



Certificate

of Approval of Components and Systems

Holder of the Approval:

Detector Electronics Corp.
6901 West 110th Street
US- Minneapolis, MN 55438

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 202136	4	04.12.2008	03.12.2012

Subject matter of the Approval:

IR Flame Detector
Type X3301

Use:

in Automatic Fire Detection and Fire Alarm Systems

Basis for approval:

DIN EN 54, Part 10 (05/02) - Flame Detectors
VdS 2504 (12/96) - Smoke Detectors, Sect. 5.6
VdS 2344 (12/05) - Procedure Guidelines

Köln (Cologne), 15.12.2008

Schüngel

Managing Director

i.V. Lüttenberg

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 202136

Date 15.12.2008

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)
IR-Flame Detector	X3301		



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Date 15.12.2008

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
VdS Test Report No. BMA 02073 dated 12.12.2002 VdS Software Test Report No. SW-2002202 dated 29.08.2002			
X3301:			
User manual (German)	95-2527	09.2003	25
User manual (English)	95-8527	04.2007	29
User manual (with pulse output) (English)	95-8528	11.2007	30
Certificate of conformity (DEMKO)	01 ATEX 130204	31.08.2007	5
Technical drawings:			
O.S. # Matrix, X3301	007306-001 Rev. R	20.08.2008	1
Label : X3301	007197-XXX Rev. AB	18.12.2007	2
Drawing, Design Reference X3301 'FM' & 'CSA'	007264-001 Rev. Y	29.10.2008	8
Cover, Electronics Module	007189-XXX Rev. K	25.03.2008	1
Drawing, Design Reference X3301 'DEMKO'	007288-001 Rev. M	20.09.2007	1
Technical data:			
Filter, Infrared narrow band	004212-007 Rev. E	26.03.2007	2
Filter, Infrared narrow band	004212-008 Rev. E	26.03.2007	2
Filter, Infrared narrow band	004212-009 Rev. D	26.03.2007	2



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

The installation shall take into account, that the orientation arrow on the flame detector is directed upwards, as the view angle in this direction is $< 90^\circ$.

The IR-flame detector corresponds to class 1.

The test acc. DIN EN 54-10 Sect. 5.12 'Shock' was not applicable due to the weight of the flame detector incl. support.

Operating voltage range: (18 ... 32) V DC

For detector type X3301 with conformity certificate DEMKO No. 01 ATEX 130204 dated 31.08.2007, DEMKO confirms compliance of the electrical equipment with the harmonised European standards 'Electrical apparatus for gas explosive atmospheres' EN 60079-0:2006, EN 60079-1:2004, EN 60078-7:2003 and EN 50020:2002.

Marking: Ex d e m IIC T4
or Ex d e m IIC T3