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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx TUR 17.0016U

Issue No: 1

Certificate history:
Issue No. 1 (2019-03-09)
Issue No. 0 (2017-09-20)

Status: **Current**

Date of Issue: **2019-03-09**

Applicant: **Weidmüller Interface GmbH**
Klingenbergstr. 16
32758 Detmold
Germany

Ex Component: **Terminals A-Series, type AIO**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Ex eb**

Marking:
Ex eb IIC Gb

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Ing. Klauspeter Graffi

Position: Head of Certification Body

Signature:
(for printed version)

Date: 2019-03-09

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

TÜVRheinland

IECEx Certificate of Conformity

Certificate No:	IECEx TUR 17.0016U	Issue No: 1
Date of Issue:	**2019-03-09**	Page 2 of 5
Manufacturer:	**Weidmüller Interface GmbH** Klingenbergstr. 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 Component 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 Ex Component 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-7 : 2017 Edition:5.1	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 Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/TUR/ExTR17.0016/01

Quality Assessment Report:

NL/DEK/QAR12.0052/04

IECEx Certificate of Conformity

Certificate No: IECEx TUR 17.0016U Issue No: 1

Date of Issue: 2019-03-09 Page 3 of 5

Schedule

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

The initiator/actuator terminal blocks of the A-series are suitable for application in enclosures in atmospheres with flammable gases or combustible dust.

Terminals AIO (A-Series)

AIO21 1.5 SI

AIO21 1.5 SO

AIO21 1.5 SO-PE

AIO22 1.5 SI-PE

AIO23 1.5 2SI

Optional accessories:

End plate: AEP ** *.**

End bracket: AEB 35 SC/1*

Terminal rail: TS 35 / * ** acc.to DIN EN 60715

Cross connection pluggable: ZQV *.*N / * *

SCHEDULE OF LIMITATIONS:

The initiator/actuator terminal blocks of the A-series 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 EN 60079-0 and EN 60079-7. For combustible dust the enclosure must satisfy the requirements according to EN 60079-0 and EN 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 mounted inside a suitable certified enclosure (EN60079-31) in type of protection “t”.

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 110 °C under any condition.

T6 (- 60°C ... +40 °C)

T5 (- 60°C … +55 °C)

T4 (- 60°C ... +70 °C)

When using the the initiator/actuator terminal blocks of the A-series especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to table 1 of EN 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

IECEx Certificate of Conformity

For cross connection accessories current rating, resistance across the terminal please refer to the table under “types & electrical rating” of the manufacturer’s installation instructions. Details on creepages and clearance values and the required torque values please see Notice to installers.

No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end.

If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

Manually cut cross connections and cross connections with blank ends (ZQV´s ≥ 20 poles) shall not be used.

IECEx Certificate of Conformity

Certificate No: IECEx TUR 17.0016U Issue No: 1

Date of Issue: **2019-03-09** Page 5 of 5

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

- Standard update to IEC 60079-0 Ed. 7.0 and IEC 60079-7 Ed. 5.1.
- Constructional change of the spring cage and current bar.