



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS09ATEX16847X**

4. Equipment or Protective System: **Incremental Encoder type 2REX**

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

6. Address: **Tranevang 1, DK-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, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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.

The examination and test results are recorded in confidential Intertek Report INT-CH3588/1/2/3 -09 042179 dated 13 April 2010.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2009, EN 60079-1:2007 and EN 61241-1:2004 except in respect of those requirements referred to at item 18 of the Schedule.

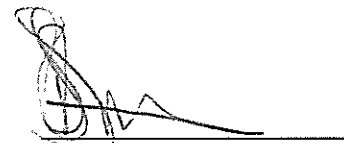
10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC-Type examination certificate relates only to the design and construction 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 2 G Ex d IIC T4 Gb
II 2 D Ex tb IIIB T135°C Db IP6* (*see schedule)
Tamb: -40°C to +54°C



R Smith
Certification Officer
13th April 2010

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX16847X

15. Description of Equipment or Protective System

The Incremental 2REX Encoder is a small cylindrical unit (68 mm in diameter, length changes with lid) containing low voltage electronic components. The two piece construction is manufactured from either aluminium, stainless steel or acid-proof stainless steel. The unit comprises three flame-paths a flanged joint between the lid and body, a threaded cable entry and one cylindrical rotating shaft controlled by k & m factors the shaft is held in place with 2 precision roller bearings. The Encoder can be marked IP65, IP66 or IP67 depending on actual configuration. Internal and External earthing is provided.

Nomenclature for type: 2REX is described in drawing 00141621

16. Report Number:

Intertek Report INT-CH3588 – 09 042179/1/2/3 dated 13 April 2010

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

No modifications must be made to the flamepaths of the unit without consultation of the drawings listed in 19 below.

Safety fasteners shall provide a yield strength of at least 250 Mpa.

Internal free volume is less than 100cc.

Warning: Do not open when an explosive atmosphere may be present.

The cable gland utilized is covered by component certificate ITS08ATEX15913U.

(b). Conditions For Use (Routine Tests)

None

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report INT-CH3588/4 -09 042179 dated 13 April 2010.

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- 13. SCHEDULE
- 14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX16847X
- 19. Drawings and Documents

Number	Title	Issue	Date
00130986	Encoder 2REX + REXM for M20x1,5 Ex-cable Gland Spaltetegning IIC	2	08.02.05
00131258	2REX-REXM Cover Tube SR	5	25-05-2009
00131259	Encoder End Cap 2REX-REXM SR	8	15-05-2009
00131282	2REX Cover Tube AI	6	26-03-2010
00131283	Encoder End Cap 2REX AI	8	26-03-2010
00131615C	Certification drawing – Housing for 2REX-REXM	1	25-05-2009
00131616	Encoder Cap for 2REX SA-back	2	30-09-2009
00131738C	Certification dwg – Hollow Shaft/shaft for 2REX	1	28-09-2009
00137410	2REX + REXM med Scancon Ex-forskruning Spaltetegning IIC	5	08.02.05
00137442	Encoder type 2REX med NPT Ex-forskruning Spaltetegning IIC	2	02.10.01
00140476	Cable gland 2D M15x1 Ø7,5	2	16-02-2010
00140985	Encoder Cap for 2REX M20x1,5 SR	6	30-09-2009
00140996	Encoder Cap for 2REX M20x1,5 AI	5	30-09-2009
00141224	Seal for cable ø4 to ø5	2	28-09-2009
00141620	2REX label	8	10.04.09
00141621	2REX numbering code	7	10.04.09
00143107	Cable gland M15x1 Ø7	6	30-09-2009
00143108	Seal for cable ø6 to ø7	5	15-12-2008
00147391	Encoder Cap for 2REX AI	12	12-02-2010
00147405	Encoder Cap for 2REX AI- back	7	30-09-2009
00147440	Encoder Cap for 2REX AI ½" NPT	1	10-03-2010
00148146	Cable Gland M15x1- ½"NPT ISSEP	2	30-09-2009
00148173	Encoder Cap for 2REX SR	12	29-06-2009
00148177	Cable Gland M15x1 Ø7	5	30-09-2009
00148283	Cable Gland M20x1,5 for 2REX	7	10-12-2008
00148284	Encoder Cap for 2REX SA	3	30-09-2009
00148452	Encoder Cap for 2REX SR- back	8	30-09-2009

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13. SCHEDULE

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90131184	2REX-A-SR face mount U SS	6	26-03-2010
90131284	2REX-A-AL with End Cap	8	26-03-2010
90131285	2REX-H-AL with End Cap	7	26-03-2010
90131286	2REX-A-SR with End Cap	7	26-03-2010
90131287	2REX-H-SR with End Cap	7	26-03-2010
90131451	2REX-A-SR face mount B SH	8	26-03-2010
90131532	2REX-H-SR Face Mount A SS	7	26-03-2010
90131613	2REX-H-AI Face Mount A SS	7	26-03-2010
90131618	2REX-A-AI face mount K SS	6	26-03-2010
90131734	2REX-H-AI Face mount A SH	7	26-03-2010
00140386	Warning Label	1	19-09-2007

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