



# Certificate

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

Holder of the Approval:

System Sensor Europe  
Charles Avenue  
GB- Burgess Hill, West Sussex RH15 9UF

Approval No.:	No. of pages:	Valid from:	Valid to:
G 201016	5	28.05.2007	27.05.2011

Subject matter of the Approval:

Rate of Rise Heat Detector  
Type ECO1005

Use:

in Automatic Fire Detection Systems

Basis for approval:

DIN EN 54, Part 5 (03/01) - Heat Detectors  
VdS 2503 (12/96) - Heat Detectors, Sect. 5.6  
VdS 2344 (12/05) - Procedure Guidelines

Köln (Cologne), 30.04.2007

Schüngel

Managing Director

i.V. Lüttenberg

Head of the VdS Certification Body

**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

**by registered mail** 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.



DAT-ZE 005/92-32

**VdS Schadenverhütung GmbH**  
Zertifizierungsstelle  
Amsterdamer Str. 174  
D-50735 Köln

in the Gesamtverband der Deutschen Versicherungswirtschaft e.V. (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 201016

Date 30.04.2007

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)
Rate of Rise Heat Detector	ECO1005		
Detector Base	ECO1000DB		
Detector Base	ECO1000 DBR		
Detector Base	ECO1000 DBRSD		
Detector Base	ECO1000B		
Detector Base	ECO1000BSD		
Detector Base	ECO1000BR		
Detector Base	ECO1000 BRSD		
Detector Base	ECO1000 BR680		
Detector Base	ECO1000 BR680SD		
Detector Base	ECO1000 BR1000		
Detector Base	ECO1000 BR1000SD		



To Certificate of Approval No. G 201016

Date 30.04.2007

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
LPC Test Report Number TE 201773, dated 22.01.2001			
BRE Test Report Number TE 211421, dated 15.05.2003			
BRE Test Report Number TE 214248, dated 12.01.2004			
BRE Test Report Number TE 214279, dated 18.05.2004			
<b>ECO 1005:</b>			
ECO1005 Product Specification	S00-172-01 C	16.04.04	3
ECO1005, ECO1005T and ECO1004T Installation Manual	I56-1652-012	2006	1
ECO1005 Label Drawing	N04-804-01 B	12.02.07	1
ECO1005 Parts List	-	26.01.07	4
Thermistor Cap ECO1000 Series	C58-378-XX TC	05.03.01	1
Schematic ECO1005 and ECO1500T Thermal Detector	C37-763-020 B	25.10.06	1



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Date 30.04.2007

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
<b>ECO1000 series common documents:</b>			
ECO1000Bxxx Product Specification	S00-174-00 C	05.12.02	6
Base ECO1000B	B07-215-00 D	14.03.05	4
Swirl Chamber Base ECO1000 Series	B07-216-01 C	08.11.05	2
Thermistor Cap ECO1000 Series	C58-378-XX A	14.03.05	1
Cover Photo/Therm. ECO1000 Series	H58-206-XXX D	14.03.06	7
ECO1000 Series Artwork	P30-763-100 A	12.09.06	5
ECO1000 Manual Assembly DWG	X70-2838-000 A	18.01.06	1
Thermal Detector ECO1000 SMD ASSY Drawing	X70-2836-000 D	25.10.06	1



**Enclosure 3**

**Sheet 1**

To Certificate of Approval No.: G 201016

Date 30.04.2007

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

On account of its response behaviour rate of rise heat detector type ECO1005 is classified as a detector of class A1R.

When used in automatic fire detection and fire alarm systems, ceiling heights of rooms shall not exceed 7.5 m.

Supply voltage range:	(8 - 30) V DC
Quiescent current consumption:	(55 ... 95) $\mu$ A
Max. alarm current:	50 mA