



Intertek



1. **TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**

3. Type Examination Certificate Number: ITS08ATEX42972

4. Equipment or Protective System: Incremental Encoder type 2QEX

5. Manufacturer: **Scancon A/S**

6. Address: Tranevang 1, 3450 Allerød, Denmark

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 94/9/EC of 23 March 1994


The examination and test results are recorded in confidential Reports: ETS2965, dated 23-09-2008 and ETS2965/A/V1 dated 22-01-2009.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with applicable parts of: EN 60079-0: 2006, EN 60079-15: 2005, EN 61241-0: 2006 and EN 61241-1: 2006 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-

 II 3 G Ex nA IIC T5 T_{amb} -40°C to +85°C
II 3 D Ex tD A22 IP64 T95°C

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Klaus M. Hansen
Deputy Certification Officer
12 February 2009

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and is subject to Intertek Testing and Certification Conditions for Granting Certification .

13. SCHEDULE

14. TYPE EXAMINATION CERTIFICATE NUMBER ITS08ATEX42972

15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM

The Incremental Encoder type 2QEX is a small construction in an aluminium enclosure containing the electronics. Based on the very low current consumption the temperature class will not be affected by the electronics. The shaft is designed with 2 precision ball bearings and all external connections are provided through a MIL-connector.

Routine tests required at 500 V r.m.s for 60 seconds between enclosure and Pins A, B, C, D, E and F.

16. REPORT NUMBER

Intertek Report Ref ETS2965/A/1, dated 23-09-2008.

17. SPECIAL CONDITIONS FOR SAFE USE

There are no special conditions for safe use.

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSR'S)

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in Intertek Reports ETS2965/A/1, dated 23-09-2008 and ETS2965/A/1, dated 22-01-2009.

19. DRAWINGS

Number	Issue	Date	Description
00141375	3	09.01.13	2QEX ATEX marking Label
00141376	4	09.01.15	2QEX ordering code
00131477C	1	15-01-2009	Certification drawing – shaft
00131478C	1	16-01-2009	Certification drawing – housing 2Q Ex dwg
00141190	5	27-03-2008	Encoder Cap for Mil Shell Size 16
789801	3	27-03-2008	Encoder 2Q special Anodized
MS3102E-16S-1P Assy.iam	1	08/04-2008	MS3102E-16S-1P w O-Ring

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