



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 11ATEX1093X** Issue: **2**

4 Equipment: **EVFR Range of Fluorescent Luminaires**

5 Applicant: **Protaş A.Ş.**

6 Address: **Örnek Mah
Fehmi Tokay Cad.
Göztepe Plaza No. 12
Kat 3 Ataşehir
Istanbul
Turkey**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-1:2007

EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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 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:

EVFR118 & EVFR118-E



**II 2 GD
Ex d IIA T6 Gb or
Ex d IIB T6 Gb or
Ex d IIC T6 Gb
Ex tb IIIC T85°C Db IP6X**

EVFR136, EVFR136-E, EVFR136-LED-S & EVFR-LED-T



**II 2 GD
Ex d IIA T6 Gb or
Ex d IIB T6 Gb
Ex tb IIIC T85°C Db IP6X**

Project Number 70008476

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 11ATEX1093X
Issue 2

13 DESCRIPTION OF EQUIPMENT

The EVFR Series Fluorescent Luminaires, as detailed in Figure 1, each comprise a cylindrical borosilicate lampglass tube with an aluminium end-cap at one end and control gear enclosure at the other. The lampglass is cemented in place and has a metal reflector plate fitted to its top and a steel wire guard to its bottom. The end-cap contains a bi-pin lampholder socket and has a mounting bracket fixed to its top. The control gear enclosure comprises a main body and a cover that is secured by two M8 x 20 Grade 8.8 socket-head cap screws and contains a bi-pin lampholder socket, a starter, ballast and terminals for the connection of field wiring and has a mounting bracket fixed to its top. The control gear enclosure also contains two 3/4" NPT threaded holes for the fitting of suitable cable entry devices.

Design options

Model no.	No. of tubes	Wattage	Ballast type
EVFR118	1	18	Magnetic
EVFR118-E	1	18	Electronic
EVFR136	1	36	Magnetic
EVFR136-E	1	36	Electronic

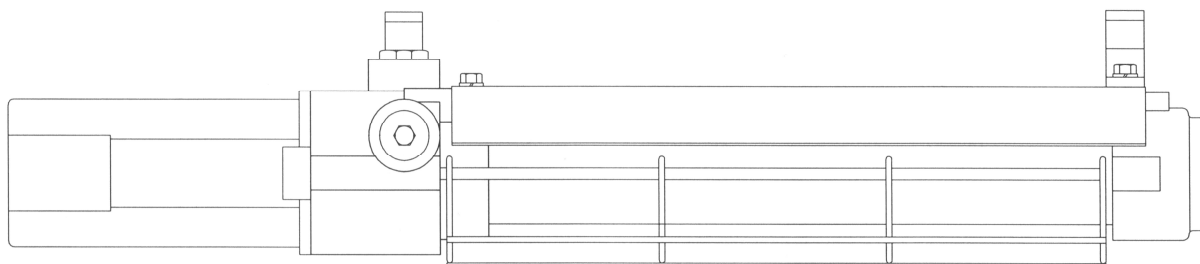


Figure 1 - Drawing of an EVFR Series Luminaire

Variation 1 - This variation introduced the following changes:

- Retrospective assessment of manufacturer's drawings to add clarifications to the original assessment. This includes the removal of drawings of the 'twin' luminaire models which are not approved under this certificate.
- Addition of a further Special Condition for Safe Use and Conditions of Manufacture as a result of the retrospective assessment.
- Change of Applicant/Manufacturer address from:
From
Ornek Mah
Akmese Sok No. 11
Atasehir
Istanbul
Turkey
To
Ornek Mah
Fehmi Tokay Cad.
Göztepe Plaza No. 12
Kat 3 Atasehir
Istanbul
Turkey

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 11ATEX1093X
Issue 2

Variation 2 - This variation introduced the following changes:

i. The introduction of the following new models to the range of the EVFR136 luminaires:

- EVFR.136-LED-S – Luminaire with LED strips.
- EVFR.136-LED-T – Luminaire with LED tubes.

These two new models are identical in construction to the existing EVFR.136 luminaires with the exception that LED strips and LED tubes are respectively used in place of florescent tubes. The design options are as follows:

Model no.	No. of tubes	Wattage	Ballast type
EVFR136-LED-S	1	36	Electronic
EVFR136-LED-T	1	36	Electronic

The Special Conditions for Safe Use and Conditions of Certification have been modified accordingly to include these two new models.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	20 April 2011	R22957A/00	The release of the prime certificate.
1	10 March 2014	R32828A/00	The introduction of Variation 1.
2	28 October 2014	R70008476A	This Issue covers the following changes: <ul style="list-style-type: none"> • A typographical error associated with the changes assessed in Issue 1 was corrected. • The introduction of Variation 2.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 The EVFR136, EVFR136-E, EVFR136-LED-S and EVFR136-LED-T Fluorescent Luminaires shall only be mounted where there is a low risk of impact.

15.2 The dimensions of the flameproof joint formed by the ballast cover are other than the relevant minimum or maximum values required by Table 2 of EN 60079-1:2007 for IIC, as detailed below:

Flamepath Description	Type of Joint	Minimum Width 'L' (mm)	Maximum Gap i _c (mm)
Ballast enclosure cover	Cylindrical	27	0.09

Gaps shall not be machined to be any larger than the values of 'i_c', and widths shall not be modified to be any smaller than the values of 'L', shown in the table above.

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.

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 11ATEX1093X
Issue 2

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 Each EVFR118 & EVFR118-E Fluorescent Luminaire enclosure when marked for use with IIC gases shall be subjected to a routine overpressure test of 29.0 bar for at least 10 s as required by clause 16.1 of EN 60079-1:2007. There shall be no permanent deformation of the joints or damage to the enclosure.
- 17.4 Each EVFR136, EVFR136-E, EVFR136-LED-S and EVFR136-LED-T Fluorescent Luminaire enclosure when marked for use with IIB gases shall be subjected to a routine overpressure test of 18.3 bar for at least 10 s as required by clause 16.1 of EN 60079-1:2007. There shall be no permanent deformation of the joints or damage to the enclosure.
- 17.5 At the rated voltage of 240 V, the circuits used in the ballast of the equipment shall be capable of a current draw and power dissipation of no more than the following:

Lamp Type	Power	Current
EVFR 118/ EVFR 118-E	33.5 W	418 mA
EVFR 136/ EVFR 136-E	49.9 W	468 mA
EVFR136-LED-S	66.6 W	984 mA
EVFR136-LED-T	40.7 W	454 mA

- 17.6 The threaded joint and threaded entries shall have a medium or fine tolerance quality in accordance with ISO 965-1 and ISO 965-3, or imperial equivalent.

Certificate Annexe

Certificate Number: Sira 11ATEX1093X
Equipment: EVFR Range of Fluorescent Luminaires
Applicant: Protaş A.Ş.



Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Description
EI.A4.00401	1 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00401	2 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00401	3 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00402*	1 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00402*	2 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00402*	3 of 3	2	04 Apr 11	Fluoresan Lighting Fixture
EI.A4.00403	1 of 4	-	04 Apr 11	Body
EI.A4.00403	2 of 4	-	04 Apr 11	Body
EI.A4.00403	3 of 4	-	04 Apr 11	Body
EI.A4.00403	4 of 4	-	04 Apr 11	Body
EI.A4.00404*	1 of 4	1	04 Apr 11	Body
EI.A4.00404*	2 of 4	1	04 Apr 11	Body
EI.A4.00404*	3 of 4	1	04 Apr 11	Body
EI.A4.00404*	4 of 4	1	04 Apr 11	Body
EI.A4.00405	1 of 2	1	04 Apr 11	Ballast Cover
EI.A4.00405	2 of 2	1	04 Apr 11	Ballast Cover
EI.A4.00406	1 of 3	1	04 Apr 11	Tube Tap
EI.A4.00406	2 of 3	1	04 Apr 11	Tube Tap
EI.A4.00406	3 of 3	1	04 Apr 11	Tube Tap
EI.A4.00407	1 of 1	-	04 Apr 11	Reflector
EI.A4.00408	1 of 1	-	04 Apr 11	Glass Tube
EI.A4.00409	1 of 1	-	04 Apr 11	Under Tube Seal
EI.A4.00410	1 of 1	1	04 Apr 11	Wired Guard
EI.A4.00411	1 of 1	1	04 Apr 11	Wired Guard
EI.A4.00412	1 of 1	1	04 Apr 11	Montage Profile
EI.A4.00413	1 of 1	-	04 Apr 11	Square Nut
EI.A4.00414	1 of 1	-	04 Apr 11	Montage Foot Tap
EI.A4.00415	1 of 1	-	04 Apr 11	M6 Screw
EI.A4.00416	1 of 2	-	04 Apr 11	Socket Montage Part - 1
EI.A4.00416	2 of 2	-	04 Apr 11	Socket Montage Part - 2
EI.A4.00417	1 of 1	-	04 Apr 11	Montage Part
EI.A4.00418*	1 of 1	-	04 Apr 11	Pass Tap
EI.A4.00419	1 of 2	-	04 Apr 11	Ballast Cover
EI.A4.00419	2 of 2	-	04 Apr 11	Ballast Cover
EI.A4.00420	1 of 1	-	04 Apr 11	Montage Profile
ET.A4.00302	1 of 1	1	04 Apr 11	Ex Material Label

* These drawings were removed at issue 1.

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EI.A4.00401	1 of 3	3	17 Feb 14	Fluorescen lighting fixture
EI.A4.00405	1 of 2	2	17 Feb 14	Ballast cover
EI.A4.00405	2 of 2	2	17 Feb 14	Ballast cover
EI.A4.00419	1 of 2	1	17 Feb 14	Ballast cover
EI.A4.00419	2 of 2	1	17 Feb 14	Ballast cover
EI.A4.00302	1 of 1	3	17 Feb 14	Ex material label

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com

Certificate Annexe

Certificate Number: Sira 11ATEX1093X
Equipment: EVFR Range of Fluorescent Luminaires
Applicant: Protaş A.Ş.



Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EI.002.032	1 of 1	-	17 Feb 14	O ring
EI.002.025	1 of 1	-	17 Feb 14	Preparation and application of the sealing compound
EI.003.066	1 of 1	2	17 Feb 14	Compound Sealing
EVF Technical Spec (Page no. 1/10)	1 of 1	2	17 Feb 14	EVF Series Fluorescent Lighting Fixtures

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EI.002.041	1 of 3	1	08 Oct 14	GII.EVFR.136-LED-T Fluoresan Lighting Fixture
EI.002.041	2 of 3	2	08 Oct 14	GII.EVFR.136-LED-T Fluoresan Lighting Fixture
EI.002.041	3 of 3	2	08 Oct 14	GII.EVFR.136-LED-T Fluoresan Lighting Fixture
EI.002.042	1 of 3	1	08 Oct 14	GII.EVFR.136-LED-S Fluoresan Lighting Fixture
EI.002.042	2 of 3	2	08 Oct 14	GII.EVFR.136-LED-S Fluoresan Lighting Fixture
EI.002.042	3 of 3	2	08 Oct 14	GII.EVFR.136-LED-S Fluoresan Lighting Fixture
EI.002.040	1 to 1	1	08 Oct 14	EVFR Montage Profile
EI.002.043	1 to 1	-	08 Oct 14	Strip Montage Part 1
EI.002.044	1 to 1	-	08 Oct 14	Strip Montage Part 2

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com