

# CESI

CESI  
Centro Elettrotecnico  
Sperimentale Italiano  
Giacinto Motta SpA

Via R. Rubattino 54  
20134 Milano - Italia  
Telefono +39 022125.1  
Fax +39 022125440  
www.cesi.it

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 e D.M. 27/9/2000

# CERTIFICATE



## [1] TYPE EXAMINATION CERTIFICATE

[2] **Category 3 Equipment intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**

[3] Type Examination Certificate number:

**CESI 03 ATEX 173**

[4] Equipment: Luminaries series LN-.. and LN-..V for tubular fluorescent lamps

[5] Manufacturer: **COR.TEM 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 certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential report n. EX- A3/023812.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50021: 1999 EN 50281-1-1:1998**

[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 3 G D EEx nA II T4 or T5 IP 65 T80°C or T65°C**



**II 3 D IP 65 T 80°C or T65°C**

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

Date July 2<sup>nd</sup>, 2003 translation issued on July 2<sup>nd</sup>, 2003

Prepared  
Mirko Balaz

Approved  
Ulisse Colombo

**CESI**

CENTRO ELETOTECNICO SPERIMENTALE ITALIANO  
Business Unit Certificazioni  
Al Responsabile

[13]

## Schedule

[14] TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 173

[15] **Description of equipment**

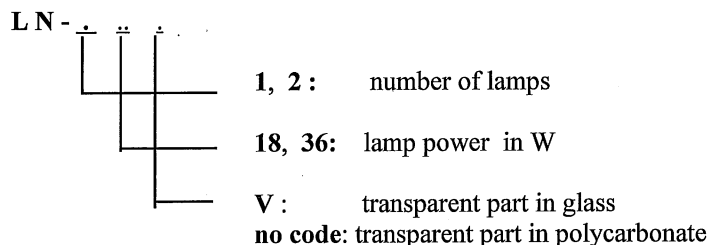
The luminaries are made by a body in aluminium alloy and a transparent part in glass (series LN-..V) or with protective transparent tube in polycarbonate (LN-..)

They are made in two versions:

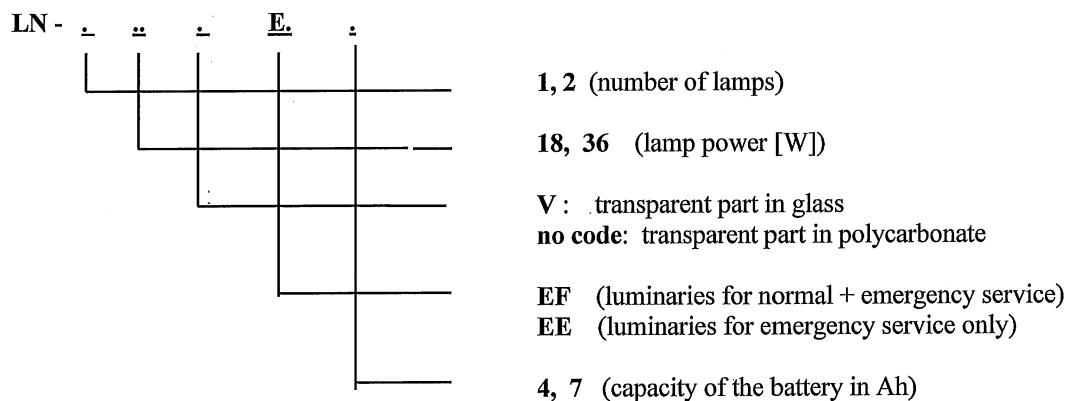
- for normal service
- for normal service and/or emergency service

The luminaries series LN are suitable for use of tubular fluorescent lamps with bi-pin cap G13.

The luminaries series LN-.. for normal service with electronic ballast are identified by a code as follows:



The luminaries series LXB with emergency operations are identified by a code as follows:



**Electrical characteristics**

|                      |                                  |
|----------------------|----------------------------------|
| Rated voltage        | 110 V / 230 V / 277 V            |
| Rated power          | 18 W; 36 W; 2x18 W; 2x36 W       |
| Rated frequency      | 50/60 Hz                         |
| Degree of protection | IP 65 (IEC 60529-2001)           |
| Ambient temperature  | - 25 ÷ + 40 °C<br>- 25 ÷ + 55 °C |
| NiCd battery:        |                                  |
| - rated voltage      | 6 V                              |
| - capacity           | 4 or 7 Ah                        |

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

[13]

## Schedule

[14] **TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 173**

[15] **Description of equipment (follows)**

Temperature class for category 3 GD luminaries:

T5 with ambient temperature - 25 ÷ + 40 °C

T4 with ambient temperature - 25 ÷ + 55 °C

Maximum surface temperature of the enclosure for category 3 GD and 3 D luminaries:

T65°C with ambient temperature - 25 ÷ + 40 °C

T80°C with ambient temperature - 25 ÷ + 55 °C

The accessories used for cable entry shall guarantee a degree of protection at least IP 65 and be certified according to the standards EN 50021 and EN 50281-1-1.

The mounting and/or substitution of tubular fluorescent lamps shall be made with de-energized circuits.

### Warning label

“ATTENTION TO ELECTROSTATIC CHARGES”

Clean only with wet cloth or antistatic product.

### Warning label – refer to emergency lighting

“DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT”

[16] **Report n. EX- A3/023812**

### Routine tests

The routine dielectric test with applied voltage shall be carried out at 1500 V.

### Descriptive documents (prot. EX-A3/023813)

|  |       |            |
|--|-------|------------|
| - Technical Note n° A4-4386 Rev. 0 (2 p.)      | dated | 07.02.2003 |
| - dwg. n° A1-4387 Rev. 0 (3 sheets)            | dated | 07.02.2003 |
| - dwg. n° A4-4129 Rev. 0                       | dated | 26.06.2000 |
| - Data sheets MAGNETEK (5 p.)                  | dated | 07.02.2003 |
| - Data sheets Peters (6 pag.)                  | dated | 07.02.2003 |
| - Data sheets TELELECTRONICS (8 p.)            | dated | 07.02.2003 |
| - Data sheets TELELECTRONICS SINTESI RS (2 p.) | dated | 07.02.2003 |
| - Data sheets VARTA (24 pg.)                   | dated | 07.02.2003 |
| - Safety instructions F-275 (7 p.)             | dated | 07.02.2003 |
| - EC DECLARATION OF CONFORMITY n° 0035         | dated | 07.02.2003 |

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

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

Covered by standards

## EXTENSION n. 01/08



to EC-Type Examination Certificate CESI 03 ATEX 173

Equipment: Luminaries series LN for tubular fluorescent lamps

Manufacturer: **COR.TEM S.p.A.**


Address: Via Aquileia 10, Villesse (GO)


### Admitted variation

- Updating to new standards EN 60079-0 (2006), EN 60079-15 (2005), EN 61241-0 (2006), EN 61241-1 (2004)
- Updating of nameplate

### Equipment identification

The luminaries series LN shall include the following markings.

 II 3GD Ex nA T4 or T5 Ex tD A22 IP65 T80°C or T65°C

 II 3D Ex tD A22 IP65 T80°C or T65°

The results of verifications and tests are reported in the confidential report n. EX- A8010548

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03 ATEX 173.

This document may only be reproduced in its entirety and without any change.

date Translation issued 09/04/2008

prepared Giorgio Chinnici

verified Mirko Balaz

approved Fiorenzo Bregani

**CESI** S.p.A.  
Divisione Energia  
"Area Tecnica Certificazione"  
Il Responsabile

page 1/2

## EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 03 ATEX 173

### 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.

### Descriptive documents (prot. EX- A8010544)

|  |         |       |            |
|--|---------|-------|------------|
| - Technical Note A4-4963 (2 pag.)        | Rev. 00 | dated | 09/10/2006 |
| - EC Declaration of Conformity (1 pag.)  |         | dated | 09/10/2006 |
| - Safety Instruction mod. F-275 (7 pag.) | Rev. 01 | dated | 09/10/2006 |

One copy of all documents is kept in CESI files.

### Essential Health and Safety Requirements

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

- EN 60079-0 : 2006      Electrical apparatus for explosive gas atmospheres.  
General requirements
- EN 60079-15 : 2005      Type of protection "n".
- EN 61241-0 : 2006      Electrical apparatus for use in the presence of combustible dust.  
General requirements
- EN 61241-1 : 2004      Protection by enclosures "tD"

This document may only be reproduced in its entirety and without any change.