

Certificato di esame UE del tipo

EU-type examination certificate

ECM 17 ATEX 240 X

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B

Issued according to 2014/34/EU Directive – Annex III - Module B



Richiedente

Applicant

Ragione Sociale
Company Name

ShomaL Engineering & Manufacturing Company (Pirooz) (SEMC) Co.

Indirizzo
Address

No. 5, 2nd Baharestan St., Pasdaran Ave., Tehran, Iran

Luogo di produzione
Place of production

C2 Ave., Salmanshahr Industrial Park Salmanshahr, Mazandaran, Iran

Apparecchiatura
Equipment

Equipment Name: Aircraft Warning Light
Type: LJB-LIOL/32cd, LJB-LV-LIOL/32cd, LJB-2XLIOL/32cd, LJB-2XMIOL/300cd,
Photocell-AIRCRAFT WARNING LIGHT/32cd

Modo di protezione
Type of protection

Flameproof Enclosure "Ex d"
II 2 GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db
IP 66, IP67

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso.

This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva.

ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n° EPIL EXTR 03001-1

The examination and test results are recorded in confidential report no. EPIL EXTR 03001-1

I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle **Norme applicate:** EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014, EN 60529:1992+A2:2013

The essential health and safety requirements are assured by compliance with applied **Standard:** EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014, EN 60529:1992+A2:2013

Questo **Certificato di esame UE del tipo** è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato.

This **EU-type examination certificate** relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols:



Flameproof Enclosure "Ex d"
II 2 GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db
IP 66, IP67

Valsamoggia (BO)

Data - Date 18/07/2017

Timbro



Firma autorizzata

Authorized signature

Amanda Payne (Deputy Manager)

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.

This certificate, annex included, can only be reproduced in its entirety and without any change.

Allegato I

Annex I

ECM 17 ATEX 240 X



Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B
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1- Description of Equipment:

- The Aircraft warning light series are presented with these types: LJB-LIOL/32cd, LJB-LV-LIOL/32cd, LJB-2XLIOL/32cd, LJB-2XMIOL/300cd, PHOTOCCELL-AIRCRAFT WARNING LIGHT/32cd
- The LED enclosures are made by polycarbonate bubbles (M80x2) that enforced by ribs mounted on aluminium body.
- External electrical connections & accessories provided by flame proof junction box with "Ex db" type of protection certified by TUV Rheinland Industries service GmbH, Certificate No. "TUV 11 ATEX 7165X"
- Electrical connection between enclosures provided by a special resin sealed nipple.
- Assembled apparatus with "Ex db" type of protection is suitable for permanent installation.
- Suitable external connection for earth provided in each enclosure.
- The photocell base piece is sealed with HNBR sealing device and equipped with glass photocell lens and anti-rotation locking piece.
- Cable entries on EJB enclosure:
 - ¾" or M25
 - ½" or M20
- Degree of protection: IP66 & IP67
- The IP rating must be maintained using the correct selection & arrangement of cable glands.

Assembling process in related Technical File No.: **EP-S.E.M.C.-17-06**

2- Electrical Characteristics:

- Rated frequency: 50-60 Hz
- Types construction & electrical characteristics:

Types	LIB	LED enclosure	Nipple	Rated Voltage	Photocell	Application
LIB-LV-LIOL/23cd	1	1	1	12/24 Vac/dc	X	Low intensity & Low voltage
LIB-LIOL/32cd	1	1	1	180-260 Vac 12/24 Vac/dc	X	Low intensity & is present in state of backup
LIB-2xLIOL/32cd	1	2	2		X	Low intensity
LIB-2xMIOL/300cd	1	4	4		X	Medium intensity & is present in state of backup
PHOTOCCELL-Aircraft Warning Light/32cd	1	1	1	190-240 Vac	1	Equipped by photocell for turning on automatically at night

- LED form lights: Aircraft warning constantly or turn on & off a few seconds for appearing height of towers at night.
- Connection terminals:
 - Board KF-8500 2 poles for photocell
 - 3xRTP 2.5+1xRET 2.5 for other connections

3- Schedule of limitations (special condition for safe use):

- The Aircraft warning light series are designed for ambient temperature of -30°C to +55°C.
- The provided threaded cable entry holes shall be fitted with suitably certified “Ex d” cable glands or suitably certified “Ex d” stopping plugs.
- Warning label:
“ DO NOT OPEN WHEN ENERGIZED”

4- Routine Tests:

- Each LED enclosure shall be subjected to a routine over pressure test, according to EN-60079-1, clause 16 with 3.2 bar.
- Note: Indeed carrying out pressure test at normal ambient temp is sufficient.

5- Descriptive Documents:

Test Report No.: **EPIL EXTR 03001-1**

Schedule Drawing No.: **ACFW101 to ACFW107**

Technical File No.: **EP-S.E.M.C.-17-06**

