



# 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/20-8433X	Issue	1		
Issue Date	30 April 2024	Expiry Date	30 April 2027		
** Based on Certificate No	IECEx EXA 13.0003X		ations / Amendment 2		
Requested by	Pepperl+Fuchs (Pty) Ltd	_			
, , , , , , , ,		Office Park Cnr Monument Rd and Braambos St,			
	Glen Erasmia, Kempton Park				
Manufacturer	Pepperl+Fuchs SE				
	Lilienthalstrasse 200, 68307	halstrasse 200, 68307 Mannheim, Germany			
Description	The modules LB1x09 * (x = "0" or "1") are using the same hardware; the difference is in claiming				
	different level of protection for the inputs only. The modules are associated apparatus according to				
	IEC 60079-11 and non-arcing equipment according IEC 60079-15. They can be installed in Zone				
	2 or safe area. The modules can be operated as 8-channel digital input devices according to				
	Namur Standard (8.2 V supply). Mechanical contacts (dry contacts) are also permissible.				
Foreigner		for other information and electrical parameters.			
Equipment	Input Module for Remote	31.	x09*"		
MADIZING:	I/O-System	"LB"	D4v00*" for Damata I/	O Custom "I D"	
MARKING:	Type:	Input Module "LB1x09*" for Remote I/O-System "LB"			
Original marking as per	Ex Marking:	LB1009 * (gas): Ex nA [ic] IIC T4 Gc, or Ex nAc [ic] IIC T4			
certificate ** remains		LB1109 *(gas): Ex nA [ia Ga] IIC T4 Gc, or Ex nAc [ia] IIC T4			
applicable.		LB1109 * (dust): [Ex ia Da] IIIC, or [Ex ia] IIIC			
IA number must be added.		<b>LB1109 * (mines):</b> [Ex ia Ma] I, or [Ex ia] I			
	IA Number:	MASC MS/20-8433X (To be additionally marked on equipment)			
	Warnings:		ficate ** (original mark	ing must be applied)	
Quality Assurance report (C	DE/PTB/QAR06.0008/20				
Compliance:					

#### Compliance:

The equipment as described above has been allocated the rating <u>Explosion Protected 'as above'</u> 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;
as and conditions enforced by the chief inspector of mines, pri

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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## IA CERTIFICATE: MASC MS/20-8433X

# Equipment: Input Module "LB1x09\*" for Remote I/O-System "LB" (Expiry date: 30 April 2027)

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#### **ANNEX A**

This	document is based on and must be read in conjunction with certificate IECEx EXA 13.0003X.			
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")	<ul> <li>All circuits connected to the device must comply with overvoltage category II (or better) according to IEC 60664-1,</li> <li>SELV/PELV power supply is required to supply the LB-system,</li> <li>The device must only be used together with the respective backplanes,</li> <li>The device must be installed and operated only in an environment that ensures a pollution degree of 2 (or better) according to IEC 60664-1. Installation in safe area: The device must be installed: <ul> <li>in an enclosure with a degree of protection at least IP54 according to IEC 60529 and fulfilling requirements of IEC 60079-0 for enclosures or</li> <li>in a controlled environment providing pollution degree 2, or better.</li> </ul> </li> <li>Installation in areas requiring category equipment 3G:</li> <li>The equipment shall be installed in an enclosure that fulfil the requirements of IEC 60079-15 / IEC 60079-0 for the zone of installation and provide a degree of protection not less than IP 54 in accordance to IEC 60529.</li> </ul>			
Conditions of manufacture	• None.			
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 regulations on the certification of the equipment must remain unchanged.</li> <li>The Ex-quality assurance notification/report for the equipment must remain valid.</li> </ul>			
Conclusion:	<ul> <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 erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / 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 complies 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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This document will not be supported by MASC for certification purposes outside the borders of South Africa.