



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 FTZU 16.0003U** Page 1 of 4 **Certificate history:**
Issue 2 (2018-05-29)
Issue 1 (2017-06-02)
Issue 0 (2016-02-17)

Status: **Current** Issue No: 3

Date of Issue: 2020-06-30

Applicant: **Klemsan Elektrik Elektronik San ve Tic. A.Ş.**
Kizilüzüm Mah.Kizilüzüm Cad.No:15
35730- Kemalpaşa, Izmir
Turkey

Ex Component: Terminal blocks AVK*; AVKY*; PYK*; PYKM*; PYKMR 2,5; PIK*; WGO*; WGL 1; WGO PB 6; PB*

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: **Increased safety**

Marking: **Ex eb IIC Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.Ing.Lukáš Martinák

Position:

Head of Certification Body

Signature:
(for printed version)

Gařivok

Date:

2020-06-30



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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:

**Fyzikálně technický zkušební ústav
(Physical -Technical Testing Institute)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic**





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Page 2 of 4

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Manufacturer: **Klemsan Elektrik Elektronik San ve Tic. A.Ş.**
Kizilüzüm Mah.Kizilüzüm Cad.No:15
35730- Kemalpaşa, Izmir
Turkey

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 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

CZ/FTZU/ExTR16.0003/00
CZ/FTZU/ExTR16.0003/03

CZ/FTZU/ExTR16.0003/01

CZ/FTZU/ExTR16.0003/02

Quality Assessment Report:

CZ/FTZU/QAR11.0001/05





IECEx Certificate of Conformity

Certificate No.: **IECEx FTZU 16.0003U**

Page 3 of 4

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

Terminal blocks types AVK*; AVKY*; PYK*; PYKM*; PYKMR 2,5; PIK*; WGO *; WGL 1; WGO PB 6; PB* are adapted to be clipped on to assembly rail. The terminal blocks consist of one layer or two layers of current bars. Metal parts of terminal blocks are mounted into moulded insulation housing from material polyamide 66. There are two types of materials polyamide 66 which are identified by type of terminal blocks * or * NM. Each terminal assembly consists of current bar with a sliding clamping yokes and screws (types: AVK*; AVKY*; WGO*; WGL 1) or with spring type connection (types: PYK*; PYKM*; PYKMR 2,5; PIK*) or with threaded nuts and threaded studs for connection of conductors with cable lugs (types: WGO PB 6 ; PB*). Terminals types WGO 2N; WGO4; WGL1; WGO Y6 WGO PB 6 are equipped with sliding bridge. Terminals type WGL-1; WGO YD6 and WGO Y6 can be used with jumpers type IZUK. One conductor per clamping unit is permitted for all types of terminals.

For technical parameters see Annex to this certificate.

SCHEDULE OF LIMITATIONS:

1. Allowed service temperature range is from -60 °C to +85 °C. Allowed service temperature range for terminal blocks type * NM is from -60°C to +100°C.
2. Sliding bridge of terminals type WGO PB6 (NM), WGO 2N; WGO4 (NM); WGO Y6 shall be tightened down properly and shall be in connected position. Disconnection of sliding bridge is possible only in case of absence of any hazardous atmosphere. Slide Bridge of terminal WGL1, shall be tightened down properly to fix IZUK jumper. Disconnection of sliding bridge from jumper is possible only in case of absence of any hazardous atmosphere.
3. The terminal blocks shall be mounted in enclosures that meet the requirements of an approved type of protection as specified in IEC 60079-0.
4. When installed terminals in an enclosure designed to Increased Safety "e" type of protection as specified in IEC 60079-7, the clearance and creepage distance shall by duly considered.
5. Number of instruction manual is Ex-0032-UM 01.





IECEx Certificate of Conformity

Certificate No.: **IECEx FTZU 16.0003U**

Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 3:

1. Evaluation according to the new edition of the standard IEC 60079-0:2017.

2. Extension of the type series by terminal blocks type AVK * NM, PIK 4NK NM and WGO * NM (see technical parameters). Service temperature of terminals blocks type * NM is from -60°C to +100°C. Technical parameters and construction of terminals blocks type * NM are identical as terminal blocks type AVK *, PIK 4NK and WGO *. Isolating material of terminal block type * NM is made from different material.

Annex:

[Annex_to_IECEx_FTZU_16_0003U_03.pdf](#)





Applicant: **Klemsan Elektrik Elektronik San ve Tic. A.Ş.**
Address: **Kızılızüm Mah.Kızılızüm Cad.No:15; 35730- Kemalpaşa; İZMİR; Turkey**

Electrical Apparatus: **Terminal blocks Type: AVK*; AVKY*; PYK*; PYKM*; PYKMR 2,5; PIK*;
WGO*; WGL 1; WGO PB 6; PB***

Technical parameters of terminals blocks:

Terminal block type	Rated cross section [mm ²]	Range of cross section [mm ²]	Max. current in case of rated cross-section [A]	Rated voltage [V]	Resistance of terminal block in case of rated cross-section [mΩ]
AVK 4R	4	0.5-6	28	630	0.38
AVK 4CC	4	0.5-6	28	500	0.49
AVK 4CE	4	0.5-6	28	500	0.4
AVK 10RD4	10 / 4	1.5-16	43	500	0.3
AVK 25 RD	25	1.5-35	89	630	0.21
AVK 35 RDS / AVK 35 RDS NM	35	6-50	111	800	0.12
AVK 35 IRDS	35	6-50	111	800	0.12
AVK 70 RD	70	16-70	162	630	0.1
AVKY 4	4	0.5-6	28	630	0.24
AVKY 6	6	0.5-10	36	500	0.65
AVKY 10	10	1.5-16	50	500	0.41
PYK 1,5	1.5	0.5-2.5	15	630	0.62
PYK 1,5M	1.5	0.5-2.5	15	500	0.62
PYK 1,5 MC	1.5	0.5-2.5	15	500	0.66
PYK 1,5 ME	1.5	0.5-2.5	15	500	0.63
PYK 2,5C	2.5	0.5-4	21	630	0.46
PYK 2,5E	2.5	0.5-4	21	630	0.44
PYKM 2,5	2.5	0.5-4	21	630	0.43
PYKMR 2,5	2.5	0.5-4	21	630	0.43
PB 6	6	0.5-6	36	630	0.4
PB 6K	6	0.5-6	36	630	0,4
PIK 2,5NK	2.5	0.5-4	19	400	1.1
PIK 4NK / PIK 4NK NM	4	0.5-6	26	320	0.73
PIK 10N	10	1.5-16	50	500	0.36
WGO 2N	10	1.5-16	50	400	0.27
WGO 4 / WGO 4 NM	6	0.5-10	36	400	0.44
WGL 1	6	0.5-10	36 / 36 with IZUK jumper	400	0.6
WGO PB 6 / WGO PB 6 NM	6	0.5-6	36	630	0.56
WGO Y6	6	0.5-10	36 / 36 with IZUK jumper	500	0.63
WGO YD6	6	0.5-10	36 / 36 with IZUK jumper	500	0.58

Temperature rises in case of max. current and nominal cross section did not exceed 40K.





Applicant: **Klemsan Elektrik Elektronik San ve Tic. A.Ş.**
Address: **Kızılüzüm Mah.Kızılüzüm Cad.No:15; 35730- Kemalpaşa; İZMİR; Turkey**

Electrical Apparatus: **Terminal blocks Type: AVK*; AVKY*; PYK*; PYKM*; PYKMR 2,5; PIK*;
WGO*; WGL 1; WGO PB 6; PB***

Technical parameters of earth terminals blocks:

Terminal block type	Rated cross section [mm ²]	Range of cross section [mm ²]
AVK 2,5-4TK / AVK 2,5-4TK NM	4	0.5-6
AVK 10TRD4	10 / 4	1.5-16
AVK 10TK / AVK 10TK NM	10	1.5-16
AVK 35T RDS / AVK 35T RDS NM	35	6-50
AVK 35T IRDS	35	6-50
PYK 1,5T	1.5	0.5-2.5
PYK 1,5MT	1.5	0.5-2.5
PYK 1,5 MCT	1.5	0.5-2.5
PYK 1,5 MET	1.5	0.5-2.5
PYK 2,5CT	2.5	0.5-4
PYK 2,5ET	2.5	0.5-4
PYKM 2,5T	2.5	0.5-4
PB 6T	6	0.5-6
PIK 2,5NT	2.5	0.5-4
PIK 4NT	4	0.5-6

