

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification-UK, approved body No. 8504.

In compliance with UK STATUTORY INSTRUMENT 2020 No. 1359 Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, this certificate applies to the construction product

HFW-SIM-01+HFC-SBR-23-03

The product fulfils the essential characteristic:

See Annex 1

Intended use:

Applications related to automatic fire alarm systems

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

**Hyfire Wireless Fire Solutions Ltd
Unit B12a Holly Farm Business Park
Honiley, Warwickshire, CV81NP
United Kingdom**

and produced in the manufacturing plant:

UKCPA10005

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

EN 54-3:2001+A1:2002+A2:2006 : **Fire detection and fire alarm systems — Part 3: Fire alarm devices — Sounders**
EN 54-23:2010 : **Fire detection and fire alarm systems — Part 23: Fire alarm devices — Visual alarm devices**
EN 54-25:2008 : **Fire detection and fire alarm systems — Part 25: Components using radio links**

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 2022-08-10 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: **2022-08-10**.



Merete Poulsen
Responsible for evaluation



Steen Nilsson
Responsible for certification decision

Annex 1

EXTENT

Product description:

HFW-SIM-01+HFC-SBR-23-03 Visual and Sounder Fire Alarm Device using Radio Links

General characteristics:

Destination of use: Type B (for external)
 Degrees of protection: IP33C

EN 54-3 Certified tones:

- Tone 1: Warble Tone. 800 Hz for 500ms then 1000Hz for 500 ms
- Tone 2: Continuous Tone. 970 Hz continuous tone
- Tone 3: Slow Whoop (Dutch). 500-1200Hz for 3500 ms, then off for 500 ms
- Tone 4: German DIN tone. 1200-500 Hz swept every 1000 ms (1Hz)

Technical characteristic wireless base:

- Main board Pcb n. B40-ISWSM-0002
- Battery 2 x CR123A Lithium 3 V 1.25Ah
- Hardware Identifications: ST, STM32L051R8
- Firmware Identifications: 1.4
- CRC-32 Identifications: 629839F6 (hex)

Technical characteristic Visual and Sounder alarm device:

- Main board Pcb n. B20-CWS1X-1002
- Coverage characteristics W-2.5-7
- Flash rate 0.5 Hz
- White Led
- Clear Lens

List of optional functions with requirements

4.3.7 Synchronization

Performance

| Essential characteristics | Clauses in EN 54-3:2001+A1:2002+A2:2006 | Performance |
|--|---|-------------|
| Performance under fire conditions | 4.2, 4.3, 5.2, 5.3 | Pass |
| Operational reliability | 4.4, 4.5, 4.6, 5.4 | Pass |
| Durability of operational reliability and response delay; temperature resistance | 5.5, 5.6, 5.7, 5.8, 5.9 | Pass |
| Durability of operational reliability; humidity resistance | 5.8, 5.9, 5.10 | Pass |
| Durability of operational reliability; corrosion resistance | 5.11 | Pass |
| Durability of operational reliability; vibration resistance | 5.12 to 5.15 | Pass |
| Durability of operational reliability; electrical stability | 5.16 | Pass |
| Durability of operational reliability; resistance to ingress | 5.17 | Pass |

5.6 and 5.10 applies only to outdoor sounders or outdoor voice sounders.

5.16 applies only to sounders or voice sounders with active electronic components

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No. 23333

| Essential characteristics | Clauses in EN 54-23:2010 | Level(s) or class(es) | Notes |
|---|--|-----------------------|--|
| Operational reliability: Duration of operation Flammability of materials Enclosure protection Access Manufacturer's adjustments Requirements for software controlled devices | 4.2.1 4.2.3 4.2.4 4.2.5 4.2.6 4.2.8 | None | Pass Pass Pass Pass Pass Pass |
| Performance parameters under fire condition: Coverage volume Variation of light output Minimum and maximum light intensity Light colour Light temporal pattern and frequency of flashing Marking and data Synchronization (option with requirements) | 4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 | | Pass Pass Pass White Pass / 0.5Hz Pass Pass |
| Durability: Temperature resistance: Dry heat (operational) Dry heat (endurance) Cold (operational) Humidity resistance: Damp heat, cyclic (operational) Damp heat, steady state (endurance) Damp heat, cyclic (endurance) Shock and vibration resistance: Shock (operational) Impact (operational) Vibration (operational) Vibration (endurance) Corrosion resistance: SO2 corrosion (endurance) Electrical stability: EMC, immunity (operational) | 4.4.1.1 4.4.1.2 4.4.1.3 4.4.2.1 4.4.2.2 4.4.2.3 4.4.3.1 4.4.3.2 4.4.3.3 4.4.3.4 4.4.4 4.4.5 | | Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass |
| Essential characteristics | Clauses in EN 54-25:2008 | | Performance |
| Performance parameters under fire conditions | 4.1, 4.2.2, 5.2, 8.3.7 | | Pass |
| Response delay (response time to fire) | 8.2.3, 8.2.6 | | Pass |
| Operational reliability | 4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6 | | Pass |
| Durability of operational reliability and response delay; temperature resistance | 8.3.9, 8.3.10, 8.3.11 | | Pass |
| Durability of operational reliability; vibration resistance | 8.3.16, 8.3.17 to 8.3.19 | | Pass |
| Durability of operational reliability; humidity resistance | 8.3.12, 8.3.14 | | Pass |
| Durability of operational reliability; corrosion resistance | 8.3.15 | | Pass |
| Durability of operational reliability; electrical stability | 8.3.20 | | Pass |

Annex 2
TEST DOCUMENTATION

Test documentation can be found in case no. UKCSP10094-001.

TECHNICAL BASIS

| File Number | Title | Date |
|-------------------------------|--|--------------------|
| BOM-SGWSM-0002 (SGWS-MOD) | Sagittarius Wall Sounder Module (SGWS-MOD) 868, 865 & 434 MHz Variants - Bill of Material | 2021-10-08, Rev. O |
| BOM-CWS1X-1002 (CWS100-AV) | CONVENTIONAL WALL SOUNDER BEACON (CWS100-AV) & WHITE VERSION CWS100-AV(W) - Bill of Material | 2022-03-25, Rev. Q |

