



# 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 206026	5	01.04.2010	31.03.2014

Subject matter of the Approval:

Sounder  
Type Symphoni Low 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  
(DATech)" as a certification body  
for the areas of fire protection  
and security



DAT-ZE 005/92



To Certificate of Approval No. G 206026

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 Low Power	SY/C	
Sounder (European Version)	Symphoni Low Power	SY/C/E	
Sounder (Standard Version)	Symphoni Low Power	SY/C/WP	
Sounder (European Version)	Symphoni Low Power	SY/C/E/WP	



To Certificate of Approval No. G 206026

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 221656 dated 18.08.2005			
<b>Common Documents:</b>			
Technical Manual	M96-002 Issue 3	11.07.05	14
Circuit Diagram SY/C + SY/C/WP	D96-004 Issue 5		
Circuit Diagram SY/C/E + SY/C/E/WP	C2004-097 Issue A1	10.02.04	1
Piezo Housing Drawing	26-113 Issue D	20.01.05	1
Piezo Inner Drawing	26-114 Issue B	24.07.00	1
PCB layout drawing SMT	14-0034 Issue D	25.03.03	1
PCB layout drawing PTH	14-0034 Issue D	25.03.03	1
Batch Label Drawing	25-7466 Issue A	18.12.01	1
Installation Leaflet Drawing SY/C + SY/C/WP	25-5780 Issue A	10.02.05	2
Installation Leaflet Drawing SY/C/E + SY/C/E/WP	25-5646 Issue B	01.02.05	2
<b>SY/C + SY/C/E:</b>			
Parts List SY/C	650003CPD Issue 3	27.09.05	3
Parts List SY/C/E	650008FULL-0073X Issue 3	27.09.05	3
General Assembly	GD040 Issue A	31.01.05	1



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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
<b>SY/C + SY/C/E:</b>			
Cone Moulding Drawing	26-273 Issue A	25.11.04	1
Horn Moulding Drawing	26-271 Issue B	03.06.05	1
Base Moulding Drawing	26-274 Issue B	03.06.05	1
Connection Label Drawing	25-1634 Issue D	27.06.05	1
Product Label Drawing	25-7948 Issue B	27.06.05	1
<b>SY/C/WP + SY/C/E/WP:</b>			
Parts List SY/C/WP	654008FULL-0058X Issue 5	27.09.05	3
Parts List SY/C/E/WP	654019FULL-0075X Issue 3	27.09.05	3
General Assembly	GD041 Issue A	31.01.05	1
Cone Moulding Drawing	26-112 Issue A	1998	1
Horn Moulding Drawing	26-221 Issue C	26.09.01	1
Base Moulding Drawing	26-190 Issue C	28.05.03	1
Connection Label Drawing SY/C/WP	25-5466 Issue C	27.06.05	1
Connection Label Drawing SY/C/E/WP	25-5648 Issue B	27.06.05	1
Product Label Drawing	25-7949 Issue B	27.06.05	1



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

4 different tones may be adjusted at sounders type Symphoni Low Power. The sounders are available as 'Standard Version' and as 'European Version'. For both models 3 tones each were tested.

For 'Standard Versions' type SY/C and SY/C/WP 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>	
29	Alternating tone	990 Hz / 650 Hz	250ms / 250ms
33	Continuous tone	990 Hz	
34	Pulse tone	990 Hz	500ms / 500ms

For 'European Versions' type SY/C/E and SY/C/E/WP 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>	
7	Slow whoop	(500 ... 1200) Hz	3,5s / 0,5s Pause
8	Slow whoop	(1200 ... 500) Hz	1 Hz
33	Continuous tone	990 Hz	

Models SY/C and SY/C/E of sounders type Symphoni Low Power correspond to type A for the use in buildings, models SY/C/WP and SY/C/E/WP correspond with type A/B for the use in buildings and in the open.

Operating voltage range: (18 - 28) V DC  
Alarm current: (0.5 - 11) mA