



Certificate

of Approval of Components and Systems

Holder of the Approval:

Cranford Controls Ltd.
Unit 2, Waterbrook Estate, Waterbrook Road
GB- Alton, Hampshire, GU34 2UD

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.

Approval No.:	No. of pages:	Valid from:	Valid to:
G 205137	5	16.11.2009	15.11.2013

Subject matter of the Approval:

Sounder
Type VTG-32E

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 (EMC)
VdS 2344:2005-12 - Procedure Guidelines

Köln (Cologne), 16.11.2009

Schüngel

Managing Director

ppa. Stahl

Head of the VdS Certification Body



DAT-ZE 005/92

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

Enclosure 1

Sheet 1

To Certificate of Approval No. G 205137

Date 16.11.2009

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, shallow Base, red	VTG-32E-SB-R	510-017	
Sounder, shallow Base, white	VTG-32E-SB-W	510-018	
Sounder, deep Base, red	VTG-32E-DB-R	510-019	
Sounder, deep Base, white	VTG-32E-DB-W	510-020	

Enclosure 2

Sheet 1

To Certificate of Approval No. G 205137

Date 16.11.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
BRE Test Report No. TE 228831 dated 14.06.2006			
BRE Test Report No. TE 217407 dated 11.11.2004			
BRE Software Test Report No. TE 217407 SW dated 29.11.2004			
Product Datasheet	DS039F, Issue 008	07.2009	1/3
Typical Sound Output	DS039F, Issue 008	07.2009	2/3
Polar Diagrams	DS039F, Issue 008	07.2009	3/3
Circuit Diagram CD025 (VTG-32)	CD025, Issue 1.00	20.07.2004	1
Label	123-034, Issue V.8	08.2006	1
Box Label	123-100, Issue V.4	2006	1
Bill of Materials VTG-32E-SB-R	510-017, Rev. 2.01	---	1
Bill of Materials VTG-32E-SB-W	510-018, Rev. 2.01	---	1
Bill of Materials VTG-32E-DB-R	510-019, Rev. 2.01	---	1
Bill of Materials VTG-32E-DB-W	510-020, Rev. 2.01	---	1
Critical Component List	510-017, V.02	09.01.2009	1
Critical Component List	510-018, V.02	09.01.2009	1
Critical Component List	510-019, V.02	09.01.2009	1
Critical Component List	510-020, V.02	09.01.2009	1
Work Instruction	WI072, Issue 019	01.07.2008	4
PCB Layout		07.06.2005	7

Enclosure 2

Sheet 2

To Certificate of Approval No. G 205137

Date 16.11.2009

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Instruction Inserts:			
VTG-32E-SB-W ; VTG-32E-DB-W (German)	125-026, Issue 011	---	2
VTG-32E-SB-R ; VTG-32E-DB-R VTG-32E-SB-W ; VTG-32E-DB-W (English)	125-031, Issue 006	---	2
Mechanical Drawings:			
Vantage Shallow Base Assembly	401-000, Issue 001	31.01.2003	1
Vantage Body	401-001, Issue 002	24.04.2003	1
Vantage Nose Cone	401-002, Issue 001	31.01.2003	1
Vantage Cover Plate	401-003, Issue 002	24.04.2003	1
Vantage Cover Plate	401-003A, Issue 001	04.05.2004	1
Vantage Shallow Base	401-004, Issue 002	24.04.2003	1
Vantage Deep Base Assembly	401-005, Issue 001	31.01.2003	1
Vantage Deep Base	401-006, Issue 002	24.04.2003	1
Vantage Deep Base Cover	401-007, Issue 001	31.01.2003	1

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

Type VTG-32E-SB with shallow base is of type A, for indoor application.

Type VTG-32E-DB with deep Base is of type B, for outdoor application.

32 different tones may be adjusted at the sounder type VTG-32E.

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

<u>No.</u>	<u>Tone</u>	<u>Frequency</u>
1	LF Sweep	800 - 1000Hz @ 0.5 s
8	2 nd Stage, LF Continuous	800Hz
11	2 nd Stage, Dutch Sweep Tone	500 - 1200Hz @ 1Hz
25	German Sweep Tone	1200 - 500Hz @ 1Hz
27	French Tone AFNOR	554Hz for 100ms / 440Hz for 400ms

Operating Voltage: 24 V DC (21.6 V - 28.0 V)

Current Consumption: ≤ 36 mA (High volume)
 ≤ 18 mA (Medium volume)
 ≤ 9 mA (Low volume)