



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 S/26-8147X	Issue	0
Issue Date	02 April 2026	Expiry Date	02 April 2029
** Based on Certificate No	DEKRA 11ATEX0080X	Issue / Variations / Amendment	7
Requested by	Beckhoff Automation (Pty) Ltd 7 Ateljee Street, Randpark Ridge, Randburg		
Manufacturer	Beckhoff Automation GmbH & Co. KG Hülshorstweg 20, 33415 Verl, Germany		
Description	Fieldbus Components / EtherCAT Box Modules Type EP ... for use in I/O and Fieldbus systems. See Base Certificate** Annex 1 to test report NL/DEK/ExTR23.0014/01 for description, type code electrical and thermal data.		
Equipment	Fieldbus Components / EtherCAT Box Modules	Type	EP ...
MARKING: Original marking as per certificate ** remains applicable. IA number must be added.	Type: Ex Marking: IA Number: Warnings:	Fieldbus Components / EtherCAT Box Modules Type EP ... Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc MASC S/26-8147X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN):	"It is a requirement under ATEX that all equipment for category 1 and 2 areas must have 3rd party quality assurance from a notified body. This is accepted to cover the equipment's quality requirements."		
Compliance: The equipment as described above has been allocated the rating <u>Explosion Protected 'as above'</u> utilizing the SANS/IEC Standards: <ul style="list-style-type: none"> SANS (IEC) 60079-0: 2019 Equipment - General requirements SANS (IEC) 60079-7: 2019 Equipment protection by increased safety "e" SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t" <i>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.</i>			
Specific conditions of use "X": <ul style="list-style-type: none"> Refer to Annex A below for more details. 			
Conditions of manufacture: <ul style="list-style-type: none"> Refer to Annex A below for more details. 			
 S. JORDAAN TECHNICAL SPECIALIST		 N. VILOJEN TECHNICAL OFFICER	
<small>This certificate covers all units sold as long as the QAR/QAN remains valid.</small>			
<small>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).</small>			

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).

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

IA CERTIFICATE: MASC S/26-8147X
Equipment: Fieldbus Components / EtherCAT Box Modules
(Expiry date: 02 April 2029)

ANNEX A

This document is based on and must be read in conjunction with certificate DEKRA 11ATEX0080X.	
Description (According to Base Certificate) **	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
Standard compliance	See Base Certificate **
Specific conditions of use ("X")	<ul style="list-style-type: none"> • To avoid and electrostatic charge, wipe the enclosure surface with a damp cloth only. • The equipment shall only be used in an environment where it is protected against exposure to UV light. • The modules should be installed in a protective enclosure that guarantees a protection against mechanical hazards, according to the documentation. • For use in Zone2/22 the equipment shall be installed in a suitable protective housing that meets the requirements of the impact resistance test according to EN IEC 60079-0. <p><u>When used in area requiring the use of equipment with EPL Gc, the following additional conditions apply:</u></p> <ul style="list-style-type: none"> • The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1. • Provisions shall be made to prevent the rated voltages from being exceeded by transient disturbance of more than 40%. • Fieldbus connectors may only be disconnected or connected when the system supply is switched off, or when the location is known to be non-hazardous. • Address selectors and ID switches may only be adjusted when the system supply is switched off, or when the location is known to be non-hazardous.
Conditions of manufacture	<ul style="list-style-type: none"> • None.
Conditions of Certification	<ul style="list-style-type: none"> • This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. • As per ARP 0108: 2018 / NCoP 2398: 2022 (as applicable) 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 0108:2018 / NCoP 2398: 2022 (as applicable), 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:	<ul style="list-style-type: none"> • 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).

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.

This document may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing body.
This document will not be supported by MASC for certification purposes outside the borders of South Africa.

CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **DEKRA 11ATEX0080X** Issue Number: **7**

(4) Product: **Fieldbus Components / EtherCAT Box Modules Type EP ...**

(5) Manufacturer: **Beckhoff Automation GmbH & Co. KG**

(6) Address: **Hülshorstweg 20, 33415 Verl, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report mentioned in item (16).

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-7 : 2015 + A1 : 2018

EN 60079-31 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:



**II 3 G
II 3 D**

**Ex ec IIC T4 Gc and
Ex tc IIIC T135 °C Dc**

Date of certification: **4 March 2025**

DEKRA Certification B.V.

R. Schuller
Certification Manager

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 11ATEX0080X**

Issue No. 7

(15) **Description**

Fieldbus Components / EtherCAT Box Modules Type EP ... for use in I/O and Fieldbus systems.

For description, type code and thermal data, see Annex 1 to test report mentioned in item (16).

Electrical data

For electrical data of the supply and the input and output circuits, see Annex 1 to test report mentioned in item (16).

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR23.0014/01

(17) **Specific conditions of use**

To avoid an electrostatic charge, wipe the enclosure surface with a damp cloth only.

The equipment shall only be used in an environment where it is protected against exposure to UV light.

The modules should be installed in a protective enclosure that guarantees a protection against mechanical hazards, according to the documentation.

For use in Zone 2/22 the equipment shall be installed in a suitable protective housing that meets the requirements of the impact resistance test according to EN IEC 60079-0.

When used in an area requiring the use of equipment with EPL Gc, the following additional conditions apply:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

Provisions shall be made to prevent the rated voltages from being exceeded by transient disturbances of more than 40%.

Fieldbus connectors may only be disconnected or connected when the system supply is switched off, or when the location is known to be non-hazardous.

Address selectors and ID switches may only be adjusted when the system supply is switched off, or when the location is known to be non-hazardous.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 11ATEX0080X**

Issue No. 7

(19) **Test documentation**

As listed in test report mentioned in item (16).