



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/26-8140X	Issue	0
Issue Date	02 April 2026	Expiry Date	02 April 2029
** Based on Certificate No	IECEX BVS 17.0102X	Issue / Variations / Amendment	0
Requested by	Beckhoff Automation (Pty) Ltd 7 Ateljee Street, Randpark Ridge, Randburg		
Manufacturer	Beckhoff Automation GmbH & Co.KG Hülshorstweg 20, 33415 Verl, Germany		
Description	The built-in Panel PC type CPX27**-* ^{****} as well as the Panel type CPX29**-* ^{****} are developed for the use in hazardous areas requiring EPL Gc and Dc. They are designed for installation in the front of a control cabinet. All connections to the panel are realized by plugs and sockets installed within this cabinet. See Base Certificate** Annex for subject and type.		
Equipment	Panel PC or Panel	Type	CPX27**-* ^{****} or CPX29**-* ^{****}
MARKING: Original marking as per certificate ** remains applicable. IA number must be added.	Type:	Panel PC type CPX27**-* ^{****} or Panel type CPX29**-* ^{****}	
	Ex Marking:	Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc	
	IA Number:	MASC S/26-8140X (To be additionally marked on equipment)	
Quality Assurance report (QAR) / Notification (QAN):	Warnings:	See Base Certificate ** (original marking must be applied)	
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: 2012 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/26-8140X

Equipment: Panel PC or Panel
(Expiry date: 02 April 2029)

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ANNEX A

This document is based on and must be read in conjunction with certificate IECEx BVS 17.0102X.	
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">• The panel shall be built in the wall of a control cabinet fulfilling all relevant clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-31.• The panel itself fulfills all mechanical requirements according to IEC 60079-0 and the degrees of protection IP54 resp. IP6X according to IEC 60529 if mounted according to the user's manual.• The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.• Transient protection shall be provided that is set at a level not exceeding 119 V.• The panel shall not be exposed to direct sunlight.• The panel shall only be mounted vertically in landscape format.
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.

Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07
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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BVS 17.0102X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2018-02-22
Applicant: **Beckhoff Automation GmbH & Co.KG**
Hülshorstweg 20
33415 Verl
Germany
Equipment: **Panel PC type CPX27**-**** or Panel type CPX29**-******
Optional accessory:
Type of Protection: **Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**
Marking: Ex ec IIC T4 Gc
Ex tc IIIC T135°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0102X**

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Date of issue: 2018-02-22

Issue No: 0

Manufacturer: **Beckhoff Automation GmbH & Co.KG**
Hülshorstweg 20
33415 Verl
Germany

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR18.0014/00](#)

Quality Assessment Report:

[DE/BVS/QAR16.0010/01](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0102X**

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Date of issue: 2018-02-22

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description:

The built-in Panel PC type CPX27**-**** as well as the Panel type CPX29**-**** are developed for the use in hazardous areas requiring EPL Gc and Dc.

They are designed for installation in the front of a control cabinet.

All connections to the panel are realized by plugs and sockets installed within this cabinet.

Subject and type:

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

The panel shall be built in the wall of a control cabinet fulfilling all relevant clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-31.

1. The panel itself fulfills all mechanical requirements according to IEC 60079-0 and the degrees of protection IP54 resp. IP6X according to IEC 60529 if mounted according to the user's manual.
2. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
3. Transient protection shall be provided that is set at a level not exceeding 119 V.
4. The panel shall not be exposed to direct sunlight.
5. The panel shall only be mounted vertically in landscape format.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0102X**

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Date of issue: 2018-02-22

Issue No: 0

Equipment (continued):

Parameters:

Electrical data

Supply	DC	24	V
Max. power consumption			
Type CPX2715-****		25	W
Type CPX2719-****		32	W
Type CPX2721-****		40	W
Type CPX2915-****		20	W
Type CPX2919-****		25	W
Type CPX2921-****		35	W

Thermal data

Permitted ambient temperature range	0 up to +55 °C
Temperature class	T4
Maximum surface temperature T	135 °C

Annex:

[BVS_17_0102X_Beckhoff_Annex.pdf](#)



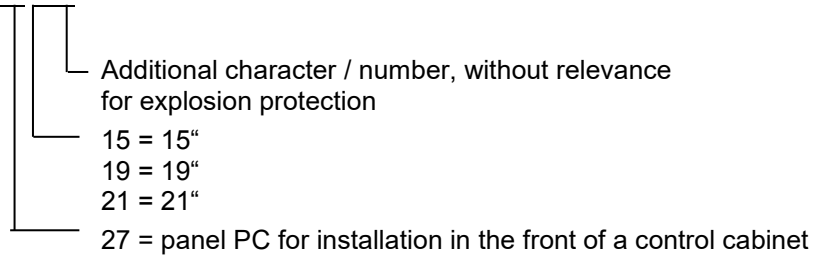
IECEX Certificate of Conformity



Certificate No.: IECEx BVS 17.0102X
Annex
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Subject and type:

Panel PC type CPX27**_****



Panel type CPX29**_****

