

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx TUN 11.0027X		Issue No: 1	Certificate history:
				Issue No. 1 (2016-03-09)
Status:	Current		Page 1 of 4	Issue No. 0 (2011-09-30)
Date of Issue:	2016-03-09			
Applicant:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany			
Electrical Apparatus:	Isolating Switch Amplifier type 17-5	521-4***/****		
Optional accessory:				
Type of Protection:	Intrinsic Safety			
Marking:	[Ex ia Ga] IIC/IIB [Ex ia Da] IIIC/IIIB			
Approved for issue on behalf of the IECEx Certification Body:		Andreas Meyer		
Position:		Head of the IECEx Cer	tification Body	
Signature: (for printed version)				
Date:	-			
	-			
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. 				
Certificate issued by:				
TÜV NORD CERT GmbH Hanover Office Am TÜV 1			$\overline{}$	

TUV NORD

30519 Hannover

Germany



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Certificate No:	IECEx TUN 11.0027X
Date of Issue:	2016-03-09
Manufacturer:	BARTEC GmbH Max-Eyth-Str. 16 97980 Bad Mergentheim Germany

Additional Manufacturing location(s):

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 electrical apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate does not indicate compliance with electrical 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/TUN/ExTR11.0027/00

DE/TUN/ExTR11.0027/01

Quality Assessment Report:

DE/TUN/QAR06.0017/07



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The device is an associated apparatus which provides a safe galvanically separation of intrinsically safe and non-intrinsically safe circuits.

For technical data see attachment.

CONDITIONS OF CERTIFICATION: YES as shown below:

The device has to be erected in such a way, that a degree of protection of at least IP20 according to IEC 60529 is reached.



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

Proof of conformity of the Isolating Switch Amplifier type 17-5521-4***/**** to the current versions of the IECEX standards IEC 60079-0:2011 and IEC 60079-11:2011.

Annex:

Attachment to IECEx TUN 11.0027 Issue 1.pdf

TÜV NORD CERT GmbH Hanover Office Am TÜV 1 30519 Hannover Germany



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I ≤ 100 mA

Technical data

The permissible temperature range is -40 °C to + 75 °C.

(connections Z12, Z13, Z14, Z15, Z16 and Z3)

Supply circuit U = 20 ... 30 V d.c. (connections Z1, Z2/Z3) P = 2.5 WUm = 253 V Signal circuits In type of protection [Ex ia Ga] IIC / IIB (connections Z5, Z7, Z9, Z11 and Z4, Z6, Z8, Z10) resp. [Ex ia Da] IIIC / IIIB Uo = 11.55 V Io = 30 mAPo = 86.4 mW Characteristic line: linear Maximum permissible external inductance Lo = 34 mHfor IIC resp. IIIC Maximum permissible external inductance Lo = 130 mH for IIB resp. IIIB Maximum permissible external capacitance Co = 1.59 µF for IIC resp. IIIC Maximum permissible external capacitance Co = 10.8 µF for IIB resp. IIIB Output circuits $U \leq 29 V d.c.$