



# 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 DEK 13.0005X

Issue No: 2

Certificate history:

Status: **Current**

[Issue No. 2 \(2019-02-12\)](#)

[Issue No. 1 \(2017-08-18\)](#)

[Issue No. 0 \(2014-07-07\)](#)

Date of Issue: **2019-02-12**

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Applicant: **Aanderaa Data Instruments AS**  
Sanddalsringen 5b  
N-5225 Nesttun  
**Norway**

Equipment: **Luminaire, Type ILED...**

*Optional accessory:*

Type of Protection: **Ex e mb and Ex tb**

Marking:

Ex e mb IIC T4 Gb  
Ex tb IIIC T100 °C Db

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

L.G. van Schie

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2019-02-12

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](#).

Certificate issued by:

**DEKRA Certification B.V.**  
Meander 1051,  
6825 MJ Arnhem  
The Netherlands





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Manufacturer: **Aanderaa Data Instruments AS**  
Sanddalsringen 5b  
N-5225 Nesttun  
**Norway**

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[NL/DEK/ExTR13.0006/02](#)

Quality Assessment Report:

[NO/NEM/QAR14.0006/04](#)



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## Schedule

### EQUIPMENT:

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

Luminaire type ILED... is provided with 8 LEDs for continuous or flashing use. The terminal box and the LED compartment are in type of protection increased safety "e", the electronics is in type of protection encapsulation "mb".

Ambient temperature range -40 °C to 55 °C.

The enclosure provides a degree of protection IP66 in accordance with IEC 60529.

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

The luminaire must be protected by an external fuse or a circuit breaker. The breaking capacity must be in accordance with the prospective short circuit current of the supply.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Applicant/manufacture name change, QAR change, minor constructional change



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## Additional information:

### Electrical data

Type ILED Aquarius Perimeter, Type ILED Taurus Obstruction and Type ILED Aquarius Signal

Supply: 24 Vdc  $\pm$  10%, max. 390 mA, max. 10 W or  
95 to 255 Vac, 50/60 Hz, max. 230 to 80 mA, max. 20 W or  
130 to 370 Vdc, max. 130 to 50 mA max. 20 W

Type ILED Aquarius Repeater and Type ILED Aquarius Signal Flash

Supply: 24 Vdc  $\pm$  10%, max. 390 mA, max 10 W  
Control input: to be connected to IMT Control Unit type IM-RO-SYNC  
Duty cycle: max. 50 %, min frequency 0.2 Hz

Type ILED Aquarius Repeater SA

Supply: 24 Vdc  $\pm$  10%, max. 390 mA, max 10 W