IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx PTB 14.0013X	Issue No: 0	Certificate history: Issue No. 0 (2014-03-14)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2014-03-14**		
Applicant:	**Balluff GmbH** Schurwaldstraße 99 73765 Neuhausen a.d.F. **Germany**		
Electrical Apparatus:	**Inductive position sensors BES 516-300-S266-S4 and BES 516-300-SXXX-S4-N**		
Optional accessory:			
Type of Protection:	**General Requirements, Intrinsic Safety**		
Marking:	Ex ia IIC T6/T4 Gb		

Approved for issue on behalf of the IECEx Certification Body: Dr.-Ing. Ulrich Johannsmeyer

Position: Department Head "Explosion Protection in Sensor Technology and Instrumentation"

Signature:
(for printed version)

Date:

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 the Official IECEx Website.

Certificate issued by:

IECEx Certificate of Conformity

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Manufacturer:	**Balluff GmbH** Schurwaldstraße 99 73765 Neuhausen a.d.F. **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/PTB/ExTR14.0014/00

Quality Assessment Report:

DE/PTB/QAR07.0009/03

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The inductive position sensors type series BES 516-300-S266-S4 and BES 516-300-SXXX-S4-N are used for the detection of influencing solids in the hazardous area. The assignment of the inductive position sensors to the temperature class and the permissible ambient temperature range is shown in the table below.

Sensor type	Temperature class	Ambient temperature range
BES 516-300-S315-S4-N	T6	-20°C to +70°C
BES 516-300-S318-S4-N	T6	-45°C to +70°C
BES 516-300-S332-S4-N	T6	-20°C to +70°C
BES 516-300-S342-S4-N	T6	-20°C to +70°C
BES 516-300-S266-S4	T6	-20°C to +70°C
BES 516-300-S345-S4-N	T4	-20°C to +70°C
BES 516-300-S346-S4-N	T4	-20°C to +70°C
BES 516-300-S347-S4-N	T4	-20°C to +70°C

Electrical data

Supply Type of protection Intrinsic Safety Ex ia IIC
Only for connection to a certified intrinsically safe circuit.
Maximum values: P_i = 120 mW
L_i = 0,5 mH
C_i = 30 nF

CONDITIONS OF CERTIFICATION: YES as shown below:

The electrical data are to be taken from the operating instructions.