

EC-TYPE EXAMINATION CERTIFICATE

- (1) **EC-TYPE EXAMINATION CERTIFICATE**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 01ATEX2250**
- (4) Equipment or protective system: **Lighting Fixture EVO**
- (5) Manufacturer: **CO.SIME. S.R.L**
- (6) Address: **Via Asiago 51, 20128 Milan, Italy**
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 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.
- (9) The examination and test results are recorded in confidential report no. 2016579.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 EN 50018 : 2000 EN 50281-1-1 : 1998
- (11) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (12) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (13) The marking of the equipment or protective system shall include the following:

II 2 G EEx d IIB T3/T4
 II 2 GD T 130 °C ... 180 °C

Arnhem, 17 April 2003
KEMA Quality B.V.

T. Pijpker
Certification Manager

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ACCREDITED BY THE
DUTCH COUNCIL FOR
ACCREDITATION

SCHEDULE

to EC-Type Examination Certificate KEMA 01ATEX2250

Description

Lighting fixture EVO consists of an aluminium body and cover with a glass window. The cover can be provided with gaskets to guarantee the degree of ingress protection of IP 66 to make it suitable for atmospheres endangered by the presence of combustible dust.

Lamp	Temperature class	Maximum surface temperature "T _m "
Incandescent max 100 W	T3	180 °C
Fluorescent max 23 W with electronic ballast	T4	130 °C
Halogen max 20 W with internal electronic transformer	T4	130 °C
Halogen max 50 W with internal electronic transformer	T3	180 °C

The standard ambient temperature range of the lighting fixture EVO is -20 °C to +40 °C. Optionally the lighting fixture EVO is available with an ambient temperature range of -50 °C to +40 °C.

Technical data

Rated voltage: 12 ... 240 Vac/dc ± 10%, 50 ... 60 Hz
 Rated power: max. 100 W
 Degree of ingress protection (enclosure with gaskets): IP 66 according to EN 60529

Installation instructions

The cable and conduit entry devices shall be of a certified flameproof type EEx d, suitable for the conditions of use and correctly installed. With the use of conduit entries a sealing device shall be provided either in the flameproof enclosure or immediately on the entrance thereto.

Routine tests

For each type with the standard ambient temperature range of -20 °C to +40 °C routine tests are not required.

Each type with the extended ambient temperature range of -50 °C to +40 °C shall be submitted to the routine overpressure test according to EN 50018, Clause 16, at a test pressure of 14,7 bar during one minute.

Report

KEMA No. 2016579.

Special conditions for safe use

None

Essential Health and Safety Requirements

Covered by the standards listed at (9).

SCHEDULE

to EC-Type Examination Certificate KEMA 01ATEX2250

- (13)
- (14)
- (19) **Test documentation**
 - 1. Technical Note AC10025TN (3 pages) dated
08.08.2001
 - 2. Installation and maintenance instructions IU-EVO 08.08.2001
 - 3. Drawing No. AC10025 31.05.2001

**Dichiarazione CE di conformità
EC Declaration of conformity**



CO.SI.ME. Srl
Via Asiago, 51
20128 Milan
ITALY

Noi
We

Dichiariamo sotto la nostra esclusiva responsabilità che i prodotti :
Declare under our sole responsibility that the products :

Apparecchi tipo EVO
Apparatuses type EVO

ai quali questo attestato si riferisce sono conformi alla Direttiva comunitaria: ATEX 94/9/CE
to which this attestaiton relates are in conformity with the community Directive ATEX 94/9/EC

e sono costruiti in accordo alle seguenti Norme :
and they are manufactured in conformity with the following Standards :

EN 50014 : 1997 + A1/A2 : 1999
EN 50018 : 2000
(EN 50281-1-1 : 1998)
EN 60529 : 1991

Certificato di esame del prodotto :
Examination certificate of the product :

KEMA 01 ATEX 2250

Nome dell' Organismo incaricato della sorveglianza ai fini della qualità : CESI
Name of Body involved in the production quality system surveillance :

N° dell' Organismo notificato
N° of the notified Body

0722



Milano, 17 April 2003
(luogo e data)
(place and date of issue)

Ing. Massimo Tonetti
(nome e firma o timbratura equivalente della persona autorizzata)
(name and signature or equivalent marking of authorised person)



Documento / Document			IU-EVO		
N° Pagine / Sheet N°			1	di / of	1
REV	0	1	2	3	4
DATA	08/08/01				
EXE by	M.T.				
CHK by	F.C.				
APP by	M.T.				

APPARECCHI DI ILLUMINAZIONE EVO
LIGHTING FIXTURES EVO

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Questo documento non può essere modificato senza l'approvazione dell' Organismo Notificato.
This document cannot be modified without approval of the Notified Body.



1 Istruzioni di sicurezza

Queste istruzioni devono essere conservate in luogo sicuro per future consultazioni. Per personale esperto e qualificato in accordo alle Leggi nazionali, in accordo alle relative Norme e, dove applicabile, in accordo alla IEC-79-17 per costruzioni elettriche per atmosfere potenzialmente esplosive. Questa costruzione elettrica deve essere installata solo per l'utilizzo per il quale è destinata. Non è ammessa alcuna modifica alla costruzione elettrica. Rispettare le caratteristiche elettriche indicate sulla costruzione. Questa costruzione elettrica non è adatta per l'utilizzo in zona 0 e zona 20

1 Safety instructions

These operating instructions must be kept in safe place for later consultations. For skilled and experienced personnel according with the national laws, the relevant standards and, where applicable, according with IEC-79-17 standards for electrical apparatus for potentially explosive atmospheres. This electrical apparatus must be used for its intended purpose. No modifications to the electrical apparatus shall be allowed. Observe the electrical features indicated on the apparatus. This electrical apparatus is not suitable to be installed in zone 0 and zone 20

2 Conformità alle Norme : La costruzione elettrica è conforme a : Norme EN 50014, EN 50018, EN 50281-1-1 ed alla Direttiva 94/9/EC. Costruzione per zona 1 e zona 2; con guarnizioni : zona 21, zona 22 (IEC 79-14 / CEI EN 60079-14).

2 Conformity with standards : The electrical apparatus meet the requirements of: EN 50014, EN 50018, EN 50281-1-1 and Directive 94/9/EC. Electrical apparatus for zone 1 and zone 2; with gaskets : zona 21 and zone 22 (IEC 79-14 / CEI EN 60079-14).

3 Dati Tecnici - Technical data

Modo di protezione : Protection mode :	EEx d IIB T4+T3 (EN 50014) T 130°C +T 180°C (EN 50281-1-1)	II 2 G (D) (Directive 94/9/EC)
Grado di protezione : Protection degree :	IP 66 (EN 60529) (con guarnizioni) IP 66 (EN 60529) (with gaskets)	<u>Utilizzare cavo con temperatura di esercizio >= 115°C</u>
Certificato di esame CE del tipo : EC-type examination certificate :	KEMA 01ATEX2250	<u>Use cable with service temperature >= 115°C</u>
Temperatura ambiente [°C] : -20 ÷ +40 Ambient temperature [°C] :	Temp. ambiente speciale [°C] : -50 ÷ +40 Special ambient temperature [°C] :	Temperatura immagazzinaggio [°C] : -20 ÷ +40 Storage temperature [°C] :
Tensione nominale [Vac/dc] : 12 ÷ 240 Rated voltage [Vac/dc] :	Frequenza [Hz] : 50 ÷ 60 Hz Frequency [Hz] :	Potenza max dissipabile [W] : 100 Max power dissipated [W]
Entrate di cavo : EEx d IIC (EN 50018) Cable entry :	Grado di protezione minimo IP 66 Minimum protection degree IP 66	Peso max [kg] : ~ 2 Max weight [kg] : ~ 2

4 Installazione

La costruzione elettrica può essere installata solo se esente da danni. Rispettare le Norme nazionali in materia di costruzioni elettriche per atmosfera potenzialmente esplosiva. Utilizzare solo accessori forniti da CO.SI.ME. per l'installazione della costruzione elettrica. Prima di chiudere la custodia verificare che il giunto filettato sia lubrificato ed esente corpi estranei e difetti. Sostituire la guarnizione, quando è prevista, durante la manutenzione periodica dell'apparecchio. Bloccare il coperchio mediante la vite con esagono incassato. Le entrate di cavo con grado di protezione inferiore a IP 66 riducono il grado di protezione dell'intero apparecchio quando è provvisto di guarnizioni.

Dopo aver tolto tensione attendere 5 minuti prima di aprire la custodia

4 Installation

The electrical apparatus shall be installed in absence of damages. Observe the national standards concerning electrical apparatus for potentially explosive atmospheres. Utilize the installation accessories supplied by CO.SI.ME. Before closing the ballast enclosure, check that threaded joint were lubricated and free of foreign matters and deformations. Replace gasket, when the apparatus is provided with gasket, during periodical maintenance. Lock the cover by means of socket screw. Cable entries with protection degree lower than IP 66 reduce the whole protection of the apparatus when it's provided with gaskets.

After de-energized wait 5 minutes before opening the enclosure



5 Manutenzione

Le riparazioni o sostituzioni di parti danneggiate o non funzionanti possono essere effettuate solo da personale esperto e qualificato con parti di ricambio fornite da CO.SI.ME. Le riparazioni che influiscono sul modo di protezione antideflagrante possono essere effettuate solo da CO.SI.ME.

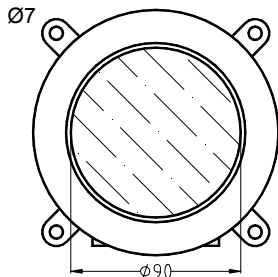
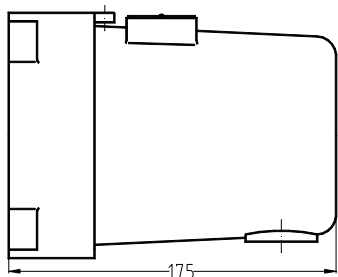
5 Maintenance

Repairs and replacements of damaged or faulty parts must be carried out by skilled and experienced personnel with spare parts supplied by CO.SI.ME. Repairs that affect explosion proof protection may only be carried out by CO.SI.ME



6 Eliminazione / Riciclaggio : L'eliminazione e riciclaggio del prodotto deve essere effettuata in accordo alle Norme nazionali in materia di rifiuti. **ATTENZIONE : NON DISPERDERE L'APPARECCHIO ED I SUOI COMPONENTI NELL'AMBIENTE.**

6 Disposal / Recycling : Disposal and recycling of the apparatus according to national regulations for waste disposal and recycling . **WARNING : DO NOT DISPOSE THE APPARATUS AND HIS COMPONENTS IN THE ENVIROMENT.**



Lampada Lamp	Classe di temperatura Temperature class	Temperatura superficiale massima Maximum surface temperature
Incandescenza max 100W Incandescent max 100W	T3	T 180 °C
Fluorescente max 23W Fluorescent max 23W	T4	T 130 °C
Alogena max 20W Halogen max 20W	T4	T 130 °C
Alogena max 50W Halogen max 50W	T3	T 180 °C