Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**

(3)	**Certificate Number**	**TÜV 10 ATEX 556306 X**
(4)	for the equipment:	Incremental Encoder type: 2REXI-A and 2REXI-H
(5)	of the manufacturer:	Scancon A/S
(6)	Address:	Tranevang 1 3450 Allerød Denmark
	Order number:	8000556306
	Date of issue:	2011-09-20

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

(8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), 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 the confidential report No. 10 203 556306.

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

EN 60079-0:2009 **EN 60079-1:2007** **EN 60079-31:2009**

(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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

II 2 GD Ex db IIB T5 Gb and Ex tb IIIB T100 °C Db IP 6x

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

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(13) **S C H E D U L E**

(14) **EC-Type Examination Certificate No. TÜV 10 ATEX 556306 X**

(15) Description of equipment

The Incremental Encoder type 2REXI is a small cylindrical unit (68 mm in diameter, length about 85 mm depending on middle section), containing low voltage electronic components. The four piece construction is manufactured from aluminium, stainless steel or acid-proof stainless steel. The unit comprises five flame-paths: a plane joint between the lid and body, a cylindrical joint between cable entry housing and electronics compartment, 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 IP 64, IP65, IP66 or IP67 depending on actual configuration (IP X7 for max. 1 meter submersion).
The middle section is designed for 1/2 " NPT or M20 thread for the cable entry device.

Type Key

2REXI-A….. and 2REXI-H……
The type key refers to Scancon´s ordering code system covering max pulse/rev, different kind of material for housing and body, output signals, length of shaft and so on. This code system is specified by drawing 00141837 rev. 3 of 11.08.18. The Ex "d" flameproof properties are fixed by the approved drawings.

Technical data

Supply voltage: 4.5 to 30 VDC / max 100 mA

Permitted range of the ambient temperature	-40 °C to +70 °C

The reference pressure has been measured to 5.0 bar. The encoder has been type tested with a static pressure of 4 times the measured reference pressure – i.e. 4 x 5 bar = 20 bar. In accordance with EN 60079-1 clause 16.2, routine testing in the production to can be omitted.

(16) Test documents are listed in the test report No. 10 203 556306.

(17) Special conditions for safe use

The encoder is delivered without cable entry device. The user must fix a suitable Ex certified cable entry device to fulfilling EN/IEC 60079-1 (Ex d) requirements.

(18) Essential Health and Safety Requirements

no additional ones