

(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 01ATEX2222**

(4) Equipment or protective system: **Electronic Beacon/Beacon Type BExCBG05-05D**

(5) Manufacturer: **European Safety Systems Ltd.**

(6) Address: **Impress House, Mansell Road, Acton, London W3 7QH, England**

(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.

The examination and test results are recorded in confidential report no. 2012854.

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

**EN 50014 : 1997      EN 50018 : 2000**

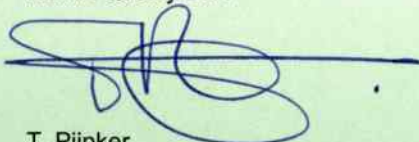
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance with 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.

(12) The marking of the equipment or protective system shall include the following:

 **II 2 G      EEx d IIB T5**

Arnhem, 28 February 2002  
KEMA Quality B.V.



T. Pijpker  
Certification Manager

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## SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 01ATEX2222

(15) **Description**

The Electronic Beacon/Beacon Type BExCBG05-05D, housed in aluminium enclosures in type of explosion protection flameproof enclosure "d", is used to provide visual warning signals.

Ambient temperature range  $-50\text{ }^{\circ}\text{C}$  ...  $+55\text{ }^{\circ}\text{C}$ .

**Electrical data**

Supply voltage	12 V DC	24V DC	48 V DC	115 V AC	230 V AC
Current (2x)	750 mA	300 mA	180 mA	55 mA	140 mA

**Installation instructions**

Suitable heat-resisting cables and cable glands, with a continuous operating temperature of at least  $95\text{ }^{\circ}\text{C}$ , shall be used when the ambient temperature exceeds  $40\text{ }^{\circ}\text{C}$ .

For external earthing or bonding connection a cable lug shall be used so that the conductor is secured against loosening and twisting and that contact pressure is permanently secured.

The cable entry devices and blanking elements shall be in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

**Routine test**

Routine tests according to Clause 16 of EN 50018 are not required since the type test has been made at a static pressure of four times the reference pressure.

(16) **Report**

KEMA No. 2012854.

(17) **Special condition for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA 00ATEX2006 X

dated

2. Description TDF 2404 (7 pages), issue A

10.01.2002

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## SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 01ATEX2222

### Test documentation (continued)

		<u>Dated</u>
3. Drawing No.	D 2447-01, rev. A	20.12.2001
	D 2447-02, rev. A	20.12.2001
	D 2447-03, rev. A	20.12.2001
	D 2447-04, rev. A	04.01.2002
	D 2448-04, rev. A	03.03.2000
	D2489, rev. B	04.01.2002
	PL2447-02, rev. A	20.12.2001
	CD 2447-01, rev. A	04.01.2002
	CD 2447-02, rev. A	04.01.2002
	CD 2446-02, rev. A	04.01.2002
	CD 2446-04, rev. A	04.01.2002
	4. Samples	

## AMENDMENT 1

### to EC-Type Examination Certificate KEMA 01ATEX2222

**Manufacturer:** European Safety Systems Ltd.

**Address:** Impress House, Mansell Road, Acton, London W3 7QH, England

#### Description

In future the Electronic Beacon/Beacon Type BExCBG05-05D may also be used in areas where of combustible dust may be present.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 50281-1-1 : 1998.

The Electronic Beacon/Beacon is marked with :  II 2 D T 100 °C

All other data remain unchanged.

The maximum surface temperature of the enclosure T 100 °C is based on a maximum ambient temperature of 55 °C.

#### Installation instructions


For combustible dust applications, the cable entry device and blanking elements shall be in type of explosion protection increased safety “e” or flameproof enclosure “d” and shall have an IP 6X rating according to EN 60529.

All other data remain unchanged.

#### Test documentation

	<u>dated</u>
1. Drawing No. D2447-07, rev. A	04.06.2003

Arnhem, 20 August 2003  
KEMA Quality B.V.



T. Pijpker  
Certification Manager