Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE	MASC MS/18-3256X	**Issue**	1
Issue Date	05 May 2023	**Expiry Date**	08 April 2026
**** Based on Certificate No**	IECEx TUR 18.0023X	**Issue / Variations / Amendment**	2
Requested by	SAMCON Prozessleittechnik GmbH Schillerstraße 17, D-35102 Lohra-Altenvers, Germany		
Manufacturer	SAMCON Prozessleittechnik GmbH Schillerstraße 17, D-35102 Lohra-Altenvers, Germany		
Description	The ExCam Series is an electrical device that is protected by a pressure-resistant (Ex-d) enclosure. The flameproof housings not only make the device flameproof but also robust for a variety of industries and applications. Within the pressure-resistant enclosure, various camera modules and lenses, reflecting different technical specifications, are installed. Accessory components such as PTC heating elements, fans, NIR LEDs, lighting devices, mechanical components, and clamps are optional. Furthermore, the ExCam Series can be used in combination with other IECEx device certified modules such as HF-barriers, cable glands, media-converter, or certified lighting devices ([op is]).		
Equipment	ExCam	**Type**	T08
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:** **IA Number:** **Warnings:**	ExCam Series T08 Ex db I Mb* Ex db IIC T6 Gb* Ex tb IIIC T80°C Db* *see marking and annex MASC MS/18-3256X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):		DE/BVS/QAR14.0006/09	
Quality Assurance report (QAR) / Notification (QAN) Expiry date:		08 April 2026	

Compliance:

The equipment as described above has been allocated the rating Explosion Protected 'as above' utilizing the SANS/IEC Standards:

- SANS (IEC) 60079-0: 2019 Equipment - General requirements
- SANS (IEC) 60079-1: 2015 Equipment protection by flameproof enclosures "d"
- SANS (IEC) 60079-11: 2012 Equipment protection by intrinsic safety "i"
- SANS (IEC) 60079-18: 2022 Protection by encapsulation "m"
- SANS (IEC) 60079-28: 2016 Protection of equipment and transmission systems using optical radiation
- SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t"

Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.

Special conditions of safe use "X":

- Refer to Annex A below for more details.

Conditions of manufacture:

- Refer to Annex A below for more details.

C. WELTHAGEN
TECHNICAL SPECIALIST

N. VILOJEN
TECHNICAL OFFICER

This certificate covers all units sold as long as the QAR/QAN remains valid.
According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:
SANS 10086 requirements;
Any conditions mentioned in the above certificate;
Any relevant requirements of the MHS Act;
Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

Mining And Surface Certification (Pty) Ltd
Unit 5 Lelyta Park, 45 Jurg Avenue, Hennopspark, Ext 87
Centurion 0157

IA CERTIFICATE: MASC MS/18-3256X
Equipment: ExCam Series T08
(Expiry date: 08 April 2026)

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx TUR 18.0023X.	
Description (According to Base Certificate) **	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
Standard compliance	See Base Certificate ******
Special conditions of safe use ("X")	• When installing the ExCam, the requirements of IEC 60079-14 must be applied. • For Group I and T08-VA2.x.x.BOR5 models, the enclosure is only suitable with a low risk of mechanical hazard Tamb >= -30°C. • All used cable glands and plugs have to be certified. • 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).
Conditions of manufacture	• None.
Conditions of Certification	• This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. • As per ARP 0108 a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date). • The apparatus must be additionally marked with the MASC marking details above. • This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. • The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. • The certification on which this IA Certificate is based must remain valid. • The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. • The Ex-quality assurance notification/report for the equipment must remain valid.
Conclusion:	• From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. • The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).

Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07
Directors: Roelof Viljoen & Francoius du Toit
Unit #5, Lelyta Park, 45 Jurg Avenue, Hennopspark Ext 87, Centurion, 0157
P.O. Box 14344, Clubview, 0014
Tel: 012 653 2959 ◊ Fax: 086 605 8568
e-mail: **info@masc-ex.co.za**

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 TUR 18.0023X**

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Certificate history:
Issue 1 (2020-08-06)
Issue 0 (2018-10-16)

Status: **Current**

Issue No: 2

Date of Issue: 2021-11-11

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

Equipment: **ExCam Series T08**

Optional accessory:

Type of Protection: **db tb**

Marking: Ex db I Mb*

Ex db IIC T6 Gb*

Ex tb IIIC T80°C Db*

* see marking and annex

Approved for issue on behalf of the IECEx Certification Body: **Christian Mehrhoff**

Position: **Assigned certifier**

Signature:
(for printed version)

Date:
(for printed version)

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

IECEx Certificate of Conformity

Certificate No.: **IECEx TUR 18.0023X** Page 2 of 4

Date of issue: 2021-11-11 Issue No: 2

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

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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/ExTR18.0023/02

Quality Assessment Report:

DE/BVS/QAR14.0006/06

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The ExCam Series is an electrical device that is protected by a pressure-resistant (Ex-d) enclosure.

The flameproof housings not only make the device flameproof but also robust for a variety of industries and applications.

Within the pressure-resistant enclosure, various camera modules and lenses, reflecting different technical specifications, are installed.

Accessory components such as PTC heating elements, fans, NIR LEDs, lighting devices, mechanical components, and clamps are optional. Furthermore, the ExCam Series can be used in combination with other IECEx device certified modules such as HF-barriers, cable glands, media-converter, or certified lighting devices ([op is]).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When installing the ExCam, the requirements of IEC 60079-14 must be applied.
2. For Group I and T08-VA2.x.x.BOR5 models, the enclosure is only suitable with a low risk of mechanical hazard Tamb >= -30°C.
3. All used cable glands and plugs have to be certified.
4. 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).

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Adding the Model T08-VA0.4.K1.GER

Annex:

IECEx_TUR_18.0023_X_00_Attachment.annex2.pdf

Attachment to Certificate IECEx TUR 18.0023X Issue 2

Device: **ExCam Series**
Type: **T08…** (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:	**Maximum ambient temperature range**
T08-VA0.4.K1.GER...:...:	-20°C ≤ T_{amb} ≤ +xxx°C **

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