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 IBE 20.0045**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
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] IIIC		

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

Position: **Head of department Certification Body**

Signature: (for printed version)

Date: 23.02.2021

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
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Certificate No.: **IECEx IBE 20.0045**

Date of issue: 2021-02-23

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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 Report:

DE/IBE/ExTR20.0050/00

Quality Assessment Report:

NL/KIWA/QAR20.0002/00

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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

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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	in ignition protection type intrinsic safety Ex ia IIC	
(terminals B01-B02)	U_o	22.69 V
	I_o	0.7 mA
	P_o	3 mW
	L_o	100 mH
	C_o	110 nF
3-wire voltage sensor circuit	in ignition protection type intrinsic safety Ex ia IIC	
(terminals B05-B06-B07)	U_o	22.69 V
	I_o	69.5 mA
	P_o	394 mW
	L_o	0.5 mH
	C_o	110 nF
Current-loop sensor circuit	in ignition protection type intrinsic safety Ex ia IIC	
(terminals B09-B10)	U_o	22.69 V
	I_o	57.9 mA
	P_o	689 mW
	L_o	0.23 mH
	C_o	47 nF
Characteristic trapezoidal	R_i	832 Ω