





# Mining And Surface Certification (Pty) Ltd

2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

<b>IA CERTIFICATE</b>	MASC S/18-2697	<b>Issue</b>	1
<b>Issue Date</b>	10 August 2021	<b>Expiry Date</b>	23 July 2024
<b>*Based on Certificate No</b>	IECEX PTB 03.0003	<b>Issue / Variations / Amendment</b>	4
<b>Requested by</b>	Pepperl+Fuchs (Pty) Ltd 1st fl Zerwick Forum, Glen Eagle Office Park, Cnr Monument Rd and Braambos St, Glen Erasmia, Kempton Park 1619 South Africa		
<b>Manufacturer</b>	Pepperl+Fuchs SE Lilienthalstrasse 200, 68307 Mannheim Germany		
<b>Description</b>	The field bus barrier, type **D0-FB-EX*. **** is used for the supply of intrinsically safe field equipment as well as for the bidirectional transmission of field bus signals. Up to four intrinsically safe outputs comply with FISCO and may be interconnected to field equipment of both, the Profibus PA and the Foundation Fieldbus. The permissible range of the ambient temperature for type F2D0-FB-Ex*. **** is -40 °C up to +70 °C. The permissible range of the ambient temperature for type RD0-FB-Ex*. **** is -50 °C up to +70 °C. See base certificate for the rest of the description.		
<b>Equipment</b>	Field bus barrier	<b>Type</b>	**D0-FB-EX*. ****
<b>MARKING:</b> Original marking as per certificate * remains applicable. IA number to be added.	<b>Type</b> <b>Ex Marking</b>  <b>IA Number</b> <b>Warnings</b>	Field bus barrier, type **D0-FB-EX*. **** <b>for type RD0-FB-Ex*. ****:</b> Ex eb mb [ia Ga] IIC T4 Gb [Ex ia Da] IIC Tamb -50 °C to +70 °C MASC S/18-2697 See Base Certificate * and original marking <b>for type F2D0-FB-Ex*. ****:</b> Ex eb mb [ia Ga] IIC T4 Gb Ex tb [ia Da] IIC 130 °C Db Tamb -40 °C to +70 °C	
<b>Quality Assurance report (QAR) / Notification (QAN):</b>	DE/PTB/QAR06.0008/16		
<b>Quality Assurance report (QAR) / Notification (QAN) Expiry date:</b>	23 July 2024		
<b>Compliance:</b>	The equipment as described above has been allocated the Explosion Protected per rating above utilizing the SANS/IEC Standards: <ul style="list-style-type: none"> <li>• SANS (IEC) 60079-0: 2019 Explosive atmospheres - Part 0: Equipment - General Requirements</li> <li>• SANS (IEC) 60079-7: 2015 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"</li> <li>• SANS (IEC) 60079-11: 2012 Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"</li> <li>• SANS (IEC) 60079-18: 2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"</li> <li>• SANS (IEC) 60079-31:2014 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"</li> </ul>		
<b>Special conditions of safe use "X":</b>	<ul style="list-style-type: none"> <li>• See "Annex A" below</li> </ul>		
<b>Conditions of manufacture:</b>	<ul style="list-style-type: none"> <li>• See "Annex A" below</li> </ul>		
 <b>N Viljoen</b> <b>TECHNICAL OFICER</b>	 <b>D.P Visser</b> <b>TECHNICAL SPECIALIST</b>		
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 report  
 Any restrictions and conditions enforced by the chief inspector of mines or chief inspector of factories  
 Any relevant requirements of the MHS Act.

/ . ANNEX A...

This certificate may only be reproduced in full.  
 This certificate is not transferable and remains the property of the issuing body

Mining And Surface Certification (Pty) Ltd  
 Unit 5 Lelyta Park, 45 Jurg Ave, Hennospark Ext 87  
 Centurion, 0157

# IA CERTIFICATE: MASC S/18-267

## Equipment: Field bus barrier

### ANNEX A

This document is based on and must be read in conjunction with certificate IECEx PTB 03.0003.	
<b>Description (According to Base Certificate *)</b>	
"Refer to description in Base Certificate * (and any applicable schedules/issues/variatioins)."	
<b>Issue</b>	Issue 1: Supplemented for review as per ARP 0108.
<b>Standard compliance</b>	See Base Certificate *
<b>Special conditions of safe use ("X")</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Conditions of manufacture</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Conditions of Certification</b>	<ul style="list-style-type: none"> <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>
<b>Conclusion:</b>	<ul style="list-style-type: none"> <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