

Translation

EU-Type Examination Certificate

**Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU**

EU-Type Examination Certificate Number: **DMT 02 ATEX E 029 X** Issue: **05**

Product: **Positioner type TZIDC-2****

Manufacturer: **ABB AG (formerly: ABB Automation Products GmbH)**

Address: **Schillerstraße 72, 32425 Minden, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 02.2009 EU.

The Essential Health and Safety Requirements are assured in consideration of:

**EN IEC 60079-0:2018
EN 60079-1:2014**

**General requirements
Flameproof enclosure "d"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex db IIC T6/T5/T4 Gb**

DEKRA Testing and Certification GmbH
Bochum, 2022-02-24

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**
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15 **Product description**

15.1 **Subject and type**

Positioner type TZIDC-2**

15.2 **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.

Reason for this supplement:

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

15.3 **Parameters**

15.3.1 Electrical data

Voltage	AC / DC	≤ 30	V
Current		≤ 20	mA

15.3.2 Pneumatic data

Supply pressure	≤ 6	bar
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15.3.3 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	$-40\text{ °C} \leq T_a \leq 65\text{ °C}$

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17 Specific Conditions of Use

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 EN 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.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2022-02-24
BVS-Kir/Mu A 20220040 / 342609100



Managing Director