

CESI

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Capitale sociale 8 550 000 €
interamente versato
Codice fiscale e numero
iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

Schema di certificazione

CESI-ATEX

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998, D.M. 27/9/2000 e D.M. 02/02/2006

CERTIFICATE



TYPE EXAMINATION CERTIFICATE

- [1] **TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 94/9/EC**
- [3] Type Examination Certificate number:
CESI 09 ATEX 041X
- [4] Equipment: Handle lighting fixtures series FHL...
- [5] Manufacturer: **CORTEM S.p.A.**
- [6] Address: Via Aquileia 10, Villesse (Gorizia), Italy
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report n. EX-B1029429
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2009; EN 60079-1: 2007; EN 60079-31: 2009
- [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 TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- [12] The marking of the equipment shall include the following:



II 2GD Ex d IIC T6 Gb; Ex tb IIIC T 85 °C Db IP 66

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 16/09/2011 - Translation issued the 16/09/2011

Prepared

Sergio Mezzetti

Verified

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CESI S.p.A.
Testing & Certification Division

[13]

Schedule

[14] TYPE EXAMINATION CERTIFICATE n. CESI 09 ATEX 041X

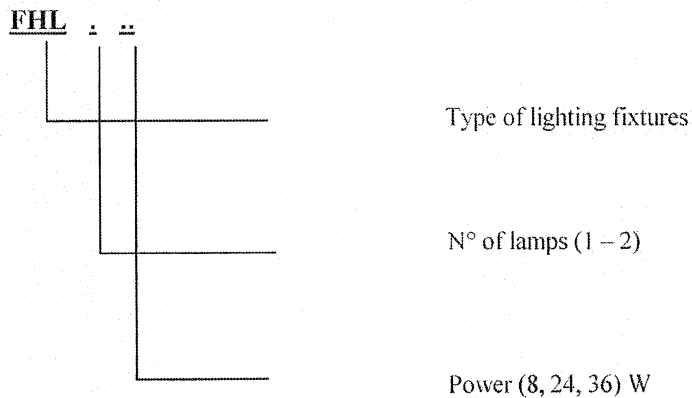
[15] **Description of equipment**

The handle lighting fixtures series FHL ... are realized by one explosion proof enclosure, realized by two volumes separated by an internal flange.

One volume, contains the fluorescent lamp/s; the other, hand held section, contains the electronic ballast.

The transparent part is realized in polycarbonate.

The handle lighting fixtures are identified by the following codes:



Electrical characteristics

Max. Rated voltage	24 Vcc
Max. Power	36 W
Ambient temperature	- 40 ÷ + 50 °C
Degree of protection	IP 66

Cable entries

The accessories used for cable entries shall be certified in compliance with the EN 60079-0, EN 60079-31, Standards and shall guarantee a minimum degree of protection IP 66 in compliance with the EN 60529 Standard

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

Schedule

[14] **TYPE EXAMINATION CERTIFICATE n. CESI 09 ATEX 041X**

[16] **Report n. ° EX- B1029429**

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 and at par.24 of the EN 61241-0 Standards.

The manufacturer shall carry out the overpressure routine tests, with the static method (par. 15.1.3.1 of EN 60079-1 Standard), at the following pressure values:

- lamp compartment 15,9 bar
- handle compartment 14 bar

Descriptive documents (prot. EX- B1029430)

- Technical Note n° A4-5287 (4 pg.)	Rev. 1	dated	23/11/2010
- Drawing n° A3-5256 (3 sheets)	Rev. 1	dated	23/11/2010
- CE Declaration of Conformity n° 0114		dated	23/11/2010
- Safety Instruction n. mod F-335 (5 pg.)	Rev. 1	dated	23/11/2010

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use (X)**

- Warning - do not open when atmosphere may be present ! Check instruction before use.
- Appropriate cable for hand lamp should be used in accordance with EN 60079-14

[18] **Essential Health and Safety Requirements**

The Health and Safety Requirements are assured by compliance with the following Standards:

- EN 60079-0 : 2009 Electrical apparatus for explosive gas atmospheres. General requirements
- EN 60079-1 : 2007 Type of protection "n"
- EN 60079-31: 2009 Equipment dust ignition protection by enclosure "t"