



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx ITS 24.0001X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-02-05

Applicant: **Scancon Encoders A/S**  
Huginsvej 8  
3400 Hilleroed  
Denmark

Equipment: **Optic and Magnetic Encoder - Type SCH68BEX, SCH68FEX and SCA68EX**

Optional accessory:

Type of Protection: **Increased Safety (Ex ec)**

Marking: **Ex ec IIC T4 Gc**  
**-40°C ≤ Tamb ≤ +65°C\***  
\* Upper ambient can be any value between +20°C and +65°C to meet customer requirements  
**IECEx ITS 24.0001X**

Approved for issue on behalf of the IECEx  
Certification Body:

**R J Tunncliffe**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road  
Leatherhead  
Surrey, KT22 7SA  
United Kingdom

**intertek**



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Manufacturer: **Scancon Encoders A/S**  
Huginsvej 8  
3400 Hilleroed  
**Denmark**

Manufacturing locations: **Scancon Encoders A/S**  
Huginsvej 8  
3400 Hilleroed  
**Denmark**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/ITS/ExTR24.0001/00](#)

Quality Assessment Report:

[GB/EXV/QAR17.0015/05](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Type SCH68BEX, SCH68FEX and SCA68EX are Optic or Magnetic Encoders housed in either an aluminium or stainless steel enclosure. It has either a solid or hollow shaft and the external shape of the enclosure can vary depending on application. The cap of the enclosure forms an interference fit with the housing and is secured via Qty 3 M2.5 fasteners. The encoder is supplied pre-wired with either certified cable gland, certified Ex e or Ex d connector or MIL connector. External earth connection point is provided.

The encoder meets the minimum requirement of IP64 in accordance with IEC 60079-0 and additionally can be marked IP65, IP66 and IP67 in accordance with IEC 60529 (depending on cable gland/connector that is fitted).

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- Potential electrostatic charging hazard – see instructions.
- The equipment shall only be used in areas of at least pollution degree 2, as defined in IEC 60664-1.

## Annex:

[IECEx ITS 24.0001X - Annex for IECEx Certificate of Conformity.pdf](#)



## Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ITS 24.0001X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Certification drawing – Housing for SC68EX – Ex dwg	00232201C	1	04-12-2023
Certification Shaft/Hollow Shaft SC68EX – Ex dwg	00232215C	1	04-12-2023
Certification drawing – Internal & External earthing SC68EX Ex dwg	00232247C	1	04-12-2023
Certification drawing – O-ring Ex dwg	00232257C	1	04-12-2023
Certification drawing – Rotary Shaft Seal Ex dwg	00232258C	1	04-12-2023
Certification drawing – internal connections Ex dwg	00242274C	1	04-12-2023
Certification drawing – Cap SC68Ex with MIL connector Ex dwg	80232200C	1	04-12-2023
Certification drawing – Cap with cable gland Ex dwg	80232217C	1	04-12-2023
Certification drawing – Cap with Ex e/Ex d approved Conn. Ex dwg	80232243C	1	04-12-2023
Certification drawing – General information Ex dwg	90232200C	1	04-12-2023
PCB – SC68EX Optic	00232259	1	04-12-2023
PCB – SC86EX Magnetic	00232260	1	04-12-2023
SC68EX marking label Ex-dwg.	00242216	1	04.12.2023
SC68EX ordering code Ex-dwg.	00242248	1	04.12.2023
Warning Label for encoder with connector Ex dwg	00242249	1	04-12-2023
Type SC68EX Installation Guide	00232244	1	04 Dec. 2023

Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	<p>A dielectric strength test shall be carried out in accordance with Clause 6.1 of IEC 60079-7:2015 Ed 5.1 between the conductors and earth.</p> <p>Test voltage 500V r.m.s. (+5%,-0%).</p> <p>Test duration minimum of 60 seconds.</p> <p>Alternatively, the test shall be carried out at 1.2 times the above test voltage but shall be maintained for at least 100ms.</p> <p>The use of a d.c. test voltage is allowed as an alternative to the specified a.c. test voltage and shall be at 140% of the specified a.c. r.m.s test.</p> <p>Details of test must be recorded and records maintained.</p>	IEC 60079-7:2015 Ed 5.1, Clause 6.1

Certificate issued by:

**intertek**  
Total Quality. Assured.

**Intertek Testing & Certification Ltd**  
Intertek, Cleeve Road,  
Leatherhead, Surrey, KT22 7SA,  
UK

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