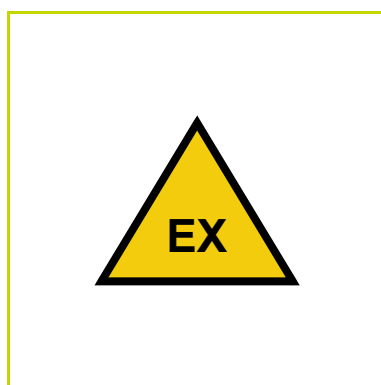


EX CERTIFICATE – IECEx

vibro-meter®

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 1 – April 2021

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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

Page 1 of 3
Issue No: 0
Certificate history: [Certificate history](#)

Certificate No.:	IECEX IBE 20.0045		
Status:	Current		
Date of Issue:	2021-02-23		
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 Ga] IIC [Ex ia Da] IIC		

Approved for issue on behalf of the IECEx Certification Body:

Position: Kai Wiliamowski
Head of department Certification Body

Signature: 
(or printed version)



Date: 23.01.2021



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:
IBEXU Institut für Sicherheitstechnik GmbH
Fuchsmühlweg 7
09599 Freiberg
Germany



IECEX Certificate of Conformity

Page 2 of 3
Issue No: 0

Certificate No.:	IECEX IBE 20.0045		
Date of issue:	2021-02-23		
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		
IEC 60079-11:2011	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"		

Edition:7.0
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 Report:
DE/IBEXE/TR20.0050/00

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

IECEX Certificate of Conformity

Certificate No.: **IECEX IBE 20.0045** Page 3 of 3

Date of issue: **2021-02-23** Issue No.: 0

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

Annex:
[ExTR20.0050-AnnexCoC-IB2030191_ah.pdf](#)

IECEX Certificate of Conformity - Annex

Certificate No.: **IECEX IBE 20.0045** Issue No.: 0

Date of issue: **2021-02-23** Page 1 of 1

Power supply circuit 1 and 2 (terminals A17-A18, A21-A22)

Rated voltage	U_N	18...36 V DC
Current consumption	I_N	<315 mA
Max. voltage	U_m	250 V

Non-intrinsically safe current output circuit (terminals A13-A14)

Rated voltage	U_N	20 V DC
Rated current	I_N	<63 mA
Max. voltage	U_m	125 V

Non-intrinsically safe relay circuits (terminals B13-B14, B15-B16, B17-B18, B19-B20, B21-B22, B23-B24)

Switching voltage	U_N	30 V DC
Switching current	I_N	2 A
Switching power	P	60 W
Max. voltage	U_m	220 V

Non-intrinsically safe USB circuit

Rated voltage	U_N	5 V DC
Rated current	I_N	<63 mA
Max. voltage	U_m	125 V

Non-intrinsically safe RS-485 circuit (terminals C17-C18-C19)

Rated voltage	U_N	6 V DC
Rated current	I_N	<63 mA
Max. voltage	U_m	125 V

Non-intrinsically safe digital outputs (terminals A15-A16, C13-C14, C15-C16)

Rated voltage	U_N	24 V DC
Rated current	I_N	<100 mA
Max. voltage	U_m	125 V

2-wire voltage sensor circuit (terminals B01-B02)

Rated voltage	U_o	22.69 V
Rated current	I_o	0.7 mA
Max. voltage	P_o	3 mW
	L_o	100 mH
	C_o	110 nF

in ignition protection type intrinsic safety Ex ia IIC

3-wire voltage sensor circuit (terminals B05-B06-B07)

Rated voltage	U_o	22.69 V
Rated current	I_o	69.5 mA
Max. voltage	P_o	394 mW
	L_o	0.5 mH
	C_o	110 nF

in ignition protection type intrinsic safety Ex ia IIC

Current-loop sensor circuit (terminals B09-B10)

Rated voltage	U_o	22.69 V
Rated current	I_o	57.9 mA
Max. voltage	P_o	689 mW
	L_o	0.23 mH
	C_o	47 nF

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Characteristic trapezoidal R_c 832 Ω

F8107009_1_170526 | Voltage: 00V0002170_170117 | offentich

EX CERTIFICATE – IECEx

IECEX IBE 20.0045 for SpeedSys300 ODS301 overspeed detection system

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