2.5 (14)	2.5 (14)	2.5 (14)	-	2.0	1
WBBD 16****	16 (6)	Min 1.5 (20) Max 16 (6)	Stranded: Min 1.5 (20) Max 16 (6)	76A	2.5	1

Notes:

*If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the Certificate of the complete apparatus.

**in all colours

*** The maximum temperature was determined $\leq \Delta T$ 40 K

**** Contact Resistance WBBD 16 with rated cross section 0.42mOhm

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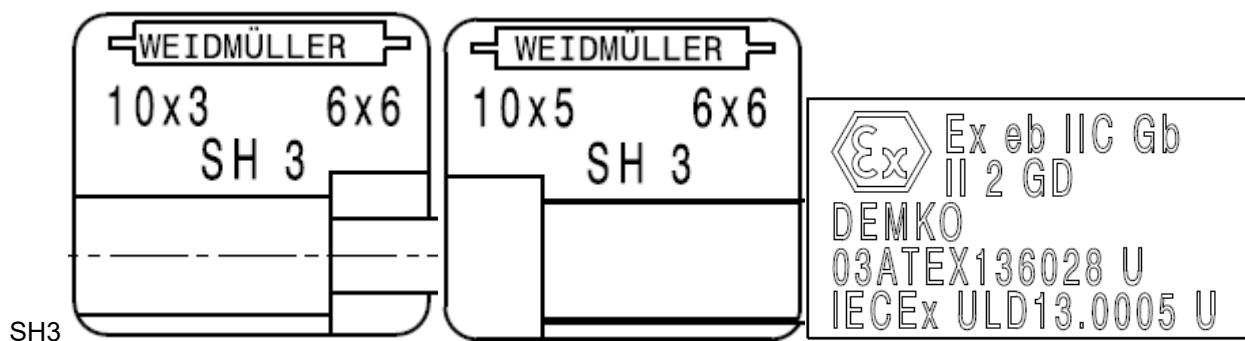
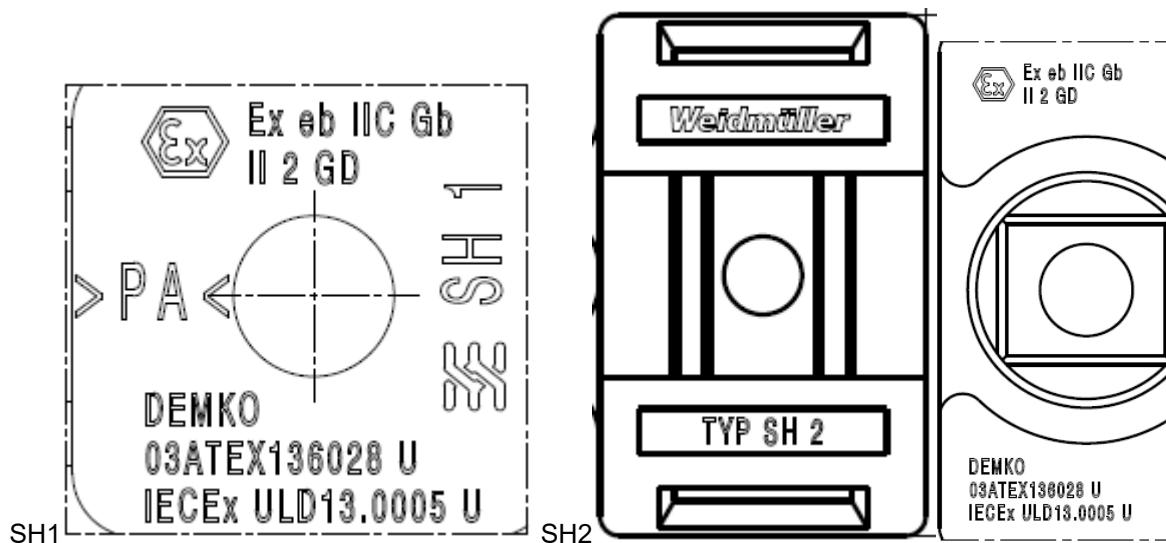
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MARKING

Marking has to be readable and indelible; it has to include the following indications:





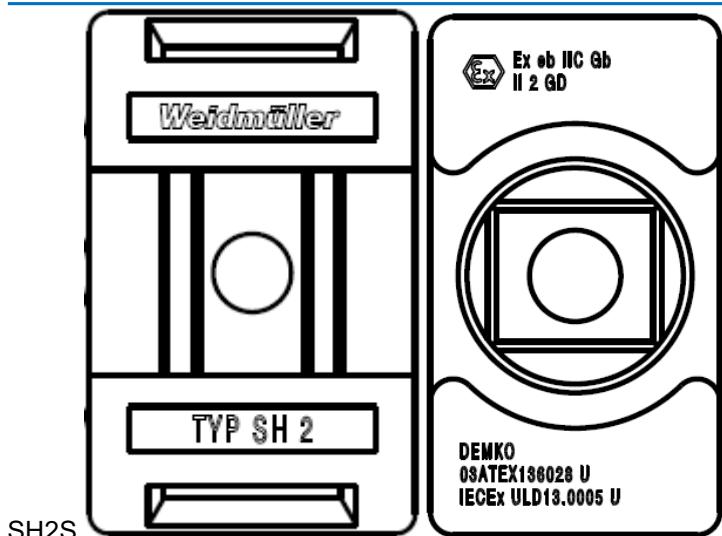
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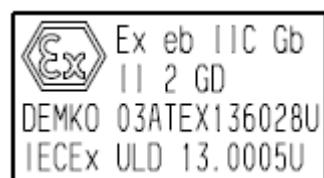
SH2S

WEW 35/1



WEW 35/2

Weidmüller



WBBD 16

