



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 TPS 16.0004X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2021-12-09) Issue 0 (2017-03-02)
Date of Issue:	2022-06-14		
Applicant:	Weidmüller Interface (Shanghai) Co., Ltd Zone A, No.63 Factory Building, No.101, Hancheng Road, China (Shanghai) Pilot Free Trade Zone 200131 China		
Equipment:	Cable Glands, Adapters and Stopping Plugs; Type A2L**/*/*-WM, E1** /*/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.		
Optional accessory:			
Type of Protection:	Ex "db", "eb" and "ta"		
Marking:	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da		

Approved for issue on behalf of the IECEx
Certification Body:

Ing. Kristof De Gersem, MSc.

Position:

Technical Certifier

Signature:
(for printed version)

Date:
(for printed version)

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Ridlerstr. 65
D-80339 Munich
Germany



Product Service



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Certificate No.: **IECEx TPS 16.0004X**

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Date of issue: 2022-06-14

Issue No: 2

Manufacturer: **Weidmüller Interface (Shanghai) Co., Ltd**
Zone A , No.63 Factory Building, No.101 ,Hancheng Road, China (Shanghai) Pilot Free Trade Zone 200131
China

Manufacturing locations: **Weidmüller Interface (Shanghai) Co., Ltd**
Zone A , No.63 Factory Building,
No.101 ,Hancheng Road, China
(Shanghai) Pilot Free Trade Zone
200131
China

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

CN/CQM/ExTR21.0026/00

Quality Assessment Report:

DE/TPS/QAR22.0001/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The A2L** / * / *-WM, E1** / * / *-WM, ADAP* / *-Ex WM, VP** / *-Ex WM; Ranges of Cable Glands, Adapters and Stopping Plugs.

Cable Gland

The ranges of explosion proof cable glands are metallic and are intended to terminate circular armoured, unarmoured and braided cables (as defined by their type designations) into a threaded entry point within associated flameproof (Ex d), increased safety (Ex e) or dust tight enclosures (Ex t) (as defined by their coding). These cable glands include M-, NPT- and G-threads (G-thread are only for conduit connection, no-Ex function). The material of the gland body is HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L. According to the type, the cable glands can be realized with a simple sealing or double silicon rubber sealing.

Adapter

The ranges of adapters have an external male thread and an internal female thread. These adapters include M and NPT threads. The body materials are HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L, and are provided with an "O" ring seal except for the adapters in NPT thread.

Stopping Plug

The ranges of stopping plug comprise a cylindrical body with an external male thread along its length. These stopping plugs include M and NPT threads. The body materials are HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L, and are provided with an "O" ring seal except for the plugs in NPT thread.

All cable glands, adapters and stopping plugs ranges manufactured by Weidmüller Interface (Shanghai) Co.,Ltd have their type designations. These are shown in a matrix detailed in the manufacturer's documents, they are also shown in the manufacturer's instruction leaflets for the end user. These type designations are unique to each cable gland, adapter and stopping plug, and identify the various design options applicable to each cable gland, adapter and stopping plug ranges. Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The following conditions relate to safe installation and/or use of the equipment.

For A2L** / * / *-WM and E1** / * / *-WM series cable gland:

- The equipment shall be installed according to the instruction manual provided by the manufacturer.
- Service temperature: -50 °C to +120°C.
- The cable glands of all the series A2L, A2LC and E1 shall only be used for fixed installations. The installer shall also ensure that the cable is adequately clamped after installation.

For ADAP*- *-WM series adaptor and VP***-Ex WM series stopping plug:

- The equipment shall be installed according to the instruction manual provided by the manufacturer.
- Service temperature: -50 °C to +120°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue No. 1:

New standard versions: IEC 60079-0:2017 & IEC 60079-7:2017.

Issue No. 2:

Updated IECEx QAR information and re-certification.

No technical changes.

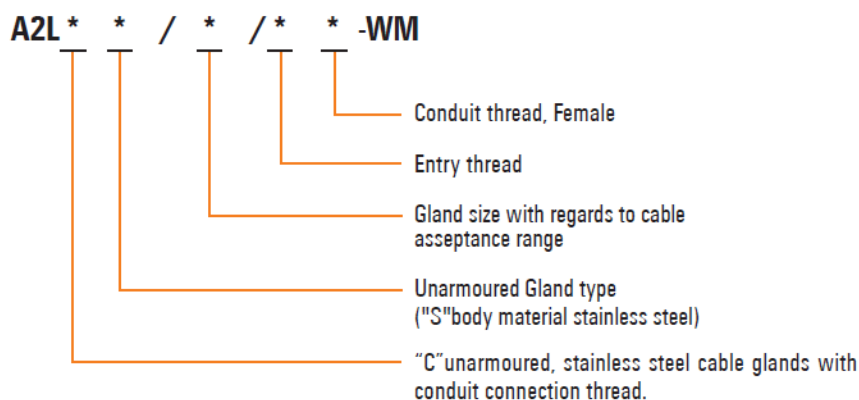
Annex:

[Annex to CoC IECEx TPS 16.0004X.pdf](#)

Annex to certificate: IECEx TPS 16.0004X
Applicant: Weidmüller Interface (Shanghai) Co., Ltd
 Zone A, No.63 Factory Building, No.101, Hancheng Road, China
 (Shanghai) Pilot Free Trade Zone 200131 China
Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L**/*-WM, E1**/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.

Description of equipment

1. Cable gland
- 1) A2L***-WM type cable glands are for outdoor use in the appropriate Hazardous Area with unarmoured. They seal on the outer jacket.
- 2) A2LC*/*-WM type cable glands provide conduit thread connection.



For example: A2LCS/20/M20-M20-WM is unarmoured stainless steel cable glands, with M20 thread for conduit connection, glands size 20.

This report covers the following A2L(S) types:

GLAND SIZE	ENTRY THREAD SIZE		
	STANDARD		OPTIONAL
	METRIC	NPT	NPT
16	M16	1/2"	3/4"
20S	M20	1/2"	3/4"
20	M20	1/2"	3/4"
25	M25	3/4"	1"
32	M32	1"	1-1/4"

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 Zone A, No.63 Factory Building, No.101, Hancheng Road, China
 (Shanghai) Pilot Free Trade Zone 200131 China
Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L**/*-WM, E1**/*-WM, ADAP**/*-Ex WM, VP**/*-Ex WM.

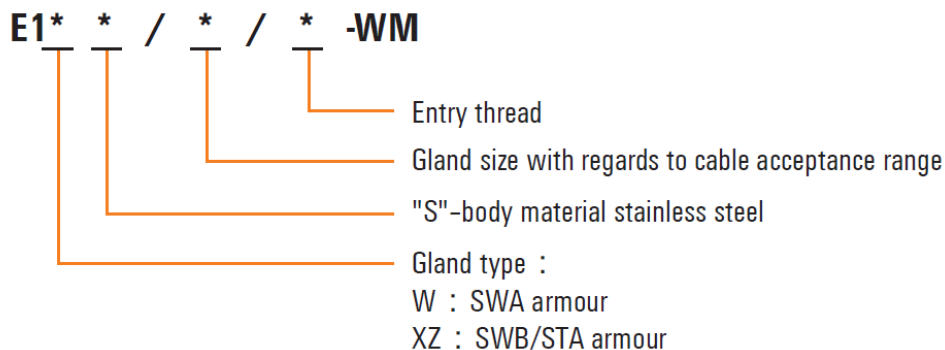
40	M40	1-1/4"	1-1/2"
50S	M50	1-1/2"	2"
50	M50	2"	
63S	M63	2"	2-1/2"
63	M63	2-1/2"	

This report covers the following A2LC(S) types:

GLAND SIZE	ENTRY THREAD SIZE			CONDUIT THREAD SIZE		
	STANDARD		OPTION AL	STANDARD		OPTION AL
	METRIC	NPT	NPT	METRI C	NPT/G	NPT/G
16	M16	1/2"	3/4"	M20	1/2"	3/4"
20S	M20	1/2"	3/4"	M20	1/2"	3/4"
20	M20	1/2"	3/4"	M20	1/2"	3/4"
25	M25	3/4"	1"	M25	3/4"	1"
32	M32	1"	1-1/4"	M32	1"	1-1/4"
40	M40	1-1/4"	1-1/2"	M40	1-1/4"	1-1/2"
50S	M50	1-1/2"	2"	M50	1-1/2"	2"
50	M50	2"		M50	2"	
63S	M63	2"	2-1/2"	M63	2"	2-1/2"
63	M63	2-1/2"		M63	2-1/2"	

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Applicant: Weidmüller Interface (Shanghai) Co., Ltd
 Zone A, No.63 Factory Building, No.101, Hancheng Road, China
 (Shanghai) Pilot Free Trade Zone 200131 China
Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L**/*-**-WM, E1** /*/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.

3) E1** /*/*-WM type cable glands are for outdoor use in the appropriate Hazardous Area with armoured. They seal on the outer jacket and inter jacket.



For example: E1WS/20/M20-WM is stainless steel M20 cable glands for SWA-armoured cable, with glands size 20.

This report covers the following E1W(S), E1XZ(S) types:

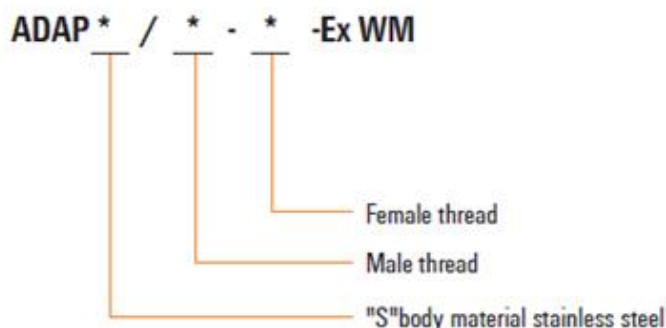
GLAND SIZE	ENTRY THREAD SIZE		
	STANDARD		OPTIONAL
	METRIC	NPT	NPT
16	M16	1/2"	3/4"
20S	M20	1/2"	3/4"
20	M20	1/2"	3/4"
25	M25	3/4"	1"
32	M32	1"	1-1/4"
40	M40	1-1/4"	1-1/2"
50S	M50	1-1/2"	2"

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 Zone A, No.63 Factory Building, No.101, Hancheng Road, China
 (Shanghai) Pilot Free Trade Zone 200131 China
Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L**/*-**-WM, E1** /*/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.

50	M50	2"	
63S	M63	2"	2-1/2"
63	M63	2-1/2"	

2. Adapter

ADAP*/*-Ex WM adapters are for outdoor use in the appropriate Hazardous Area, providing a method of matching electrical thread forms on Ex equipment while maintaining Flameproof Ex d and Increased Safety Ex e methods of explosion protection.



For example: ADAPS M20 -NPT 1/2- WM stainless steel adaptor, with male thread M20 thread to female thread NPT1/2.

This report covers the following ADAP(S) types:

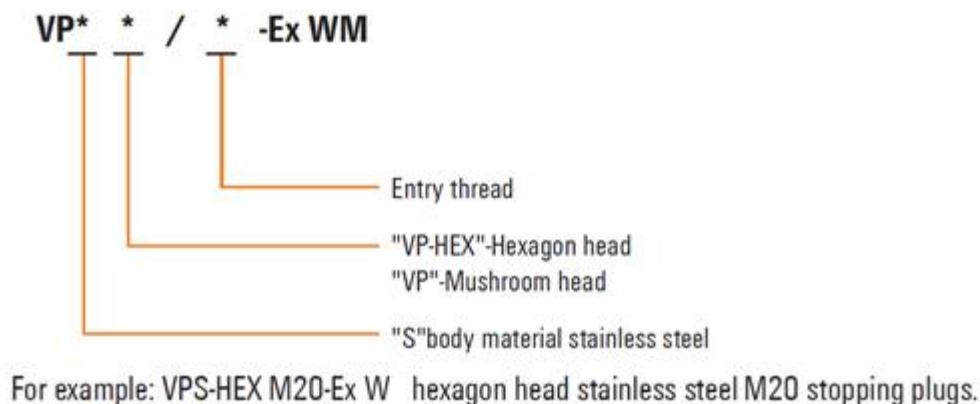
FEMALE \ MALE	M16	M20	M25	M32	M40	M50	M63	1/2 NPT	3/4 NPT	1 NPT	1-1/4 NPT	1-1/2 NPT	2 NPT
M16	A01	A01						A01	A02				
M20	R01	A03	A04	A05				A03	A04	A05			
M25	R02	R02	A06	A07	A08			R02	A06	A07	A08		
M32	R03	R03	R03	A09	A10	A11		R03	R03	A09	A10	A11	
M40	R04	R04	R04	R04	A12	A13	A14	R04	R04	R04	A12	A13	A14

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 Zone A, No.63 Factory Building, No.101, Hancheng Road, China
 (Shanghai) Pilot Free Trade Zone 200131 China
Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L **/*-WM, E1** /*/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.

M50	R05	R05	R05	R05	R05	A15	A16	R05	R05	R05	R05	A15	A16
M63	R06	R06	R06	R06	R06	R06	A17	R06	R06	R06	R06	R06	A17
1/2 NPT	R01	A03	A04	A05				A03	A04	A05			
3/4 NPT	R02	R02	A06	A07	A08			R02	A06	A07	A08		
1NPT	R03	R03	R03	A09	A10	A11		R03	R03	A09	A10	A11	
1-1/4 NPT	R04	R04	R04	R04	A12	A13	A14	R04	R04	R04	A12	A13	A14
1-1/2 NPT	R07	R07	R07	R07	R07	A18	A19	R07	R07	R07	R07	A18	A19
2 NPT	R08	R08	R08	R08	R08	R08	A20	R08	R08	R08	R08	R08	A20

3. Stopping plug

VP**/*-Ex WM stopping plugs are for outdoor use in the appropriate Hazardous Area, providing a method of filling unused entries in Ex equipment while maintaining Flameproof Exd and Increased Safety Exe methods of explosion protection.



This report covers the following VP(S) types:

THREAD SIZE	HEX SOCKET
M16	M8
M20	M10
M25	M10

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Apparatus: Cable Glands, Adapters and Stopping Plugs
Type(s): A2L **/*-WM, E1** /*/*-WM, ADAP*/*-Ex WM, VP**/*-Ex WM.

M32	M10
M40	M10
M50	M10
M63	M19
1/2 NPT	M10
3/4NPT	M10
1NPT	M10
1-1/4NPT	M10
1-1/2NPT	M10
2NPT	M10
2-1/2 NPT	M19

This report covers the following VP(S) HEX types:

THREAD SIZE	M16
	M20
	M25
	M32
	M40
	M50
	M63