



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 TUR 18.0022U** Page 1 of 4 **Certificate history:**
Status: **Current** Issue No: 2 **Issue 1 (2020-06-15)**
Date of Issue: **2021-11-11** **Issue 0 (2018-10-16)**
Applicant: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17
D-35102 Lohra-Altenvers
Germany
Ex Component: **Ex d enclosure series T07**

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 db I Mb ; Ex db IIC Gb ; Ex tb IIIC Db**

Marking: **Ex db I Mb**
Ex db IIC Gb
Ex tb IIIC Db

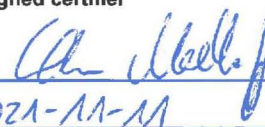
Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)



Date:

2021-11-11

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Date of issue: 2021-11-11

Issue No: 2

Manufacturer: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17
D-35102 Lohra-Altenvers
Germany

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 60079-1:2014-06 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

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:

[DE/TUR/ExTR18.0022/02](#)

Quality Assessment Report:

[DE/BVS/QAR14.0006/06](#)



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

The T07 stainless steel enclosure is available in different sizes.

The characteristic design is always identical. Two side flanges cover a central body. Usually, but not necessarily, one side-flange is used as an optical adapter and the second flange as cable entry. This allows the introduction of one, or several, explosion-proof cable glands and/or compatible sealing plugs. The design allows different and free combinations of bodies and flanges.

The enclosures are suitable for Group I with a low risk of mechanical hazard and zone 1, 2 as well as 21 and 22 including the explosion groups IIC/IIIC with a high risk of mechanical hazard.

Regarding the electrical input, neither limits nor mandatory values have been determined. Surface temperatures or temperatures inside the enclosure which may be caused by thermal dissipation, have to be evaluated in the course of the equipment approval process.

SCHEDULE OF LIMITATIONS:

1. No holes, whether blind or clear, may be drilled in the Ex component enclosure other than already provided by the manufacturer.
2. The content of the Ex component enclosure may be placed in any arrangement, providing that an area of at least 40% (for IIB 20%) of each cross-sectional area remains free to permit unimpeded gas flow and unrestricted development of an explosion.
3. Oil-filled circuit breakers and contactors shall not be used.
4. When evaluating the component enclosure as equipment, the requirements of EN/IEC 60079-1 must be applied.
5. For Group I, the enclosure T07-VA2.x.x.BOR5 is suitable with a low risk of mechanical hazard.
6. All used Cable glands and plugs have to be certified.
7. The housing combinations T07-VA0.x.K1.GER and T07-VA4.x.PS1 may not be used in mining (ATEX group 1) or in areas with high mechanical hazards (ATEX group 2).



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Additional enclosure T07-VA0.4.K1GER included into the certificate.

Annex:

[IECEX_TUR_18.0022_U_00_Attachment.annex2.pdf](#)



Attachment to Certificate
IECEX TUR 18.0022U
Revision 0

Attachment to Certificate IECEX TUR 18.0022U

Device: Ex d Enclosure Series
Type: T07... (Details refer to technical data section)

Manufacturer: SAMCON Prozessleittechnik GmbH

Address: Schillerstraße 17
35102 Lohra- Altenvers, Germany

General product information:

Technical data

All VA1 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA1.x.K1.K1	IP68	-60°C	+160°C
T07-VA1.x.K1.BOR	IP68	-60°C	+160°C

All VA2 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.K3.K3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR5	IP68	-60°C	+160°C

All VA2 bodies shorter/equal to VA2.2.R:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.K1.K1	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR5	IP68	-60°C	+160°C

T07-VA2.x.K2.K2	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR5	IP68	-60°C	+160°C

T07-VA2.x.K3.K3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR5	IP68	-60°C	+160°C

All VA4 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA4.x.K1.K1	IP68	-60°C	+160°C
T07-VA4.x.K1.BOR1	IP68	-60°C	+160°C
T07-VA4.x.K1.BOR2	IP68	-60°C	+160°C



Attachment to Certificate
IECEX TUR 18.0022U
Revision 1

Attachment to Certificate IECEX TUR 18.0022U

Device: Ex d Enclosure Series
Type: T07... (Details refer to technical data section)

Manufacturer: SAMCON Prozessleittechnik GmbH

Address: Schillerstraße 17
35102 Lohra- Altenvers, Germany

General product information:

See Certificate and Issue 00. In the first addendum additional enclosures included into the certificate.

Technical data

All VA0 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA0.x.K1.BOR	IP68	-60°C	+135°C
T07-VA0.x.K1.GER	IP68	-30°C	+135°C

All VA2 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.x.BOR5 (Mining 4J)	IP68	-30°C	+135°C

All VA4 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA4.x.PS1	IP68	-50°C	+135°C



Attachment to Certificate
IECEX TUR 18.0022U
Issue 2

Attachment to Certificate IECEX TUR 18.0022U Issue 2

Device: ExCam Series
Type: T07... (details refer to technical data section)

Manufacturer: SAMCON Prozessleittechnik GmbH

Address: Schillerstraße 17
35102 Lohra- Altenvers, Germany

General product information:
Adding the Models T08-VA0.4.K1, GER

Technical Data:

Maximum ambient temperature range:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA0.x.K1.GER	IP68	-20°C	+135°C

** See power tables, type plate, model key and installation-/user manual!