

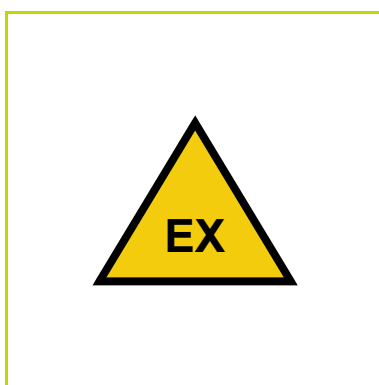
EX CERTIFICATE – IECEx

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vibro-meter®

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**IECEx IBE 20.0045**  
**for**  
**SpeedSys300 ODS301**  
**overspeed detection system**



Note: Although the Ex certificate may be included in more than one language, the liability of the notified body applies only on the text of the original copy of the certificate that it published.

Document reference IECEx IBE 20.0045  
Edition 2 – December 2021

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## IECEX Certificate of Conformity

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Issue No: 1

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**Certificate No.:** IECEx IBE 20.0045

**Date of issue:** 2021-11-08

**Manufacturer:** IsteC International B.V.  
Meer en Duin 8  
2163 HA Lisse  
Netherlands

**Additional 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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"  
Edition:6.0

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 Reports:** DE/IBEX/EXTR20.0050/01

**Quality Assessment Report:** NL/KIWA/QAR20.0002/00



## IECEX Certificate of Conformity

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Issue No: 1

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**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 IBE 20.0045

**Status:** Current

**Date of Issue:** 2021-11-08

**Applicant:** IsteC International B.V.  
Meer en Duin 8  
2163 HA Lisse  
Netherlands

**Equipment:** Overspeed Protection System SpeedSys 200 and SpeedSys300

**Optional accessory:**

**Type of Protection:** intrinsic safety

**Marking:** [Ex ia Gaj IIC  
[Ex ia Daj IIIC

**Certificate history:**  
Issue 0 (2021-02-23)

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**Approved for issue on behalf of the IECEx Certification Body:**

**Position:** Kai Willamowski

**Signature:**   
(for printed version)

**Date:** 08.11.2021

**Head of department Certification Body**

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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.



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**Certificate issued by:**  
IBEXU Institut für Sicherheitstechnik GmbH  
Fuchsmühlweg 7  
09599 Freiberg  
Germany






**IECEX Certificate  
of Conformity**

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Issue No: 1

Certificate No.: **IECEX IBE 20.0045**

Date of issue: 2021-11-08

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
The assembly of the primary circuit was modified.



**IECEX Certificate  
of Conformity**

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Issue No: 1

Certificate No.: **IECEX IBE 20.0045**

Date of issue: 2021-11-08

**EQUIPMENT:**  
Equipment and systems covered by this Certificate are as follows:  
The Overspeed Protection System type SpeedSys 200 and SpeedSys300 serves as associated equipment for the galvanically isolated supply of a speed sensor and for recording its pulses. The device also features a variety of digital and analog in- and outputs, to connect to further equipment. With regard to the intrinsically safe circuit section, both types are of identical design. The interface unit is installed in the safe area. Electrical data see Annex

**SPECIFIC CONDITIONS OF USE: NO**

## IECEx Certificate of Conformity - Annex



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<u>Power supply circuit 1 and 2</u> (terminals A17-A18, A21-A22)	U <sub>N</sub>	18...36 V DC
Rated voltage	I <sub>N</sub>	<315 mA
Current consumption	U <sub>m</sub>	250 V
Max. voltage		
<u>Non-intrinsically safe current output circuit</u> (terminals A13-A14)	U <sub>N</sub>	20 V DC
Rated voltage	I <sub>N</sub>	<63 mA
Rated current	U <sub>m</sub>	125 V
Max. voltage		
<u>Non-intrinsically safe relay circuits</u> (terminals B13-B14, B15-B16, B17-B18, B19-B20, B21-B22, B23-B24)	U <sub>N</sub>	30 V DC
Switching voltage	I <sub>N</sub>	2 A
Switching current	P	60 W
Switching power	U <sub>m</sub>	220 V
Max. voltage		
<u>Non-intrinsically safe USB circuit</u>	U <sub>N</sub>	5 V DC
Rated voltage	I <sub>N</sub>	<63 mA
Rated current	U <sub>m</sub>	125 V
Max. voltage		
<u>Non-intrinsically safe RS-485 circuit</u> (terminals C17-C18-C19)	U <sub>N</sub>	6 V DC
Rated voltage	I <sub>N</sub>	<63 mA
Rated current	U <sub>m</sub>	125 V
Max. voltage		
<u>Non-intrinsically safe digital outputs</u> (terminals A15-A16, C13-C14, C15-C16)	U <sub>N</sub>	24 V DC
Rated voltage	I <sub>N</sub>	<100 mA
Rated current	U <sub>m</sub>	125 V
Max. voltage		
<u>2-wire voltage sensor circuit</u> (terminals B01-B02)	U <sub>0</sub>	22.69 V
	I <sub>0</sub>	0.7 mA
	P <sub>0</sub>	3 mW
	L <sub>0</sub>	100 mH
	C <sub>0</sub>	110 nF
	in ignition protection type intrinsic safety Ex ia IIC	
<u>3-wire voltage sensor circuit</u> (terminals B05-B06-B07)	U <sub>0</sub>	22.69 V
	I <sub>0</sub>	66 mA
	P <sub>0</sub>	374 mW
	L <sub>0</sub>	0.5 mH
	C <sub>0</sub>	110 nF
	in ignition protection type intrinsic safety Ex ia IIC	
<u>Current-loop sensor circuit</u> (terminals B09-B10)	U <sub>0</sub>	22.69 V
	I <sub>0</sub>	57.9 mA
	P <sub>0</sub>	689 mW
	L <sub>0</sub>	0.23 mH
	C <sub>0</sub>	47 nF
	R <sub>i</sub>	832 Ω
Characteristic trapezoidal		

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