

Certificate of Product Approval

Certificate Number: 531v-(cl-1)

Issue: 03

Siemens Switzerland Ltd

Theilerstrasse 1a
CH-6300 Zug
Switzerland



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

Alarm Warning Devices

FDS226-RR, FDS226-WR
FDS226-RW, FDS226-WW
FDS227-RR, FDS227-WR
FDS227-RR-C, FDS227-WR-C
FDS227-RW, FDS227-WW
FDS227-RW-C, FDS227-WW-C
FDSB226-WW, FDSB226-WR
FDSB227-WW, FDSB227-WR
FDSB227-WW-C, FDSB227-WR-C

(refer to Appendix for details)

Standards

EN 54-3:2014 + A1:2019
EN 54-17:2005
EN 54-23:2010

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22 December 2022

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Certified Product	Description	LPCB Ref.No.
FDS226-RR	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) - W-2.4-7.5 (Medium Beacon Intensity) - O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	531v/01
FDS226-WR	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period	531v/01

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Certified Product	Description	LPCB Ref.No.
	4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
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Certified Product	Description	LPCB Ref.No.
	11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
FDS226-WW	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity)	531v/02

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Certified Product	Description	LPCB Ref.No.
	O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
FDS227-RR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity)	531v/03

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Certified Product	Description	LPCB Ref.No.
	O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
FDS227-WR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) - W-2.4-7.5 (Medium Beacon Intensity)	531v/03

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Certified Product	Description	LPCB Ref.No.
	O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
FDS227-RR-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs* (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) - W-2.4-7.5 (Medium Beacon Intensity)	531v/03

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Certified Product	Description	LPCB Ref.No.
	O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	
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Certified Product	Description	LPCB Ref.No.
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Certified Product	Description	LPCB Ref.No.
	2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) - W-2.4-7.5 (Medium Beacon Intensity) - O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	
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Appendix to Certificate No: 531v-(cl-1)

Issue: 03

Siemens Switzerland Ltd

Certified Product	Description	LPCB Ref.No.
	Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) - W-2.4-7.5 (Medium Beacon Intensity) - O-2-6.2 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	
FDSB226-WW	Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity)	531v/05

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Siemens Switzerland Ltd

Certified Product	Description	LPCB Ref.No.
	C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB226-WR	Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V	531v/06

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Issue: 03

Siemens Switzerland Ltd

Certified Product	Description	LPCB Ref.No.
	3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WW	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) - C-3-12 (Medium Beacon Intensity) - O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz	531v/07

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Siemens Switzerland Ltd

Certified Product	Description	LPCB Ref.No.
	- Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WW-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) - C-3-12 (Medium Beacon Intensity)	531v/07

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Siemens Switzerland Ltd

Certified Product	Description	LPCB Ref.No.
	O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	
FDSB227-WR	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de)	531v/08

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Certified Product	Description	LPCB Ref.No.
	2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) - C-3-10 (Medium Beacon Intensity) - O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WR-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en)	531v/08

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Certified Product	Description	LPCB Ref.No.
	Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) - C-3-10 (Medium Beacon Intensity) - O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	

Bases

FDB226-R / FDB226-W	Base (IP33C)
FDB227-R / FDB227-W	Deep base (IP33C)
FDB228	Flat Base
FDB229	Deep Base
FDBZ298	Blanking Plate
FDBZ221	Ring Attachment (for use with Sinteso range of detectors)

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