1 UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE.

2 **Product or Protective System Intended for use in Potentially Explosive Atmospheres SI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 Type Examination Certificate No.: **EMA22UKEX0063X**

4 Product: **Positioner type TZIDC-200, TZIDC-210 and TZIDC-220**

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

6 Address: **Schillerstraße 72, 32425 MINDEN, Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Approved Body number 0891, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, SI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report **BVS PP 02.2009 EU**.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

Except in respect of those requirements listed at section 18 of the schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:

Ex II 2G Ex db IIC T6 / T5 / T4 Gb -40 °C ≤ T_a ≤ +65 °C/+80 °C/+85 °C see section 15

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.

S P Winsor, Certification Manager

Issue date: 2023-05-26

Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom
Element Materials Technology Warwick Ltd
Company Reg No. 02536659

UKAS PRODUCT CERTIFICATION 0178

13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER EMA22UKEX0063X

15 Description of Product

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

The differences between the 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 medium.

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

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		$-40°C \leq T_a \leq +85°C$	
T5		$-40°C \leq T_a \leq +80°C$	
T6		$-40°C \leq T_a \leq +65°C$	

16 Test report No. (associated with this certificate issue): None.

17 Specific Conditions of Use

1. The positioner is designed for use at an ambient temperature range of -40°C up to +85°C.
2. 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 shall be used.
3. The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of EN60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.
4. Fasteners with a minimum property class of 10.12, A2-70 or A2.80 must be used for the closing of the flameproof enclosure.

Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

The test reports were considered to satisfy the requirements of Schedule 1 with the exception of Essential Health and Safety Requirements 5 and 6, which were separately satisfied by the content of the label drawings and the instructions.

19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

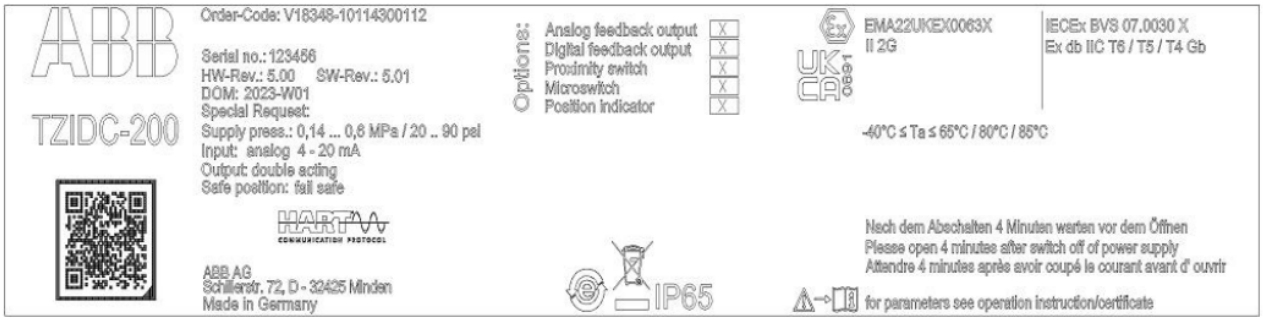
21 Specific Conditions for Manufacture

None.

22 Photographs

23 Details of Markings

Example for the TZIDC-200-Nameplate Certification UK CA



24 Certificate History

Original certificate 2023-05-26 First issue.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

25 Notes to UKCA marking

In respect of UKCA Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Regulations in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: TRA-057418-01 i2 (GU-ABBQ-0007).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Approved Body 0891 is the designation for Element Materials Technology Warwick Ltd.

27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

(i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.

(ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Schedule 1 of the Regulations SI 2016:1107 (as amended by SI 2019:696) and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER EMA22UKEX0063X

APPENDIX A - TECHNICAL DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Scheduled drawings list for EMA22UKEX0063X	-	-	2023-05-22