



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 208024 | 4 | 13.02.2008 | 12.02.2012 |

Subject matter of the Approval:

Sounder
18-980542 Nexus 105

Use:

in Automatic Fire Detection Systems

Basis for approval:

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

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



Enclosure 1

Sheet 1

To Certificate of Approval No. G 208024

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 | 18-980542 | | |

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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 | | | |
| 18-980542: | | | |
| 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 |
| Quarter turn stud | 18-186555 Issue A | 15.05.2006 | ??? |
| GA Nexus 105 Sounder-Only | 18-980542 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 Nexus | 18-186705 Issue A | 13.02.2007 | 1 |
| Nexus 105 Technical Datasheet | 18-186528 Issue 1 | 16.02.2007 | 10 |
| BOM for 18-980542 | 18-980542 | 02.07.2007 | 2 |



Enclosure 3

Sheet 1

To Certificate of Approval No.: G 208024

Date 21.02.2008

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.

18-980542:

Operating voltage range: 10 - 60 V DC
Current consumption Sounder: 10 - 50 mA