



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

**PTB 02 ATEX 2110 U**

(4) Equipment: Mains and supply unit VE/EVG 97218.. and supply module VE 97236.., both with battery set type 2710-3 (2710-3T)

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: Neuer Weg Nord 49  
69412 Eberbach, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council 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 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 the confidential report PTB Ex 03-22098.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014:1997+A1+A2**

**EN 50018:2000**

**EN 50019:2000**

**EN 50020:1994**

**EN 50028:1987**

(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, 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:

**2 II G EEx ed IIC (VE/EVG, VE) EEx edm ib IIC (battery set)**

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 30, 2003

By order:

Dr.-Ing. U. Gerlach



## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 2110 U**

(15) Description of equipment

The VE/EVG 97218 is a combined unit comprising an electronic ballast module (EVG) and supply module for mounting in an emergency luminaire.

The VE 97236.. is a supply module that is mounted in an emergency luminaire together with a separate EVG.

Among other things, the VE/EVG ..... and the VE modules both consist of an enclosure in the type of protection "Flameproof Enclosure" with connection contacts in the type of protection "Increased Safety".

During mains operation the EVG module supplies power to two fluorescent lamps, while the supply module provides the necessary charging power and monitors the mains. During emergency lighting operation the supply module takes on the power supply of one fluorescent lamp. The required power is drawn from the connected battery set, type 2710-3 (2710-3T), which consists of 5 accumulators, 1.2V /7 Ah, connected in series.

Depending upon the version, the VE/EVG..... and the VE..... are designed for an operating voltage of 220-254 V or 110-127 V AC.

For use in potentially explosive atmospheres the VE/EVG..., VE... and the battery set shall be mounted into an enclosure with the type of protection „Increased Safety“ and with a degree of protection of minimum IP54.

(16) Test report PTB Ex 03-22098

(17) Special conditions for safe use

None

(18) Essential health and safety requirements

Met by compliance with the standards mentioned above.

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, July 30, 2003

  
Dr.-Ing. U. Gerlach



sheet 2/2

## 1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 2110 U

(Translation)

Equipment: Mains and supply unit VE/EVG 97218.. with battery kit, type 2710-3 (2710-3T)

Marking:  2 II G EEx ed IIC (VE/EVG) EEx edm ib IIC (battery kit)

Manufacturer: Cooper Crouse-Hinds GmbH

Address: Neuer Weg Nord 49, 69412 Eberbach/Neckar, Germany

### Description of supplements and modifications

The mains and supply unit VE/EVG 97218.. with battery kit, type 2710-3 (2710-3T) may also be manufactured with a modified electronic circuitry under the designation VE/EVG 05 218.. .

The mains and supply unit VE/EVG 05 218.. meets the requirements according to DIN EN 61347-2-3 (clause 17.2 and clause 17.3) as well as the tests specified in the draft of IEC 60079-7 ed. 4 for electronic ballasts intended for application in luminaires of type of protection "Increased Safety".


### Applied standards

EN 50014:1997+A1+A2    EN 50018:2000    EN 50019:2000    EN 50020:1994    EN 50028:1987

Test report:    PTB Ex 06-26080

Zertifizierungsstelle Explosionsschutz

By order:

  
Dr.-Ing. U. Johannsmeyer  
Direktor und Professor



Braunschweig, May 31, 2006

Sheet 1/1

Physikalisch-Technische Bundesanstalt • Postfach 33 45 • 38023 Braunschweig

Cooper Crouse-Hinds GmbH  
Frau Frankhauser  
Neuer Weg Nord 49

69412 Eberbach / Neckar

Ihr Zeichen:  
Ihre Nachricht vom: 04.03.2008  
Unser Zeichen: 3.6-1160/08-Ka  
Unsere Nachricht vom:  
  
Bearbeitet von: R.Kulesa  
Telefondurchwahl: +49 531 592 35 26  
Telefaxdurchwahl: +49 531 592 37 05  
E-Mail: rainer.kulesa@ptb.de  
  
Datum: 7.3.2008

## **Ergänzung VE/EVG 05218 / VE 97236 (PTB 02 ATEX 2110 U) Erweiterung der Anschlussart (steckbar)**

Sehr geehrte Frau Frankhauser,

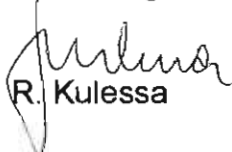
gegen die Ergänzung, die Anschlussart steckbar für das o.g. Betriebsmittel zu verwenden, bestehen keine sicherheitstechnischen Bedenken, unter der Bedingung, dass der CTI-Wert des Vergusses unverändert und die den Luft- und Kriechstrecken entsprechenden Arbeitsspannungen nicht über den bisher bescheinigten Werten liegen.

Die Änderung ist möglichst zeitnah bei einer folgenden Ergänzung zum Betriebsmittel zu berücksichtigen.

Alle anderen Angaben bleiben unverändert.

Mit freundlichen Grüßen

Im Auftrag



R. Kulesa