



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 11ATEX3101X** Issue: **6**

4 Equipment: **ILED Aquarius Windsock/Obstruction, ILED Lyra U-code 3nm/U-code 5nm and Power Supply ULD35W**

5 Applicant: **Aanderaa Data Instruments AS**

6 Address: Sanddalsringen 5b  
N-5225 Nesttun  
Norway

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009

EN 60079-7:2007

EN 60079-18:2009

EN 60079-31:2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

Luminaires



II 2GD  
Ex e IIC T4 Gb  
Ex tb IIIC T135°C IP66 Db  
Ta = -40°C to +55°C

Power Supply



II 2GD  
Ex e mb IIC T4 Gb  
Ex tb IIIC T135°C Db IP66  
Ta = -40°C to +55°C

Project Number 0959

Signed: 

Title: Director of Operations

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## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF EQUIPMENT

The equipment comprises luminaire/light fittings connected to a dedicated power supply using a length of permanently connected cable terminated with glands that are suitable for the application and have been certified by a notified body. It is supplied as a complete unit and the luminaires and the dedicated power supply are not intended to be used separately. In addition, the electrical ratings of the outputs of the power supply are set by the manufacturer and are limited to the defined maximum supply ratings of the particular luminaire used.

#### Luminaire

There are two Types of luminaire fittings, ILED AQUARIUS and ILED LYRA, the difference being the ratings; each Type is available as the following Versions:

- Windsock
- Obstruction
- U-code 5NM (this is a flashing version of identical construction to the other models)
- U-code 3NM (this is a flashing version of identical construction to the other models)
- The manufacturer also uses the term 'Type X' to refer to any of these above models as an alternative name, such as "beacon" etc.

The luminaires consist of a cylindrical glass/polycarbonate lens with an aluminium endplate, sealed with a silicone ring, at either end. The endplates are secured to a central, aluminium section using eight, counter-sunk, hexagon socket screws, four on each side, with o-rings used as seals. There are 'flats' around the outside of the central, aluminium section to accommodate 12 LEDs mounted on PCBs. The LEDs are connected in series and a potting material covering the wire links between each PCB is used as a method of strain relief. The external earth is provided adjacent to a hole down the centre of the unit which is used for mounting purposes. The fitting has an M12 x 1.5 entry for a suitably certified cable gland that supports the permanently connected cable.

#### Power Supply

The power supply uses a component approved, increased safety enclosure, this enclosure can be made from plastic (dimensions 260 x 160 x 93 mm) or stainless steel (dimensions 200 x 200 x 81 mm). The following items are fitted onto an aluminium plate inside the enclosure:

- a 15 mm mounting rail to EN 60715:2001 for mounting 12 component approved terminals.
- a component approved, encapsulated driver circuit, this device is contained in its own aluminium enclosure.

There are up to three entries for supply and output connections and there is the option for the power supply entry to be provided with or without a component approved cable gland. The available Types and supply ratings are as follows:

Version	Voltage range
ILED ULD35W AC in plastic enclosure	90 Vac to 250 Vac
ILED ULD35W DC in plastic enclosure	24 Vdc ± 10%
ILED ULD35W AC in stainless steel enclosure	90 Vac to 250 Vac
ILED ULD35W DC in stainless steel enclosure	24 Vdc ± 10%

**Variation 1** - This variation introduced the following changes:

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- i. The luminaires, which were previously certified in their own right, are now always provided with a dedicated power supply. The Description of Equipment was therefore modified to introduce the power supply and remove the ratings applicable to the luminaires. The introduction of the power supply also necessitated the application of two, new Conditions of Certification/Special Conditions for Safe Use.
- ii. A new Type of luminaire was recognised, this is identical to an existing model, but has a de-rated power, the available Types and Versions were therefore clarified in the Description of Equipment.
- iii. The Conditions of Certification/Special Conditions for Safe Use that were previously applied are considered to be covered by Codes of Practice and were therefore removed.
- iv. The certificate product name was change from Windsock and Obstruction Luminaires to that shown at section 4.
- v. Correction of the year of issue of ATEX standard EN 60079-31, from EN 60079-31:2008 to EN 60079-31:2009.

**Variation 2** - This variation introduced the following change:

- i. The recognition of an additional manufacturing location: Aanderaa Data Instruments AS, Sanddalsringen 5b, N-5225 Nesttun, Norway.

**Variation 3** - This variation introduced the following change:

- i. Change of applicant and manufacturer's name and address from IMT B.V., Pascalweg 10A, 4104 BG Culemborg, The Netherlands to Aanderaa Data Instruments AS, Sanddalsringen 5b, N-5225 Nesttun, Norway.
- ii. Updated Delo material type.
- iii. Include modifications to glass tube.
- iv. Minor administrative drawing changes.
- v. The certification coding has been updated.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	10 June 2011	R22360A/00	The release of the prime certificate.
1	30 June 2011	R22360A/01	Report no. R22360A/00 was replaced by R22360A/01.
2	7 July 2011	N.A.	The comment against Issue 1 was clarified
3	19 November 2012	R22360C/00	The introduction of Variation 1.
4	05 April 2017	R70115133A	This Issue covers the following changes: <ul style="list-style-type: none"> <li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior</i></li> </ul>

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			<i>to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i> <ul style="list-style-type: none"><li>• The introduction of Variation 2.</li></ul>
5	07 June 2019	R70208290A	The introduction of Variation 3.
6	31st October 2019	0959	<ul style="list-style-type: none"><li>• Transfer of certificate Sira 11ATEX3101X from Sira Certification Service to CSA Group Netherlands B.V.</li></ul>

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 The power supply and luminaires listed on this certificate shall only be used in conjunction with each other and are not approved for use as individual items.
- 15.2. The factory settings of the outputs of the encapsulated circuit within the power supply shall not be adjusted by the end user.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

# Certificate Annexe



**Certificate Number:** Sira 11ATEX3101X

**Equipment:** ILED Aquarius Windsock/Obstruction, ILED Lyra U-code 3nm/U-code 5nm and Power Supply ULD35W

**Applicant:** Aanderaa Data Instruments AS

**Issue 0** (The drawings listed with these Issues were rationalised and have been superseded by those detailed in Issue 1.)

## Issue 1

### Lenses:

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
Glass Tube	1 of 1	A	30 Jun 11	Glass Tube
Glass Tube Obstruction	1 of 1	A	30 Jun 11	Glass Tube Obstruction
Tube PC obstruction	1 of 1	A	30 Jun 11	Tube PC obstruction

### Obstruction Luminaire (red LEDs):

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
Obstruction Luminaire Assem	1 of 4	A	30 Jun 11	Obstruction luminaire general dimensions
Obstruction Luminaire Assem	2 of 4	D	30 Jun 11	Obstruction luminaire section view
Obstruction Luminaire Assem	3 of 4	D	30 Jun 11	Obstruction luminaire wiring
Obstruction Luminaire Assem	4 of 4	B	30 Jun 11	Obstruction luminaire sealing

### Windsock Luminaire (white LEDs):

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
Windsock Luminaire Assem	1 of 4	A	30 Jun 11	Windsock luminaire general dimensions
Windsock Luminaire Assem	2 of 4	D	30 Jun 11	Windsock luminaire section view
Windsock Luminaire Assem	3 of 4	D	30 Jun 11	Windsock luminaire wiring
Windsock Luminaire Assem	4 of 4	B	30 Jun 11	Windsock luminaire sealing

### Label drawing:

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
ILED Aquarius	1 of 1	D	30 Jun 11	ILED Aquarius Label Marking

**Issue 2** (No new drawings were introduced)

## Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
Junction box 160x260x91 Assem	1 of 2	B	08 Nov 12	ILED ULD35W in JB General Dimensions
Junction box 160x260x91 Assem	2 of 2	E	08 Nov 12	ILED ULD35W in JB Section View
Rose 352020081	1 of 2	B	08 Nov 12	ILED ULD35W in SS JB General Dimensions
Rose 352020081	2 of 2	F	08 Nov 12	ILED ULD35W in SS JB Section View
ILED ULD35W in JB	1 of 1	B	08 Nov 12	ILED ULD35W in JB Label Marking
ILED AQUARIUS	1 of 1	E	12 Nov 12	ILED Aquarius Label Marking

**Issue 4** (No new drawings were introduced)

## Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
2400050	1 of 1	B	19 Mar 19	Obstruction Luminaire General Dimensions
2400051	1 of 1	E	19 Mar 19	Obstruction Luminaire Section View

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**Equipment:** ILED Aquarius Windsock/Obstruction, ILED Lyra U-code 3nm/U-code 5nm and Power Supply ULD35W

**Applicant:** Aanderaa Data Instruments AS

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
2400052	1 of 1	E	19 Mar 19	Obstruction Luminaire Wiring
2400053	1 of 1	C	19 Mar 19	Obstruction Luminaire Sealing
2400054	1 of 1	B	19 Mar 19	Obstruction Luminaire General Dimensions
2400055	1 of 1	E	19 Mar 19	Windsock Luminaire Section View
2400056	1 of 1	E	19 Mar 19	Windsock Luminaire Wiring
2400057	1 of 1	C	19 Mar 19	Windsock Luminaire Sealing
2400601	1 of 1	H	19 Mar 19	ILED Aquarius Marking Label Ex Certification
2400603	1 of 1	E	19 Mar 19	ILED Aquarius Marking Label JB Ex Certification
2402050	1 of 1	C	19 Mar 19	ULD35W General Dimensions JB
2402051	1 of 1	H	19 Mar 19	ULD35W Section View JB
2402052	1 of 1	C	19 Mar 19	ULD35W General Dimensions SS JB
2402053	1 of 1	H	04 Jun 19	ULD35W Section View SS JB
2400226	1 of 1	C	19 Mar 19	Glass Tube Obstruction

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