



# Certificate

## of Approval of Components and Systems

Holder of the Approval:

European Safety Systems Ltd.  
Impress House, Mansell Road  
GB- Acton, London W3 7QH

Approval No.:	No. of pages:	Valid from:	Valid to:
G 206011	4	22.03.2010	21.03.2014

Subject matter of the Approval:

Sounders  
Type BE-Series

Use:

in Automatic Fire Detection and Fire Alarm Systems

Basis for approval:

DIN EN 54-3:2006-08 - Sounders  
VdS 2504:1996-12 - Smoke Detectors, Sect. 5.6  
VdS 2344:2005-12 - Procedure Guidelines  
VdS 2203:2001-03 - Software Controlled System Components

**This approval** is valid only for the specified component/system as submitted for the test

- together with the parts listed in enclosure 1
- documented in the technical papers acc. to enclosure 2 (n/a for systems)
- for application in the specified fire protection and security installations. Use of the subject matter of the approval, is subject to the hints/comments of enclosure 3.

The validity of the approval can be extended upon application. Application for extension shall be submitted six months before expiry of the current approval at the latest.

This certificate may only be reproduced in its present form without any modification including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS Certification Body enclosing the required documentation.

Any advertising with this VdS approved component/system shall reflect the correct contents of the certificate and shall not violate the trade practice rules.

Köln (Cologne), 17.05.2010

Schüngel

Managing Director

i.V. Hesels

Head of the VdS Certification Body

VdS Schadenverhütung GmbH  
Zertifizierungsstelle  
Amsterdamer Str. 174  
D-50735 Köln

A company of the German Insurance Association (GDV) (German federation of insurance companies)

Accredited by the "Deutsche Akkreditierungsstelle Technik (DATech)" as a certification body for the areas of fire protection and security



DAT-ZE 005/92



**Enclosure 1**

**Sheet 1**

To Certificate of Approval No. G 206011

Date 17.05.2010

The approved component/system comprises the following parts:

Description of component	Type	Applicant's Registration No.	Approval number of component (only complete for system approval)
Sounder (24V DC) Sounder (24V DC)	BExS110D BExS120D		



To Certificate of Approval No. G 206011

Date 17.05.2010

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA 06016 dated 02.03.2006 VdS Software Test Report No. SW-2005214 dated 09.05.2005			
Technical Remarks (ATEX)	BExS120D and BExS110D German Index A	04.10.02	2
Technical Description BExS110D	TSP2401-C		2
Technical Description BExS120D	TSP2402-C		2
Circuit Diagram BExS120D	CD 2409CPD Index A	30.01.06	1
Circuit Diagram BExS110D	CD 2411CPD Index A	30.01.06	1
Assembly Drawing BExS120D	D 2444-02CPD Index A	30.01.06	1
Assembly Drawing BExS110D	D 2444-03CPD Index A	30.01.06	1
Drawing Housing BExS120D & BExS110D	D 2485CPD Index A	30.01.06	1
Component List BExS120D	PL 2444-02CPD Index A	30.01.06	2
Component List BExS110D	PL 2444-03CPD Index A	30.01.06	2
Mounting List BExS120D	CL 2409CPD Index A	30.01.06	1
Mounting List BExS110D	CL 2411CPD Index A	30.01.06	1



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Instructions for the application of the approval component/system (see enclosure 1):

32 different tones each can be adjusted at sounders type BExS110D and BExS120D. können jeweils

The following tones are tested and approved for the use in automatic fire detection and fire alarm systems:

<u>Tone No</u>	<u>Tone</u>	<u>Frequency</u>	<u>Modulation</u>
2	Alternating tone	800 Hz/1000 Hz	0.25 sec
3	Sweep	500 Hz/1200 Hz	0.3Hz 0.5 sec
9	Whoop	1200 Hz/500 Hz	1Hz
15	Continuous tone	800 Hz	
16	Intermittend	660 Hz	150 ms on, 150 ms off
17	Alternating tone	544 Hz/440 Hz	100 ms/400 ms

Sounders type BExS110D and BExS120D both comply with type B for an outdoor application.

Operating voltage (DC):	24 V	
Operating voltage range (DC):	18 V to 30V	
Max. current consumption:	250 mA	(at BExS110D)
Max. current consumption:	800 mA	(at BExS120D)

The notified testing body KEMA certifies with EC Prototype Test Attestation KEMA 99 ATEX 6312 dated 13.12.1999 conformity of sounders type BExS110D and BExS120D declaration of conformity with the harmonized European standards 'Electrical Apparatuses for Hazardous Areas'.

Marking: II 2G EEx d IIC T4