



# Certificate

of  
**Approval**  
of  
**Components and Systems**

*Holder of the Approval:*  
**Klaxon Signals Ltd.**  
Wrigley Street

GB- Oldham, Lancashire OL4 1HW

<i>Approval No.:</i>	<i>No. of pages:</i>	<i>Valid from:</i>	<i>Valid to:</i>
G 208026	5	14.02.2008	13.02.2012

*Subject matter of the Approval:*  
**Sounder**  
Typ 18-980543 Nexus 105

*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

**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), 21.02.2008

  
**Schünger**  
Managing Director

  
**i. V. Lüttenberg**  
Head of the VdS Certification Body

To Certificate of Approval No. G 208026

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 XENON Beacon, Red	18-980543		
Sounder with XENON Beacon, Amber	18-980544		
Sounder with XENON Beacon, White	18-980588		
Sounder with XENON Beacon, Green	18-980653		
Sounder with XENON Beacon, Blue	18-980655		

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Date 21.02.2008

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
BRE Test Report Number TE 230558, from 18.04.2007			
BRE Software Test Report Number TE 230558-SW, from 25.07.2007			
<b>18-980543 / 18-980544 / 18-980588 / 18-980653 / 18-980655:</b>			
Installation Manual, Tone table	18-186456 Issue 7	Januar.2008	3
Transducer Gasket	18-186323 Issue A	01.07.2006	1
Small Cone	18-186366 Issue A	01.07.2006	1
Nexus 105 Horn	18-186367 Issue B	31.07.2006	2
Small Nexus Base	18-186369 Issue A	01.07.2006	1
Nexus 105 Horn Cover	18-186370 Issue A	01.07.2006	1
Nexus 105 Beacon Lens	18-186371 Issue B	19.02.2007	1
Small Head to Base Gasket	18-186374 Issue A	01.01.2005	1
Small Beacon to Head Gasket	18-186375 Issue A	07.01.2005	1
Quarter turn stud	18-186555 Issue A	15.05.2006	1
GA Nexus 105 Sounder-XENON Beacon	18-980543 Issue C	29.06.2007	1
PCB Artwork Sounder DC Nexus 105	18-186347 Issue B	03.07.2006	3
Circuit Schematic Sounder DC Nexus 105	18-186347 Issue E	12.07.2007	1
Marking Details for Bexus	18-186705 Issue A	13.02.2007	1
Nexus 105 Technical Datasheet	18-186528 Issue 1	16.02.2007	10
Sounder with 5J Xenon Beacon, Red	BOM for 18-980543	02.07.2007	2

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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Sounder with 5J Xenon Beacon, Amber	BOM for 18-980544	02.07.2007	2
Sounder with 5J Xenon Beacon, White	BOM for 18-980588	02.07.2007	2
Sounder with 5J Xenon Beacon, Green	BOM for 18-980653	02.07.2007	2
Sounder with 5J Xenon Beacon, Blue	BOM for 18-980655	02.07.2007	2

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

It is possible to select 64 different tones of the sounder.

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 Xenon Beacon (possible colours are red, white, amber, blue, green)

18-980543 / 18-980544 / 18-980588 / 18-980653 / 18-980655:

Operating voltage range:	10 - 60 V DC
Current consumption Sounder	10 - 50 mA
Current consumption Beacon:	250mA (700mA Spitzen)