



Certificate

of
Approval
of
Components and Systems

Holder of the Approval:

Notifier Sicherheitssysteme GmbH
Berliner Straße 91
DE-40880 Ratingen

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 202099 | 7 | 12.05.2010 | 11.05.2014 |

Subject matter of the Approval:

Control and Indicating Equipment
Type NF 50; NF 50-S

Use:

in Automatic Fire Detection and Fire Alarm Systems

Basis for approval:

DIN EN 54-2:1997-12 + A1:2007-01 - Control and Indicating Equipment

DIN EN 54-4:1997-12 + A1:2003-03 + A2:2007-01 - Power Supply Equipment

VdS 2540:2009-11 Draft - Control and Indicating Equipment

VdS 2541:1996-12 - Power Supply Equipment

VdS 2344:2005-12 - Procedure Guidelines

Köln (Cologne), 07.05.2010

Schüngel

Managing Director

ppa. Stahl

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



Enclosure 1

Sheet 1

To Certificate of Approval No. G 202099

Date 07.05.2010

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) |
|---|--|------------------------------|--|
| Control and Indicating Equipment Control and Indicating Equipment <u>consisting of:</u> Main Board Power Supply Equipment | NF 50 NF 50-S 124-391-001 PSU3A | | |



To Certificate of Approval No. G 202099

Date 07.05.2010

The approved component/system is described as follows:

| Type of document | Manufacturer's identification | Date | Number of Pages |
|---|-------------------------------|------|-----------------|
| VdS Test Report No. BMA 02059 dated 09.12.2002 | | | |
| VdS Test Report No. BMA 10050 dated 23.04.2010 | | | |
| VdS Test Report No. BMA 10051 dated 23.04.2010 | | | |
| VdS Software Test Report No. SW 2001241 dated 28.11.2002 | | | |
| VdS Software Test Report No. SW 2008232 dated 24.04.2009 | | | |
| Installation-, Commissioning- and Configuration Instructions | 997-444-003-8, Ausgabe 8 | | 114 |
| Operating Instructions | 997-445-003-7, Ausgabe 7 | | 57 |
| Installation SST Interface Box | 997-580-003-1, Ausgabe 1 | | 2 |
| Installation RTU01 | 997-584-003-1, Ausgabe 1 | | 1 |
| Installation Module Kits M221-SI | 997-581-003-1, Ausgabe 1 | | 2 |
| NF 50: | | | |
| Parts List | 002-463-002, issue 10 | | |
| NF 50-S: | | | |
| Parts List | 002-461-002, issue 11 | | |



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| Type of document | Manufacturer's identification | Date | Number of Pages |
|----------------------------|-------------------------------|------|-----------------|
| Main Board: | | | |
| Parts List | 124-391-001, issue 1 | | |
| Circuit Diagram | C394-391, issue 1 | | |
| Layout | GA124-391, issue 1 | | |
| Power Supply PSU3A: | 020-648, issue 8 | | |
| Parts List | 124-394, issue 1 | | |
| Component Mounting Diagram | GA124-394, issue 1 | | |
| Circuit Diagram | C394-394, issue 1 | | |
| Constructional Drawing | PP236-701, issue 2 | | |
| Constructional Drawing | PP292-150, issue 2 | | |
| Drawing | PP684-364, issue 6 | | |
| Drawing | PP345-583, issue 1 | | |
| SST Interface Box: | | | |
| Parts List | 124-382-001, issue 1 | | |
| Circuit Diagram | C394-382-001, Issue 1 | | |
| Component Mounting Diagram | GA124-382-001, issue 2 | | |
| Front Foil | PP385-025-001, issue 1 | | |
| RTU01: | | | |
| Parts List | 124-373, issue 2 | | |
| Circuit Diagram | C394-373, issue 1 | | |
| Component Mounting Diagram | GA124-373, issue 1 | | |



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The approved component/system is described as follows:

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|--|-------------------------------|------|-----------------|
| Module Kit M221-SI: | | | |
| Parts List | 020-877, issue 1 | | |
| Label | PP345-593, issue 1 | | |
| Housing: | | | |
| Parts List Standard Housing Rear Wall | 004-121-009, issue 3 | | |
| Constructional Drawing Standard Housing Rear Wall | PP225-347-009, issue 12 | | |
| Overall Drawing Standard Housing Rear Wall | GA020-472-XXX, issue 8 | | |
| Parts List Extended Deep Housing Rear Wall | 004-123-009, issue 4 | | |
| Constructional Drawing Extended Deep Housing Rear Wall | PP225-350-XXX, issue 5 | | |
| Overall Drawing Extended Deep Housing Rear Wall | GA020-473-XXX, issue 8 | | |
| Parts List Housing Front | 004-126-009, issue 3 | | |
| Constructional Drawing Housing Front | PP236-665-XXX, issue 4 | | |
| Overall Drawing Housing Front | GA004-126-XXX, issue 3 | | |
| Parts List Housing Extended Front | 004-127-009, issue 3 | | |
| Constructional Drawing Housing Extended Front | PP236-670-XXX, issue 3 | | |



Enclosure 3

Sheet 1

To Certificate of Approval No.: G 202099

Date 07.05.2010

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

Control and indicating equipments type NF 50 and NF 50-S are supplied with power by power supply equipment type PSU3A. The power supply equipment is installed within the housing of the control and indicating equipment.

Maximum one loop can be connected at CIEs type NF 50 and NF 50-S.

VIEWTM detectors can be connected at CIEs type NF 50 and NF 50-S.

CIEs type NF 50 and NF 50-S are suitable to trigger one extinguishing zone. Triggering is realized via module M221-SI to be installed within the housing of the CIE. The additional indications are realized via the SST Interface Box to be fixed at the housing of the CIE.

All input/output interfaces of the CIE shall be operated via shielded cable.

The following options with requirements are available:

Indications:

Alarm counter, Sect. 7.13

Fault signals from points, Sect. 8.3

Controls:

Delays to outputs, Sect. 7.11

Co-incidence detection Type B, Sect. 7.12.2

Disablement of addressable points, Sect. 9.5

Test condition, Sect. 10

Outputs:

Output to fire alarm devices, Sect. 7.8

Output to fire alarm routing equipment, Sect. 7.9.1

Output to fire protection equipment Type A, Sect. 7.10.1

Output to fire protection equipment Type C, Sect. 7.10.3

Output to fault warning routing equipment, Sect. 8.9



Enclosure 3

Sheet 2

To Certificate of Approval No.: G 202099

Date 07.05.2010

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

Inputs:

Alarm confirmation input from fire alarm routing equipment, Sect. 7.9.2

Fault monitoring of fire protection equipment, Sect. 7.10.4

Technical data of power supply equipment type PSU3A:

| | |
|-------------------------------|---------------------|
| Line voltage: | 230 V |
| Output voltage normal: | (19.9 ... 28.5) VDC |
| Output voltage increased: | (26.0 ... 28.3) VDC |
| I_{\min} : | 0 mA |
| $I_{\max a}$: | 600 mA |
| $I_{\max b}$: | 3 A |
| $R_{i\max}$: | 150 m Ω |
| Ripple: | 300 mV |
| Connectable battery capacity: | 12 Ah - 38 Ah |