



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx QPS 19.0021X

Issue No: 0

Certificate history:

Issue No. 0 (2019-07-03)

Status: **Current**

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Date of Issue: **2019-07-03**

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

Equipment: **Incremental Encoder**

*Optional accessory:*

Type of Protection: **"d" "t"**

Marking:  
IECEX QPS 19.0021X  
Ex db IIC T5 Gb  
Ex tb IIIC T100°C Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dave Adams, P.Eng.

*Position:*

Manager, Hazardous Locations (Ex Equipment) Department

*Signature:  
(for printed version)*

*Date:*

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**QPS**  
**Evaluation Services Inc.**  
81 Kelfield St  
Unit 8  
Toronto, Ontario M9W 5A3  
Canada





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

Additional Manufacturing location(s):

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 apparatus 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 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

*This Certificate **does not** indicate compliance with electrical 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:

[CA/QPS/ExTR19.0021/00](#)

Quality Assessment Report:

[GB/EXV/QAR17.0015/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Incremental Encoder

SCx24Ex

Model Code:

SCA24EX-xxxxx-xx-x-xx-xx-xx-x-x-x (solid shaft) and

SCH24EX-xxxxx-xx-x-xx-xx-xx-x-x-x (hollow shaft)

Ex db IIC T5 Gb

Ex tb IIIC T100°C Db

5 to 24 Vdc, 100mA

IP64/65/66/67/68 (1 hour / 1 meter)

Ta=-40°C to +70°C

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

- No modifications to flamepaths are permitted by the end user
- It is a condition of certification that the precautions must be taken to avoid dust from forming layers on the encoder.
- The encoder is delivered with a factory mounted cable and cable gland. This cable can only be replaced by the manufacturer.
- The Encoder has passed the clamping test of the cable with reduced force – due to this, the user must establish an external clamping of the cable or alternatively the encoder may be mounted in a cabinet/terminal box or other means.