



# CERTIFICATE OF CONSTANCY OF PERFORMANCE

## 0051-CPR-2597

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

Product: **SOUNDER AND VISUAL ALARM DEVICE USING RADIO LINKS**  
Model: **TAU-BSB-23R-01 ; TAU-BSB-23W-01; TAU-BSB-23W-01-BL**  
Trademark: **HYFIRE**  
Other information: **see ANNEX**

Produced by:  
**HYFIRE WIRELESS FIRE SOLUTIONS LTD**  
Unit B12a, Holly Farm Business Park, Honiley Warwickshire CV8 1NP (UK)

In the manufacturing plant:  
**PI.Q0009R**

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

**EN 54-3:2001 + A1:2002 + A2:2006**  
**EN 54-23:2010**  
**EN 54-25:2008 + AC:2012**

Under system **1** are applied and that **the product fulfills all the prescribed requirements set out above**

ISSUED ON 11/07/2022

REVISION 1

B.U. PRODUCT CONFORMITY ASSESSMENT  
CPR TECHNICAL DIRECTOR

This certificate cancels and replaces the certificate having the same number and issued on 2021-11-11 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the products, and the manufacturing conditions in the plant are not modified significantly.

This Certificate was issued by IMQ S.p.A., a Notified Body according to Regulation (EU) No. 305/2011. IMQ S.p.A. Identification Number is: **0051**. This certificate is subjected to the Regulation of Assessment and Verification of Constancy of Performance of the Construction Products as Notified Body, according to Regulation (EU) no. 305/2011 and Legislative Decree n.106/ 2017 (REG. ON / CPR)

# ANNEX

## 0051 – CPR – 2597

### TAU-BSB-23R-01

#### Configuration

The sounder and visual alarm device consists of a plastic enclosure (dimensions: 129 (d) x 55 (h) mm) with IP21C degree of protection, containing:

- No. 1 Main board (PCB code B40-TWBSX-0002);
- No. 1 Piezoelectric buzzer (trademark Kingstate, model KBIG5010N08028AZ);
- No. 3 Red LED (trademark CREE, model XPEBRD-L1-0000-00901);
- No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah).

#### Technical Characteristics

Tone patterns in compliance with EN 54-3:

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

Coverage characteristics:

- C3-10 (high power);
- O1.7-6.0 (low power);
- Flash rate: 0.5 Hz;
- Destination for use: Type A (for internal);
- Operating frequency band: 868 MHz ; 916 MHz;
- Hardware identification of the microcontroller (U4 and U5):
  - Texas Instruments, MSP430G2433 (U4);
  - STMicroelectronics, STM32L051K86 (U5);
- Firmware identification of the microcontroller (U4 and U5): 1.0.5 (U4) and 1.0.2 (U5).

#### List of optional functions with requirements (EN 54-23)

##### 4.3.7 Synchronization

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## TAU-BSB-23W-01, TAU-BSB-23W-01-BL (Black version)

### Configuration

The sounder and visual alarm device consists of a plastic enclosure (dimensions: 129 (d) x 55 (h) mm) with IP21C degree of protection, containing:

- No. 1 Main board (PCB code B40-TWBSX-0002);
- No. 1 Piezoelectric buzzer (trademark Kingstate, model KBIG5010N08028AZ);
- No. 3 White LED (trademark CREE, model XTEAWT-00-0000-00000BKE3);
- No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah).

### Technical Characteristics

Tone patterns in compliance with EN 54-3:

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

Coverage characteristics:

- C3-15 (high power);
- C3-10 (low power);
- O4.6-15 (high power);
- Flash rate: 0.5 Hz;
- Destination for use: Type A (for indoor);
- Operating frequency band: 868 MHz ; 916 MHz;
- Hardware identification of the microcontroller (U4 and U5):
  - Texas Instruments, MSP430G2433 (U4);
  - STMicroelectronics, STM32L051K86 (U5);
- Firmware identification of the microcontroller (U4 and U5): 1.0.5 (U4) and 1.0.2 (U5).

### List of optional functions with requirements (EN 54-23)

#### 4.3.7 Synchronization

This Certificate was issued by IMQ S.p.A., a Notified Body according to Regulation (EU) No. 305/2011. IMQ S.p.A. Identification Number is: **0051**. This certificate is subjected to the Regulation of Assessment and Verification of Constancy of Performance of the Construction Products as Notified Body, according to Regulation (EU) no. 305/2011 and Legislative Decree n.106/ 2017 (REG. ON / CPR)