



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 BVS 07.0030X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2021-09-27)
Date of Issue:	2022-03-03		Issue 3 (2020-05-04)
Applicant:	ABB AG (Division Measurement and Analytics) Schillerstraße 72 Minden 32425 Germany		Issue 2 (2016-03-18)
Equipment:	Positioner type TZIDC-2**		Issue 1 (2013-04-15)
Optional accessory:			Issue 0 (2007-12-11)
Type of Protection:	Flameproof Enclosures "d"		
Marking:	Ex db IIC T6/T5/T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

Lead Auditor and officially recognised expert

Signature:
(for printed version)


2022-03-03

Date:
(for printed version)

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:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0030X**

Page 2 of 4

Date of issue: 2022-03-03

Issue No: 5

Manufacturer: **ABB AG (Division Measurement and Analytics)**
Schillerstraße 72
Minden 32425
Germany

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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/BVS/ExTR07.0036/05](#)

Quality Assessment Report:

[DE/TUN/QAR06.0012/07](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0030X**

Page 3 of 4

Date of issue: 2022-03-03

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

TZIDC-200/210/220

Description

The positioner is designed in type of protection Flameproof Enclosure. The enclosure can be made of aluminium or stainless steel.

The positioner is designed for the transmission of an electrical signal into a pneumatic signal.

The differences between these three types of positioner are the used bus system for communication.

Neither flammable gases nor oxygen or oxygen enriched gases shall be used as pressure media.

Parameters

Electrical data

Voltage	AC/DC	≤	30	V
Current		≤	20	mA

Pneumatic data

Supply pressure		≤	6	bar
-----------------	--	---	---	-----

Thermal data

Temperature class	Ambient temperature range
T4	$-40\text{ °C} \leq T_a \leq 85\text{ °C}$
T5	$-40\text{ °C} \leq T_a \leq 80\text{ °C}$
T6	$-40\text{ °C} \leq T_a \leq 65\text{ °C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The positioner is designed for use at an ambient temperature range of -40 °C up to 85 °C at maximum.

If the positioner is used at an ambient temperature above 60 °C or below -20 °C , cable glands and cables approved for a service temperature corresponding to the maximum ambient temperature increased by 10 K or corresponding to the minimum ambient temperature shall be used.

The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of IEC 60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.

Fasteners with a minimum property class of 10.12, A2-70 or A2-80 must be used for the closing of the flameproof enclosure.



IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0030X**

Page 4 of 4

Date of issue: 2022-03-03

Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change of the applicant name from ABB Automation Products GmbH to ABB AG