



Certificate

of Approval of Components and Systems

Holder of the Approval:

SPECTREX INC.
Peckman Industrial Park, 218 Little Falls Road
US- Cedar Grove, New Jersey 07009

Approval No.:	No. of pages:	Valid from:	Valid to:
G 207121	4	28.09.2007	27.09.2011

Subject matter of the Approval:

IR Flame Detector
Type Sharpeye 20/20 SI

Use:

in Automatic Fire Detection Systems

Basis for approval:

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

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

Köln (Cologne), 18.10.2007

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 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 207121

Date 18.10.2007

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)
IR Flame Detector Available Versions: IR Flame Detector (Aluminium) (pressure resistant) IR Flame Detector (Stainless Steel) (pressure resistant) IR Flame Detector (Aluminium) (pressure resistant + intrinsically safe) IR Flame Detector (Stainless Steel) (pressure resistant + intrinsically safe)	Sharpeye 20/20 SI Sharpeye 20/20SI-C Sharpeye 20/20SI-C-ST Sharpeye 20/20SIE-C Sharpeye 20/20SIE-C-ST		



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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 07076, dated 29.08.2007			
VdS Software Test Report No. SW-2006216, dated 20.10.2006			
Sharpeye 20/20 SI:			
User and Maintenance Manual	784100 Rev. A	06.2002	54
IR/3 Detector Assembly (FM) Aluminium Housing	784002 Rev. A	08.05.2005	1
IR/3 Detector Assembly (FM) Stainless Steel Housing	784702 Rev. A	08.05.2005	1
IR/3 Detector Assembly (ATEX) Aluminium Housing	784502 Rev. B	08.05.2005	1
IR/3 Detector Assembly (ATEX) Stainless Steel Housing	784802 Rev. B	08.05.2005	1
Block and Wiring Diagram	784008 Rev. C	09.05.2005	1
P.C. Boards Assembly	784011 Rev. G	08.05.2005	1
IR/3 Sensors Circuit El. Scheme	784038 Rev. C	16.05.2005	1
IR/3 Sensors - P.C.B Assembly	784039 Rev. E	08.05.2005	1
IR/3 Sensors - P.C.B Assembly	784079 Rev. E	09.05.2005	1
CPU P.C. Board Assembly	889019 Rev. C	21.09.2005	1
CPU Electrical Scheme	889018 Rev. C	21.09.2005	1
I/O Board Electrical Scheme	780048 Rev. A	02.07.2003	1
I/O P.C.B Assembly	784049	27.04.2003	1
Eprom Label	E784011 Rev. D	21.09.2005	1



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

IR flame detector type 20/20 SI comprises three IR sensors with different wavelength ranges each.

The IR flame detector complies with the following response classes:

- Lowest sensitivity adjustment 10: response behaviour complies with class 2
- Sensitivity adjustments 20, 30 and 40: response behaviour complies with class 1

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

Current consumption (quiescent condition): max. 100mA

Current consumption (alarm): max. 150mA

Notified testing body Sira Certification Service certifies for IR flame detector type Sharpeye 20/20 SI versions '-C' and '-C-ST' with declaration of conformity Sira 00ATEX1163 dated 01 September 2006 compliance of the electrical apparatus with the harmonized European Standards 'Electrical Apparatuses for Hazardous Areas' EN 50014:1997 + Annex 1+2 and EN 50018:1994.

Marking: EEx d IIB+H2 T5

Notified testing body Sira Certification Service certifies for IR flame detector type Sharpeye 20/20 SIE versions '-C' and '-C-ST' with declaration of conformity Sira 00ATEX1164 dated 01 September 2006 compliance of the electrical apparatus with the harmonized European Standards 'Electrical Apparatuses for Hazardous Areas' EN 50014:1997 + Annex 1+2, EN 50018:1994 and EN 50019:1994..

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