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/20-8436X	**Issue**	1
Issue Date	30 April 2024	**Expiry Date**	30 April 2027
**** Based on Certificate No**	IECEx BVS 09.0037X	**Issue / Variations / Amendment**	2
Requested by	**Pepperl+Fuchs (Pty) Ltd** Zerwick Forum, 8 Glen Eagle Office Park Cnr Monument Rd and Braambos St, Glen Erasmia, Kempton Park 1619, South Africa		
Manufacturer	**Pepperl+Fuchs SE** Lilienthalstrasse 200, 68307 Mannheim, Germany		
Description	Remote I/O-Devices type LB*1*** listed above provide safe galvanic separation between intrinsically safe input / output circuits (Level of Protection 'ia' or 'ib') and non-intrinsically safe circuits. Remote I/O-Devices type LB*0*** listed above provide safe galvanic separation between intrinsically safe input / output circuits (Level of Protection 'ic') and non-intrinsically safe circuits. The front of the housings shows up to two 6 pole or 8 pole sockets for inputs or outputs. These are connected via plug in connectors with side screw or front screw or cage clamp wire fasteners. See Base Certificate** annex for more information.		
Equipment	Electronic Remote I/O Input/Output-Device	**Type**	LB*1***, LB*0***; LB6x***, LB81***; ISCM8100*, LTBM8001*, LB9x***
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:** **IA Number:** **Warnings:**	Electronic Remote I/O Input/Output-Device types LB*1***, LB*0***; LB6x***, LB81***; ISCM8100*, LTBM8001*, LB9x*** See Base Certificate** MASC MS/20-8436X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):		DE/PTB/QAR06.0008/20	

Compliance:

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

- SANS (IEC) 60079-0: 2012 Equipment - General requirements
- SANS (IEC) 60079-11: 2012 Equipment protection by intrinsic safety "i"
- SANS (IEC) 60079-15: 2010 Equipment protection by type of protection "n"

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/20-8436X
Equipment: Electronic Remote I/O Input/Output-Device
(Expiry date: 30 April 2027)

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx BVS 09.0037X.	
Description (According to Base Certificate) **	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
Issue	Issue 1: Supplemented for review as per ARP 0108.
Standard compliance	See Base Certificate **
Special conditions of safe use ("X")	**General:** • The devices shall only be used together with the respective backplanes, subject to other CoCs. Installation in the safe area: **The devices must be installed** • in an enclosure complying with IEC 60079-0 providing degree of IP protection IP54 according to IEC 60529 or • in a controlled environment providing pollution degree 2 according to IEC 60664-1. **Installation in areas requiring EPL Gc equipment (Zone 2):** • The devices shall be installed in an enclosure corresponding at least to EPL Gc according IEC 60079-0 / -15 and providing degree of IP protection IP54 according to IEC 60529.
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
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