





## 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

	MACHINE	IN REGULATIONS		
IA CERTIFICATE	MASC S/20-8434X	Issue	1	
Issue Date	30 April 2024	Expiry Date	30 April 2027	
** Based on Certificate No	IECEx BVS 16.0047X		ons / Amendment 1	
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	The backplanes are designed as a rack, mountable on DIN-Rails, comprising of a base panel with DIN-Rail hooks at the rear side, positioning / mechanical fixing assemblies for LB-I/O-Modules and a printed circuit board at the front side. The printed circuit board, which carries non-intrinsically safe circuits only, is fitted with connectors for the external connections (external power supplies / data interfaces / extension interface / shutdown inputs and LB-I/O-Modules. For use of backplanes fitted with LB-I/O-Modules providing intrinsically safe circuits, safety-related maximum voltages (Um) for the non-intrinsically safe circuits are defined in 'Rating'. Listing of all components used to refer to older standards: not applicable. See Base Certificate** for additional information.			
Equipment	Backplane		2xBP*, LB903xBP*	
MARKING:	Type:	Backplane type	LB902xBP*, LB903xBP*	
Original marking as per	Ex Marking:	Ex nA IIC T4 Gc (or optional) Ex nAc IIC T4		
certificate ** remains	IA Number:	MASC S/20-8434X (To be additionally marked on equipment)		
applicable.	Warnings:	See Base Certificate ** (original marking must be applied)		
IA number must be added.			(enginal maning matrix of applied)	
Quality Assurance report (0	QAR) / Notification (QAN):	DE/PTB/QAR06	6.0008/20	
Standards: SANS (IEC) 60079-0: SANS (IEC) 60079-15: Note: This certificate covers	2012 Equipment - General re 2010 Equipment protection by	quirements y type of protection the section of the	pliance to any other standard, related or inferred. It	
Special conditions of safe u	ise "X":			
Refer to Annex A below				
Conditions of manufacture:				
Refer to Annex A below	for more details.			
ha	ll .		Nitjoen.	
C. WELTHAGEN			N. VILOJEN	
TECHNICAL S			TECHNICAL OFFICER	
According to the relevant requiremen	This certificate covers all units so ts of the MHS Act and the OHS Act, produ assurance (an approved mark scheme	ction units of explosion	protected equipment are required to comply with third party quality	
L	assurance (an approved mark scheme	or paton testing by an a	accredited test radoratory).	

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).

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

IA CERTIFICATE: MASC S/20-8434X

Equipment: Backplane type LB902xBP\*, LB903xBP\*

(Expiry date: 30 April 2027)

Page 2 of 2

## ANNEX A

Inis	document is based on and must be read in conjunction with certificate IECEx BVS 16.0047X.
	Description (According to Base Certificate) **
"Refer to description i	n 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")	<ul> <li>General</li> <li>The backplanes shall be connected to 'safety extra low-voltage' (SELV) circuits or to 'protected extra low-voltage' (PELV) circuits providing safe galvanic segregation.</li> <li>All circuits connected to the backplanes shall comply with overvoltage category II according to IEC/EN 60664-1. The backplanes shall be installed and operated only in environmental conditions providing pollution degree 2 according to IEC 60664-1 as a minimum. In case of operation in environments with increased degree of pollution, the device shall be protected accordingly.</li> <li>Installation in the save area</li> <li>The device must be installed and operated only in surrounding enclosures that</li> <li>comply with the requirements for surrounding enclosures according to IEC 60529.</li> <li>Alternatively, it is permitted to install and operate the device in a controlled environment that ensures a degree of protection IP20 according to IEC 60529.</li> <li>Installation in EPL Gc area</li> <li>The device must be installed and operated only in surrounding enclosures that</li> <li>comply with the requirements for surrounding to IEC 60529.</li> <li>Installation in EPL Gc area</li> <li>The device must be installed and operated only in surrounding enclosures that</li> <li>comply with the requirements for surrounding to IEC 60529.</li> </ul>
Conditions of	None.
manufacture	
Conditions of Certification	<ul> <li>This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate.</li> <li>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).</li> <li>The apparatus must be additionally marked with the MASC marking details above.</li> <li>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.</li> <li>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.</li> <li>The certification on which this IA Certificate is based must remain valid.</li> <li>The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable</li> </ul>
	regulations on the certification of the equipment must remain unchanged.
Conclusion:	<ul> <li>The Ex-quality assurance notification/report for the equipment must remain valid.</li> <li>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 **.</li> <li>The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).</li> </ul>

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any errorneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / inspection.

MASC takes no responsibility for any non-conformances, exclusions, or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation comples with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.

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