



Certificate

of Approval of Components and Systems

Holder of the Approval:

Bosch Sicherheitssysteme GmbH
Robert-Koch-Straße 100

D-85521 Ottobrunn

Approval No.:	No. of pages:	Valid from:	Valid to:
G 204129	6	26.04.2006	25.04.2010

Subject matter of the Approval:

Optical Smoke Detector Scattered-Light Type
Type FAP-O500

Use:

in Automatic Fire Detection Systems

Basis for approval:

DIN EN 54, Teil 7 (03/01) - Smoke Detectors
VdS 2504 (12/96) - Smoke Detectors
VdS 2344 (02/99) -Procedure Guidelines

Köln (Cologne), 18.09.2006

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

A company of 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



To Certificate of Approval No. G 204129

Date 18.09.2006

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)
Optical smoke detector scattered-light type	FAP-O500		
Optical smoke detector scattered-light type	FAP-O500-P		
Base	FAA-500		
Base	FAA-500-R		
Surface mounted base	FAA-500-SB		
	FAA-500-SB-		
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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA 04097, dated 10.12.2004			
VdS Test Report No. BMA 05088, dated 27.10.2005			
VdS Test Report No. BMA 06009, dated 02.03.2006			
VdS Software-Test Report No. SW- 2003218, dated 02.12.2004			
FAP-O500:			
Product information	601-4998152788	12.10.04	33
Installation note: detector base	610-F.01U.000.615	12.10.04	2
Installation note: cavity socket	610-F.01U.000.618	12.10.04	2
Installation note: smoke detector series LSN	610-F.01U.000.625	12.10.04	2
Detector board: IDOC-L	300-4998139126	17.02.04	3
Detector board: IDO-L	300-4998150217	17.02.04	3
C sensor board: ICOS	300-4998139655	14.01.04	1
Base board: IB-L	300-4998143300	09.09.04	1
Base board: IB-LR	300-4998150215	12.10.04	1
Detector board: IDOC-L	324-4998139126	17.02.04	1
Detector board: IDO-L	324-4998150217	17.02.04	1
C sensor board: ICOS	324-4998139655	14.01.04	1
Base board: IB-L	324-4998143300	09.09.04	1



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Type of document	Manufacturer's identification	Date	Number of Pages
Base board: IB-LR	324-4998150215	12.10.04	1
Layout IDOC-L	4998139125 L1	17.02.04	2
Layout IDOC-L	4998139125 L2	17.02.04	2
Layout ICOS	4998139654 L1	14.01.04	2
Layout ICOS	4998139654 L2	14.01.04	2
Layout IB-L	4998150234 L1	09.09.04	1
Layout IB-L	4998150234 L2	09.09.04	1
Parts list IDOC-L	001-4998139126	17.02.04	9
Parts list IDO-L	001-4998150217	17.02.04	9
Parts list C sensor board: ICOS	001-4998139655	14.01.04	2
Parts list base board: IB-L	001-4998143300	09.09.04	1
Parts list base board: IB-LR	001-4998150215	12.10.04	3
Hardware description detector board	309-4998139126	15.12.03	2
Hardware description Csensor board	309-4998139655	03.03.04	1
Hardware description base board IB-LR.	309-4998150215	15.12.03	2
Design drawing OC500LSN	000-4998143522	24.03.04	1
Design drawing OC500-P LSN	000-4998150696	24.03.04	1
Design drawing: cavity socket	000-4998151302	24.03.04	1
Design drawing: cavity socket mount.	000-4998141951	24.03.04	1
Design drawing: base LSN relay	000-4998151299	24.03.04	1



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The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Design drawing: base LSN-R mount.	000-4998150923	24.03.04	1
Surface mounted base complete FAA-500-SB	000-F.01U.508721	15.09.04	1
Surface mounted base moisture room complete FAA-500-SB-H	000-F.01U.510166	15.09.04	1
Installation of fire detector FAP500 in ring light TR-40W		15.07.05	5
Technical drawing ring light	2-013734		1
Connection drawing Rotaris	BDL-F.01U.025.745	09.02.06	4



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

Smoke detector type FAP-O500 is suitable for the use in automatic fire detection and fire alarm systems with LSN technology of the company Bosch.

If used in automatic fire detection and fire alarm systems it shall be regarded, that the optical smoke detector scattered light type is designed for ceiling flushed installation. In special cases a surface mounted installation is possible only by use of the surface mounted socket stipulated by the manufacturer.

Furthermore the projection instructions of the manufacturer, especially the socket spring stipulated by the manufacturer depending on the ceiling construction shall be regarded.

The detector shall only be installed outside the hand area (2.5m). The distance to light fittings shall be more than 0.5m.

The detector may be operated either in combination with the ceiling flushed light type Rotaris TBS740 of the company Philips or with the ceiling flushed light type TR-40W and external control gear of the company Ludwig Leuchten KG. The installation and mounting instructions of the manufacturer shall be regarded.

Important technical data (acc. to manufacturer specifications):

Operating voltage range:	(20...33) VDC
Current consumption:	approx. 3.5Ma
Protection class:	IP53
Ambient temperature:	-20°C < T < +65 °C