



# Certificate

## of Approval of Components and Systems

Holder of the Approval:

Cooper Fulleon Ltd.  
Llantarnam Park, Cwmbran  
GB- Gwent, NP44 3 AW

**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 206027	5	01.04.2010	31.03.2014

Subject matter of the Approval:

Sounder  
Type Symphoni High Power

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

Köln (Cologne), 01.04.2010

**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  
(DA Tech)" as a certification body  
for the areas of fire protection  
and security



DAT-ZE 005/92



To Certificate of Approval No. G 206027

Date 01.04.2010

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 (Standard Version)	Symphoni High Power	SYHO/C	
Sounder (European Version)	Symphoni High Power	SYHO/C/WP	



To Certificate of Approval No. G 206027

Date 01.04.2010

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
BRE Test Report No. TE 221657 dated 05.09.2005			
<b>Common Documents:</b>			
Technical Manual	M96-002 Issue 3	11.07.05	14
Circuit Diagram	C2001-028 Issue D	13.07.05	1
PCB layout drawing SMT	14-0040 Issue F	22.03.01	1
PCB layout drawing PTH	14-0040 Issue F	22.03.01	1
Batch Label Drawing	25-7466 Issue A	18.12.01	1
Installation Leaflet Drawing	25-5780 Issue A	10.02.05	2
<b>SYHO/C:</b>			
Parts List SYHO/C	651006CPD Issue 4	27.09.05	3
General Assembly	GD044 Issue B	23.06.05	1
Cone Moulding Drawing	26-273 Issue A	25.11.04	1
Horn Moulding Drawing	26-272 Issue B		
Base Moulding Drawing	26-274 Issue B	03.06.05	1
Connection Label Drawing	25-3124 Issue C	27.06.05	1
<b>SYHO/C/WP:</b>			
Parts List SY/C/WP	654008FULL-0057X Issue 2	27.09.05	3
General Assembly	GD045 Issue A	31.01.05	1
Cone Moulding Drawing	26-112 Issue A	1998	1

To Certificate of Approval No. G 206027

Date 01.04.2010

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
<p><b>SYHO/C/WP:</b>                      Horn Moulding Drawing                      Base Moulding Drawing                      Connection Label Drawing</p>	<p>26-224 Issue C                      26-190 Issue C                      25-5465 Issue C</p>	<p>28.05.03                      27.06.05</p>	<p>1                      1</p>



**Enclosure 3**

**Sheet 1**

To Certificate of Approval No.: G 206027

Date 01.04.2010

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

32 different tones may be adjusted at sounders type Symphoni High Power.

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

<u>Tone No.</u>	<u>Tone</u>	<u>Frequency</u>	
3	Slow whoop	(800 ... 970) Hz	1 Hz
7	Slow whoop	(500 ... 1200) Hz	3,5s / 0,5s Pause
8	Slow whoop	(1200 ... 500) Hz	1 Hz
14	Continuous tone	970 Hz	
29	Alternating tone	990 Hz / 650 Hz	250ms / 250ms
30	Alternating tone	510 Hz / 610 Hz	250ms / 250ms

Version SYHO/C of sounder type Symphoni High Power corresponds to type A for the use in buildings, version SYHO/C/WP corresponds to type A/B for the use in buildings and in the open.

Operating voltage range:

(18 - 28) V DC

Alarm current:

(220 - 260) mA