



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 KIWA 15.0011X Issue No: 0 Certificate history:
Status: Current Page 1 of 3 Issue No. 0 (2015-08-25)
Date of Issue: 2015-08-25
Applicant: BETA B.V.
Verrijn Stuartlaan 22
2288 EL Rijswijk
The Netherlands
Electrical Apparatus: Pressure and temperature switches Series C-...-I-..
Optional accessory:
Type of Protection: Ex ia
Marking: Ex ia IIC T6 Ga
Ex ia IIIC T85 °C Da

Approved for issue on behalf of the IECEx
Certification Body:

Pieter van Breugel

Position:

Certification Officer

Signature:
(for printed version)

Date:

August 25th, 2015

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](http://www.iecex.com).

Certificate issued by:

Kiwa Nederland B.V. (Unit Kiwa ExVision)
Wilmersdorf 50
7327 AC Apeldoorn
P.O. Box 137
7300 AC Apeldoorn
The Netherlands

kiwa 
Partner for progress



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Certificate No: IECEX KIWA 15.0011X

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Date of Issue: 2015-08-25

Page 2 of 3

Manufacturer: **BETA B.V.**
Verrijn Stuartlaan 22
2288 EL Rijswijk
The Netherlands

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"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

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:

NL/KIWA/ExTR15.0010/00

Quality Assessment Report:

NL/DEK/QAR11.0032/03



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Certificate No: IECEX KIWA 15.0011X

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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

BETA Pressure and Temperature Switches Model series C-...-I-... are devices that include one or two pressure level respectively temperature level activated switch contacts.
Pushbuttons for manual reset of the switches can optionally be fitted.

Ambient temperature range -60 °C to +80 °C.

The maximum surface temperature at the enclosure T85 °C is determined at an ambient temperature of 80 °C for a dust layer with a thickness of maximum 5 mm.

Electrical data

Contact inputs (terminals NO, NC and C):

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, depending on the type of protection and the electrical parameters of the connected certified associated intrinsically safe circuits. The maximum values of voltage and current (per contact) are:
 $U_i = 90 \text{ V}$, $I_i = 3.3 \text{ A}$. The effective internal capacitance C_i and the internal inductance L_i are negligibly small.

CONDITIONS OF CERTIFICATION: YES as shown below:

In an explosive atmosphere requiring the use of equipment of Equipment Protection Level Da, the BETA Temperature and Pressure Switches series C shall be installed such that a dust layer with a thickness of more than 50 mm on any surface is prevented.

If the enclosure of the BETA Temperature and Pressure switches series C is made of aluminium, even in the event of rare incidents, ignition sources due to impact and friction sparks shall be prevented if the devices are installed in an explosive gas atmosphere requiring the use of equipment of Equipment Protection Level Ga.

Electrostatic discharge of the pushbuttons of versions provided with manual reset shall be prevented during operation, maintenance and cleaning.