
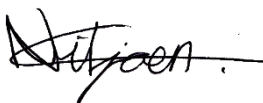




# Mining And Surface Certification (Pty) Ltd

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

<b>IA CERTIFICATE</b>	MASC S/26-8148X	<b>Issue</b>	0
<b>Issue Date</b>	02 April 2026	<b>Expiry Date</b>	02 April 2029
<b>** Based on Certificate No</b>	IECEx EPS 20.0045X	<b>Issue / Variations / Amendment</b>	1
<b>Requested by</b>	<b>Beckhoff Automation (Pty) Ltd</b> 7 Ateljee Street, Randpark Ridge, Randburg		
<b>Manufacturer</b>	<b>BECKHOFF Automation GmbH &amp; Co. KG</b> Huelshorstweg 20, 33415 Verl, Germany		
<b>Description</b>	<p><i>Input:</i> AC 100-240 V(-15%/+10%)   1.6-0.7 A   50-60 Hz DC 110-150 V(+/- 20 %)   1.4 A</p> <p><i>Output:</i> DC 24-28 V   6.0-5.1 A (below +45 °C) DC 24-28 V   5.0-4.3 A (at +60 °C) DC 24-28 V   3.8-3.2 A (at +70 °C)</p> <p>Derate linearly between +45 °C and +70 °C Ambient temperature range: -25 °C to +70 °C</p>		
<b>Equipment</b>	Power supply (built-in)	<b>Type</b>	PS2001-2405-0000
<b>MARKING:</b> <b>Original marking as per certificate ** remains applicable.</b> <b>IA number must be added.</b>	<b>Type:</b> <b>Ex Marking:</b> <b>IA Number:</b> <b>Warnings:</b>	Power supply (built-in): PS2001-2405-0000 Ex ec nC IIC T4 Gc MASC S/26-8148X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
<b>Quality Assurance report (QAR) / Notification (QAN):</b>	"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."		
<b>Compliance:</b> 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"> <li>SANS (IEC) 60079-0: 2019 Equipment - General requirements</li> <li>SANS (IEC) 60079-7: 2019 Equipment protection by increased safety "e"</li> <li>SANS (IEC) 60079-15: 2022 Equipment protection by type of protection "n"</li> </ul> <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>			
<b>Specific conditions of use "X":</b> <ul style="list-style-type: none"> <li>Refer to Annex A below for more details.</li> </ul>			
<b>Conditions of manufacture:</b> <ul style="list-style-type: none"> <li>Refer to Annex A below for more details.</li> </ul>			
 <b>S. JORDAAN</b> <b>TECHNICAL SPECIALIST</b>		 <b>N. VILOJEN</b> <b>TECHNICAL OFFICER</b>	
<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 MS/23-90 MASC S/26-8148X

Equipment: Power supply (built-in): PS2001-2405-0000

(Expiry date: 02 April 2029)

Page 2 of 2

## ANNEX A

This document is based on and must be read in conjunction with certificate IECEx EPS 20.0045X.	
<b>Description (According to Base Certificate) **</b>	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
<b>Standard compliance</b>	See Base Certificate **
<b>Specific conditions of use ("X")</b>	<ul style="list-style-type: none"><li>• The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.</li><li>• The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.</li><li>• Ambient temperature range is <math>-25\text{ }^{\circ}\text{C} &lt; T_{amb} &lt; +70\text{ }^{\circ}\text{C}</math>; de-rating conditions above <math>+45\text{ }^{\circ}\text{C}</math> must be considered.</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: 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).</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 0108:2018 / NCoP 2398: 2022 (as applicable), 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.

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](http://www.iecex.com)

Certificate No.: **IECEX EPS 20.0045X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2020-06-15)

Status: **Current** Issue No: 1

Date of Issue: 2025-12-11

Applicant: **BECKHOFF Automation GmbH & Co. KG**  
Huelshorstweg 20  
33415 Verl  
Germany

Equipment: **Power supply (built-in): PS2001-2405-0000**

Optional accessory: N/A

Type of Protection: **ec nC**

Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEx  
Certification Body:

**Ulrich Feike**

Position:

**Head of Certification**

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 20.0045X**

Page 2 of 4

Date of issue: 2025-12-11

Issue No: 1

Manufacturer: **BECKHOFF Automation GmbH & Co. KG**  
Huelshorstweg 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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/EPS/ExTR20.0045/01](#)

Quality Assessment Report:

[DE/BVS/QAR16.0010/10](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 20.0045X**

Page 3 of 4

Date of issue: 2025-12-11

Issue No: 1

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **PS2001-2405-0000**

#### **Input:**

AC 100-240 V<sup>(-15%/+10%)</sup> | 1.6-0.7 A | 50-60 Hz

DC 110-150 V<sup>(+/- 20 %)</sup> | 1.4 A

#### **Output:**

DC 24-28 V | 6.0-5.1 A (below +45 °C)

DC 24-28 V | 5.0-4.3 A (at +60 °C)

DC 24-28 V | 3.8-3.2 A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -25 °C to +70 °C

#### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.
- Ambient temperature range is  $-25\text{ °C} < T_{\text{amb}} < +70\text{ °C}$ ; de-rating conditions above +45 °C must be considered.



# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 20.0045X**

Page 4 of 4

Date of issue: 2025-12-11

Issue No: 1

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

The equipment was tested for operation in non-standard mounting orientations and therefore the specific condition of use was removed ("Use only in standard vertical mounting orientation with the input terminals on bottom of the unit."); the conditions for non-standard mounting orientations are described in the instructions.