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/22-8127X	**Issue**	0
Issue Date	3 March 2022	**Expiry Date**	17 May 2024
**** Based on Certificate No**	IECEx EXV 20.0017X	**Issue / Variations / Amendment**	1
Requested by	Axis Communications AB Emdalavägen 14, SE-223 69 Lund, Sweden		
Manufacturer	Axis Ex AB Gränden 1, Lund 223 69, Sweden		
Description	Axis Ex Series Fixed Types F31, F33, PTZ Types P21, P23 Camera Station systems comprise fixed (static) camera stations and motorised pan-tilt-zoom (PTZ) camera stations allowing up to 360° viewing depending on mounting arrangement and location. The camera stations are designed to allow either high definition colour image generation or the use of infrared commonly used in night vision or thermal measurement applications. Image transmission from the camera stations is achieved via various media including Ethernet, coaxial or fibre optics which is also the media that contains operator input to camera functionality, for example positioning or zoom functions. Each camera station is designed specifically for use in harsh and hazardous environments and uses 316L stainless steel and toughened glass as core materials. The IR variants utilise Germanium with a guard for impact protection. The static camera variants consist of one flame-proof enclosure whilst the PTZ versions consist of three interlinking flame-proof enclosures allowing full positioning mobility. IP rated for levels of protection IP66/IP67/IP68		
Equipment	Fixed	**Type**	F31, F33, PTZ Types P21, P23
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:**	Fixed Types F31, F33, PTZ Types P21, P23 Ex db I Mb Ex db IIC T6 - T4 Gb Ex tb IIIC T85°C -T135°C Db Tamb -60°C to +60°C	
	IA Number: **Warnings:**	MASC MS/22-8127X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):	GB/EXV/QAR21.0005/00		
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) 60079-1: 2015 Equipment protection by flameproof enclosure "d"
- 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. VILJOEN
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

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx EXV 20.0017X	
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")	• Flameproof joints are not to be modified • Cable temperature can exceed 60°C – select suitable cable for the end application • Yield Strength of the end cap fasteners is A4-80 • Equipment must be placed in an area where there is low risk of mechanical damage
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).