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 S/23-8118X	**Issue**	0
Issue Date	27 March 2023	**Expiry Date**	17 May 2024
**** Based on Certificate No**	IECEx ULD 22.0011X	**Issue / Variations / Amendment**	0
Requested by	**Axis Ex AB** Gränden 1 , 223 69 Lund Sweden		
Manufacturer	**Axis Ex AB** Gränden 1, Lund 223 69 Sweden		
Description	The Bullet Camera, model AXIS P1468-XLE comprises a mounting base, an incoming wiring and electronics chamber, a multi-positional arm and ball joint, and the camera itself in a camera housing. A weather shield can be fitted and removed without use of tools. The camera housing and weather shield is non-metallic in construction, the rest of enclosure is manufactured with aluminium and powder coated finish. Power and communications with the bullet camera is via PoE or dc input and separate communications (control and audio). An onboard socket allows for installation of a memory card for local storage. A factory fitted battery is for real-time clock. An infrared light source provides night-time illumination for low-light operation and internal heaters operate when required, to maintain the internal ambient of the bullet camera within an operational range. Please see Annex of Base Certificate for additional information.		
Equipment	Bullet Camera	**Type**	AXIS P1468-XLE
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:** **IA Number:** **Warnings:**	Bullet Camera, Model AXIS P1468-XLE Ex ec IIC T4 Gc Ex tb IIIC T135°C Db -40 °C to +60 °C MASC S/23-8118X(To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):		GB/EXV/QAR21.0005/01	
Quality Assurance report (QAR) / Notification (QAN) Expiry date:		17 May 2024	

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) 60079-7: 2019 Equipment protection by increased safety "e"
- 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 S/23-8118X
Equipment: Bullet Camera
(Expiry date: 17 May 2024)

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx ULD 22.0011X.	
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")	From 60079-0: • Take precautions to minimise the risk of electrostatic charging – refer to installation instructions. • Capacitance of accessible metal parts of the equipment is 85.4pF and shall be considered in the specific application. • Equipment must not be exposed to impact energy exceeding 2 Joules to the window, and 4 Joules to the rest of the body. • Orientation of the product must be in accordance with the installation instructions. From 60079-7: • The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1. • Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment
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).

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 ULD 22.0011X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2023-01-30

Applicant: **Axis Ex AB**
Gränden 1
Lund 223 69
Sweden

Equipment: **Bullet Camera, Model AXIS P1468-XLE**

Optional accessory:

Type of Protection: **Increased Safety "ec", Dust Ignition Protection by Enclosure "tb"**

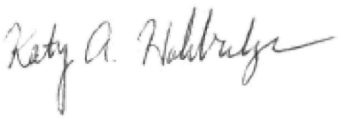
Marking: Ex ec IIC T4 Gc
Ex tb IIIC T135°C Db

-40 °C to +60 °C

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature: (for printed version)



Date: (for printed version) 2023-01-30

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:

UL International DEMKO A/S
Borupvang 5A
DK-2750 Ballerup
Denmark

IECEx Certificate of Conformity

Certificate No.: **IECEx ULD 22.0011X** Page 2 of 3

Date of issue: 2023-01-30 Issue No: 0

Manufacturer: **Axis Ex AB**
Gränden 1
Lund 223 69
Sweden

Manufacturing locations: **Axis Ex AB**
Gränden 1
Lund 223 69
Sweden

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 60079-31:2013 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:

DK/ULD/ExTR22.0010/00

Quality Assessment Report:

GB/EXV/QAR21.0005/01

IECEx Certificate of Conformity

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

The Bullet Camera, model AXIS P1468-XLE comprises a mounting base, an incoming wiring and electronics chamber, a multi-positional arm and ball joint, and the camera itself in a camera housing. A weather shield can be fitted and removed without use of tools.

The camera housing and weather shield is non-metallic in construction, the rest of enclosure is manufactured with aluminium and powder coated finish. Power and communications with the bullet camera is via PoE or dc input and separate communications (control and audio). An onboard socket allows for installation of a memory card for local storage. A factory fitted battery is for real-time clock.

An infrared light source provides night-time illumination for low-light operation and internal heaters operate when required, to maintain the internal ambient of the bullet camera within an operational range.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:
From 60079-0:

- Take precautions to minimise the risk of electrostatic charging – refer to installation instructions.
- Capacitance of accessible metal parts of the equipment is 85.4pF and shall be considered in the specific application.
- Equipment must not be exposed to impact energy exceeding 2 Joules to the window, and 4 Joules to the rest of the body.
- Orientation of the product must be in accordance with the installation instructions.

From 60079-7:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment

Annex:

Annex to IECEx ULD 22.0011X Issue 0.pdf

IECEx Certificate of Conformity

Certificate No.: IECEx ULD 22.0011X Issue No.: 0

TYPE DESIGNATION

'P1468-XLE'

- P – Product line
- 1 – Product type
- 4 - Product Series
- 6 – Serial Number
- 8 – Resolution 3840x2160
- -
- X – Ex Classified
- L – IR-Illumination
- E - Outdoor

PARAMETERS RELATING TO THE SAFETY

PoE Class 3 input -
44-57V, 0.27A maximum, 12.95W maximum
DC input -
12-28Vdc, 1.12A maximum, 12.95W maximum.

IECEx Certificate of Conformity

MARKING

Marking has to be readable and indelible; it has to include the following indications: