

Certificate of Product Approval

Certificate Number: 1199d-(cl-1) Issue: 07

Carrier Fire & Security B.V.

Kelvinstraat 7
 NL-6003 DH
 Weert
 The Netherlands



is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Aspirating Smoke Detectors

- Stratos Micra 25
- Stratos Micra 100
- Stratos HSSD 2
- Stratos HSSD 2 + Command Module
- Stratos HSSD 2 Minimum Display Module
- Senator 25
- Senator 100
- Senator 200
- Senator 200 + Command Module
- Senator 200 Minimum Display
- 9-30783 Stratos ModuLaser
- FHSD8330 LaserSense ModuLaser
- 9-30783-KID Senator ModuLaser
- 9-30783-CHI

Standards

EN 54-20:2006

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Signed for BRE Global Ltd

P Halligan

Verifier

15 March 2023

Date of Issue

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Certified Product	Description	LPCB Ref.No.
Stratos Micra 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Senator 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Stratos Micra 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions.	1199d/02

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Certified Product	Description	LPCB Ref.No.
	b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	
Senator 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/02
Stratos HSSD 2	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/03
Senator 200	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes:	1199d/03

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	<ol style="list-style-type: none"> For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. The approval of the detector is conditional upon the following requirements: <ol style="list-style-type: none"> Design, installation and commissioning are performed in accordance with the system design manual and instructions. The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD. 	
Stratos HSSD 2 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde Airsense) Notes: <ol style="list-style-type: none"> For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. The approval of the detector is conditional upon the following requirements: <ol style="list-style-type: none"> Design, installation and commissioning are performed in accordance with the system design manual and instructions. The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD. 	1199d/04
Senator 200 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde) Notes: <ol style="list-style-type: none"> For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. The approval of the detector is conditional upon the following requirements: <ol style="list-style-type: none"> Design, installation and commissioning are performed in accordance with the system design manual and instructions. The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD. 	1199d/04

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Certified Product	Description	LPCB Ref.No.
Stratos HSSD 2 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
Senator 200 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
9-30783	Detector Module for Stratos Modulaser (Branded AirSense) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos Modulaser (Part No: 9-30430) Notes: 1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783) must be used in conjunction with at least one of the following ancillary equipment:	1199d/07

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Certified Product	Description	LPCB Ref.No.
	<ul style="list-style-type: none"> - Command Display Module, (Part No: 9-30782) - Standard Display Module, (Part No: 9-30781) - Minimum Display Module, (Part No: 9-30780) <p>2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p> <p>3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.</p> <p>4. The approval of the detector is conditional upon the following requirements:</p> <ul style="list-style-type: none"> - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-1003. 	
FHSD8330	<p>LaserSense ModuLaser, Detector Module (Branded Edwards)</p> <p>Incorporating the following ancillary equipment:</p> <ul style="list-style-type: none"> -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) <p>Notes:</p> <ol style="list-style-type: none"> 1. For compliance with EN 54-20:2006, the Detector Module (FHSD8330) must be used in conjunction with at least one of the following ancillary equipment: <ul style="list-style-type: none"> - LaserSense ModuLaser, Command Display Module, (Part No: FHSD8320) (Branded Edwards) - LaserSense ModuLaser, Standard Display Module, (Part No: FHSD8310) (Branded Edwards) - LaserSense ModuLaser, Minimum Display Module, (Part No: FHSD8300) (Branded Edwards) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays 	1199d/07

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	<p>shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p> <p>3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.</p> <p>4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-2003-08.</p>	
9-30783-KID	<p>Senator ModuLaser, Detector Module (Branded Kidde)</p> <p>Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430)</p> <p>Notes:</p> <p>1. For compliance with EN 54-20:2006, the Detector Module (9-30783-KID) must be used in conjunction with at least one of the following ancillary equipment: - Senator ModuLaser, Command Display Module, (Part No: 9-30782-KID) (Branded Kidde) - Senator ModuLaser, Standard Display Module, (Part No: 9-30781-KID) (Branded Kidde) - Senator ModuLaser, Minimum Display Module, (Part No: 9-30780-KID) (Branded Kidde)</p> <p>2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p>	1199d/07

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	<p>3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.</p> <p>4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-0003-08.</p>	
9-30783-CHI	<p>Detector Module for Stratos ModuLaser (Branded AirSense, Chinese Variant)</p> <p>Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430)</p> <p>Notes:</p> <p>1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783-CHI) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782-CHI) - Standard Display Module, (Part No: 9-30781-CHI) - Minimum Display Module, (Part No: 9-30780-CHI)</p> <p>2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p> <p>3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.</p> <p>4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-1003-11.</p>	1199d/07

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Ancillaries

Stratos HSSD 2 Stand Alone Command Module (Branded as Kidde Airsense)
Senator Command Module (Branded as Kidde)
FHSD8320 Command Display Module (Branded as Edwards)
FSD8310 Standard Display Module (Branded as Edwards)
FSD8300 Minimum Display Module (Branded as Edwards)
9-30782-KID Command Display Module (Branded as Kidde)
9-30781-KID Standard Display Module (Branded as Kidde)
9-30780-KID Minimum Display Module (Branded as Kidde)
9-30782-CHI Command Display Module (Chinese Variant)
9-30781-CHI Standard Display Module (Chinese Variant)
9-30780-CHI Minimum Display Module (Chinese Variant)

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The logo for BRE Global, consisting of the lowercase letters 'bre' in a bold, sans-serif font.