



1 **TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 23ATEX1099U** Issue: **0**

4 Component: **Miniature Bearing Temperature Sensors (MBS) Models:
Thermocouples P/N 10-4025 thru 10-4029
Resistance Temperature Device (RTD) P/N 10-4030 thru 10-4034**

5 Applicant: **Conax Technologies LLC**

6 Address: 2300 Walden Ave.
Buffalo, New York 14225
United States

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

8 CSA Group Netherlands B.V., certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified component, and not to specific components subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

II 3G Ex ic IIC Gc



Signed: M Halliwell

Title: Director of Operations

Project Number 80129813

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1099U
Issue 0

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	17 October 2023	R80129812A	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

15.1 Service Temperature: -40°C to 230°C.

15.2 For device assemblies designated Levels of protection "Ex ic", the measurement heads shall be installed in a sealed bearing per manufacturer instructions. The assembly extension wires shall be installed in an enclosure with a minimum ingress protection of IP54. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

15.3 End-user shall ensure proper earthing of the device upon installation in accordance with EN 60079-14. The mounting of the device for installation must ensure that the metallic body is reliably connected to system earth, continuity to be checked and confirmed.

15.4 The device assemblies designated for Level of protection "Ex ic" installation are declared prior to installation on the Manufacturer's Ex Marking label using a permanent marking method. These assemblies shall only be powered by an "[Ex ic]" associated apparatus (barrier device).

15.5 The nonmetallic markings label (tag) shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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