

## BRE Global Ireland

**Notified Body No. 2831**  
BRE Global Assurance (Ireland) Limited  
DCU Alpha, Old Finglas Road  
Glasnevin, Dublin, D11 KXN4  
Ireland  
T: +353 (0) 18824344  
E: [enquiries@breglobalireland.ie](mailto:enquiries@breglobalireland.ie)  
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## Certificate of constancy of performance

### 2831-CPR-F1953

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9th March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s)

**BSO-xx-Iyy Analogue Addressable Type A Integrated Base Sounder with Short Circuit Isolator**  
(For full product details and conditions of use refer to appendix)

Placed on the market under the name or trade mark of:

**Life Safety Distribution GmbH,  
System Sensor Europe  
Javastrasse 2  
CH-8604  
Hegnau  
Switzerland**

and produced in the manufacturing plant(s):

**KAC Alarm Company Limited  
Thornhill Road  
North Moons Moat  
Redditch  
Worcestershire B98 9ND  
United Kingdom**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

**EN 54-3:2001 + A1:2002 + A2:2006 – Sounders  
EN 54-17:2005 - Short circuit isolators**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure

### **the constancy of performance of the construction product.**

This certificate was first issued on 16 October 2019 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



P Halligan, Certification Engineer

On behalf of BRE Global Assurance (Ireland) Limited

Date of First Issue: 16 October 2019

Date of Issue: 16 October 2019

Issue number 01

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**APPENDIX to Certificate of constancy of performance: 2831-CPR-F1953****BSO-xx-lyy Analogue Addressable Type A Integrated Base Sounder with Short Circuit Isolator****Bases / Ancillaries:**

B501AP-cc Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White  
Bcc Deep base IP44, cc indicates colour, PR=Red, DD=Detector White, PW=Pure White  
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

**Notes:**

1. xx indicates body colour, PP=Pure White, DD=Detector White
2. yy indicates customer and associated communication protocol.  
01 indicates Advanced Protocol (and Honeywell 500 series protocol)  
00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:
  - 1) 554/440, 2Hz (100ms/400ms);
  - 2) 800/970, 1Hz;
  - 3) 800/970, 2Hz;
  - 4) 2400/2900, 3Hz;
  - 5) 2500/3100, 2Hz;
  - 6) 988/645, 2Hz;
  - 7) 660Hz;
  - 8) 970Hz;
  - 9) 1200Hz;
  - 10) 2850Hz;
  - 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
  - 12) 420Hz, 0.625 sec on, 0.625 sec off;
  - 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
  - 14) 660, 3.33Hz, 150ms on, 150ms off;
  - 15) 970, 0.8Hz 0.25s on, 1s off;
  - 16) 970, 0.5Hz 1s on, 1s off;
  - 17) 2850, 1Hz;
  - 18) 970, 1Hz 500ms on, 500ms off;
  - 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
  - 20) 800Hz;
  - 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
  - 22) 1200-500Hz, 0.99Hz 1s on, 0.01s off;
  - 23) 2400-2850, 7Hz;



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- 24) 500-1200Hz, (0.5s off, 3.5s on);
- 25) 800-970, 50Hz;
- 26) 800-970, 7Hz;
- 27) 800-970, 1Hz;
- 28) 2400-2850, 50Hz;
- 29) 500-1000, 7Hz;
- 30) 500-1200-500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800-1000, 2Hz;
- 32) 2400-2850, 1Hz



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