

Certificate of Product Approval

Certificate Number: 531p-(cl-1)

Issue: 05

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

FDS224-R

FDS224-W

FDS225-R

FDS225-W

(refer to Appendix for details)

Standards

EN 54-3:2014 + A1:2019

EN 54-17:2005

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for BRE Global Ltd

Z Major

Verifier

22 December 2022

Date of Issue

23 December 2013

Date of First Issue



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BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

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Appendix to Certificate No: 531p-(cl-1)

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Certified Product	Description	LPCB Ref.No.
FDS224-R	<p>Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 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. Operating voltage range 12-33V 	531p/04
FDS224-W	<p>Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 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 	531p/04

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	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. Operating voltage range 12-33V	
FDS225-R	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (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. Operating voltage range 12-33V	531p/05
FDS225-W	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (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	531p/05

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	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. Operating voltage range 12-33V	

Bases

FDB226-R / FDB226-W Base (IP33C)
 FDB227-R / FDB227-W Deep base (IP33C)

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