



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIM 04.0003** Issue No.: **0**

Status: **Current**

Date of Issue: **2004-09-24** Page **1** of **4**

Applicant: **European Safety Systems Ltd**
Impress House
Mansell Road
ACTON LONDON W3 7QH
United Kingdom

Electrical Apparatus: **BEx Range of Combination Sounder/Beacon**
Optional accessory:

Type of Protection: **Ex d, DIP**

Marking: **See schedule**

*Approved for issue on behalf of the IECEx
Certification Body:*

Ashraf Chowdhury

Position:

Principal Engineer

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Safety in Mines Testing and Research Station (Simtars)

2 Smith Street
REDBANK QLD 4301
Australia



Simtars
Queensland Government



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Page **2** of **4**

Manufacturer: **European Safety Systems Ltd**
Impress House
Mansell Road
ACTON LONDON W3 7QH
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 61241-1-1 : 1999 Edition: 2	Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:	File Reference:
AU/SIM/04/0003	03/0220



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Page **3** of **4**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The BEx range of Combination Beacon/Sounder is of cast aluminium alloy construction and comprises a Sounder section fitted with a plastic horn assembly, and a Beacon section fitted with a borosilicate glass flashdome and a stainless steel guard. The two sections are fastened together with hexagon socket head fasteners. Variations in the internal components allow the units to be operated at 230 Vac, 115 Vac or 24 Vdc. Two threaded entries are provided in the walls of the Beacon section of the apparatus for the fitting of separately certified cable glands. The BEx range of Combination Beacon/Sounder covered by this certificate is listed in Table 1.

Table 1: BEx Range of Combination Beacon/Sounder

Type / Model	Gas Group	Temperature class	IP rating	Input Supply /Electronic Assembly
BExDCS110-05D	IIB	T4	IP67	230 Vac 56 mA /55 mA 115 Vac 110 mA/140 mA 24 Vdc 265 mA/300 mA
BExDCL15-05D	IIB	T4	IP67	230 Vac 100 V line/55 mA 115 Vac 100 V line/140 mA 24 Vdc 100 V line/300 mA

CONDITIONS OF CERTIFICATION: NO



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Page **4** of **4**

EQUIPMENT(continued):

Marking

Models: BExDCS110-05D & BExDCL15-05D

Ex d IIB T4 T_a 55°C IP67

DIP A21 T_A T4 IP67 (T_{amb} -40°C to +55°C)

MANUFACTURER'S DOCUMENTS

DRAWING No.	TITLE	REVISION	DATE
D 3446-01	BExDC COMBINED UNIT FLAMEPROOF JOINT DETAIL	B	24-05-04
D 3446-02	BExDCS110-05D Sounder / Beacon Combined Unit Internal Assembly	B	24-05-04
D 3446-03	BExDCL15-05D 100V Line Loudspeaker / Beacon Combined Unit Internal Assembly	B	24-05-04
D 3446-06	BExDC----05D Sounder / Beacon Range Combined Unit Guard Assembly	A	25-07-03
D 3448-04	BExBG—D Ex WELLGLASS FLANGED FLASHDOME	A	25-07-03
D 3489	BExBG BEACON GLASS DOME GUARD	A	25-07-03
PL3446-02	BExDCS110-05D (SIMTARS) Ex 'd' COMBINED SOUNDER / BEACON	B	24-05-04
PL 3446-03	BExDCL15-05D 15W (SIMTARS) Ex 'd' COMBINED LOUDSPEAKER / BEACON (100V Line)	B	24-05-04
CD 3446-01	BExDCS110-05D DC SOUNDER / BEACON BLOCK DIAGRAM	A	25-07-03
CD 3446-02	BExDC COMBINED DC BEACON BLOCK DIAGRAM	A	25-07-03
CD 3446-03	BExDCS110-05D AC SOUNDER / BEACON BLOCK DIAGRAM	A	25-07-03
CD 3446-04	BExDC COMBINED AC BEACON BLOCK DIAGRAM	A	25-07-03
CD3446-05	BExDCL15-05D LOUDSPEAKER / BEACON BLOCK DIAGRAM	A	25-07-03
D 3446-18	SIMTARS Label BExDCS110-05D Ex 'd' SOUNDER / BEACON	B	07-06-04
D 3446-19	SIMTARS Label BExDCL15-05D Ex 'd' Loudspeaker/Beacon	B	07-06-04
D 3446-22	BExDCS and BExDCL PLASTIC HORN ASSEMBLY AND MOUNTING BRACKET ASSEMBLY	A	24-05-04
D 3428	PRESSED WIRE ELEMENT	A	24-05-04

Annexe: