



Certificate

of
Approval
of
Components and Systems

Holder of the Approval:

Klaxon Signals Ltd.
Wrigley Street

GB- Oldham, Lancashire OL4 1HW

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.

<i>Approval No.:</i>	<i>No. of pages:</i>	<i>Valid from:</i>	<i>Valid to:</i>
G 208028	5	14.02.2008	13.02.2012

Subject matter of the Approval:

Sounder
Typ 18-980622 Nexus 110

Use:

in Automatic Fire Detection Systems

Basis for approval:

VdS 2344 (12/05) - Procedure Guidelines
VdS 2504 (12/96) - Smoke Detectors, Clause 5.6
DIN EN 54, Part 3 (08/06) - Sounders

Köln (Cologne), 21.02.2008

Schüngel
Managing Director

i. V. Lüttenberg
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

To Certificate of Approval No. G 208028

Date 21.02.2008

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 with LED Beacon, Red	18-980622		
Sounder with LED Beacon, Amber	18-980623		
Sounder with LED Beacon, White	18-980664		
Sounder with LED Beacon, Green	18-980665		
Sounder with LED Beacon, Blue	18-980666		

To Certificate of Approval No. G 208028

Date 21.02.2008

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
BRE Prüfbericht Nummer TE 230558, vom 18.04.2007			
BRE Software Prüfbericht Nummer TE 230558-SW, vom 25.07.2007			
18-980622 / 18-980623 / 18-980664 / 18-980665 / 18-980666:			
Installation Manual, Tone table	18-186458 Issue 6	Januar.2008	3
Transducer Gasket	18-186323 Issue A	01.07.2006	1
Large Cone	18-186308 Issue A	01.07.2006	1
Nexus Large Horn	18-186310 Issue B	31.07.2006	2
Largel Nexus Base	18-186312 Issue A	01.07.2006	1
Large Horn Cover	18-186313 Issue A	01.07.2006	1
Large Beacon Lens	18-186314 Issue B	19.02.2007	1
Large Head to Base Gasket	18-186320 Issue A	07.10.2005	1
Large Beacon to Head Gasket	18-186321 Issue A	07.01.2005	1
Quarter turn stud	18-186555 Issue A	15.05.2006	1
Base Cover	18-186315 Issue B	19.02.2007	1
4T Adapter	18-186309 Issue A	01.07.2006	1
GA Nexus 110 Sounder-LED-Beacon	18-980622 Issue C	29.06.2007	1
Nexus 110 Sounder + LED Beacon General Assembly	18-980622 Issue C	29.06.2007	1
PCB Artwork Sounder DC Nexus 110	18-186352 Issue B	04.07.2006	3
Nexus Schematic Sounder DC Nexus 110	18-186353 Issue D	15.05.2006	1

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Marking Details For Nexus	18-186705 Issue B	13.02.2007	1
Nexus 110 Technical Datasheet	18-186529 Issue 1	16.02.2007	12
Sounder with LED Beacon, Red	BOM for 18-980622	02.07.2007	3
Sounder with LED Beacon, Amber	BOM for 18-980623	02.07.2007	3
Sounder with LED Beacon, White	BOM for 18-980664	02.07.2007	3
Sounder with LED Beacon, Green	BOM for 18-980665	02.07.2007	3
Sounder with LED Beacon, Blue	BOM for 18-980666	02.07.2007	3

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

For the use in fire detection and fire alarm systems only the following tones are approved:

Ton-No.	Tone	Frequency	
01	Continuous tone	970 Hz	
02	Alternating tone	800/970 Hz	2 Hz
03	Slow whoop	800-970 Hz	1 Hz
06	Alternating tone	554 Hz / 440 Hz	100ms / 400ms
07	Slow whoop	500-1200 Hz	3,5s / 0,5s Pause
13	Slow whoop	1200-500 Hz	1 Hz

The sounders are Type B sounders and designed for the outside use.

The sounder is equipped with a LED Beacon (possible colours are red, white, amber, blue, green)

18-980622 / 18-980623 / 18-980664 / 18-980665 / 18-980666:

Operating voltage range:	10 - 60 V DC
Current consumption Sounder:	10 - 50 mA
Current Consumption Beacon:	18mA (flashing) 65mA (static)