

# WL-BELL Intelligent Speaker



## General

Westerstrand WL-BELL is a part of Westerstrand Wireless Clock System for flexible installations. WL-BELL is a fully automatic sound generator with built in audio player, amplifier, and loudspeaker. The device has built in microcontroller and UHF receiver. It is fed from mains using an external ad/dc power supply (wall adapter).

WL-BELL can be used in schools for class change, in industries for break signalling or for sending out general messages or melodies. The unit is delivered with a SD memory card containing 16 pre-programmed sounds including bells, ringtones, and melodies. The customer can easily add or replace the sounds on the card.

WL-BELL is controlled from a Master Clock in the QWTIMEIII product range. It is possible to create up to 8 zones with different break times and/or other messages. Start time, zone and melody number is programmed in the Master Clock and is sent wireless to the unit prior to the play. Alternatively, if the wireless feature is not supported by the Master Clock, the device can be connected via wire.

WL-BELL has four work modes

1. Wireless communication. Start time, zone and melody number are sent wireless from the main clock. Volume and zone are set via the +/- buttons
2. Wired communication. Start time, zone and melody number are sent by wire (RS485) from the main clock. Volume and zone are set via the +/- buttons
3. Wired, closing contact. Play melody when a closed contact is detected. Melody and volume are selected with the buttons.
4. Wired, play instantly when powered on. Play melody immediately when the power is turned on. Melody and volume are selected with the buttons.

The work mode used is determined by a 4-pin DIP switch accessible from the outside of the unit. In wired use, the unit may have a continuous power supply via an AC adapter or only receive power, from the main clock, when it is time to play a melody. To facilitate configuration WL-BELL has 3 buttons and four LEDs that are used to set volume, zone, select melody (wired) and pre-listen a melody.

## Technical data

Article number: 123392-00

### MP3 player

Number of selectable melodies: 16  
Volume setting: 31 levels  
Number of selectable zones: 8  
Memory card: SDHC micro 8GB (included)

### UHF-receiver

Frequency: 869.525 MHz  
Sensitivity: 1 $\mu$ V (-107 dBm)  
Modulation: FSK +/- 25 kHz

### Speaker

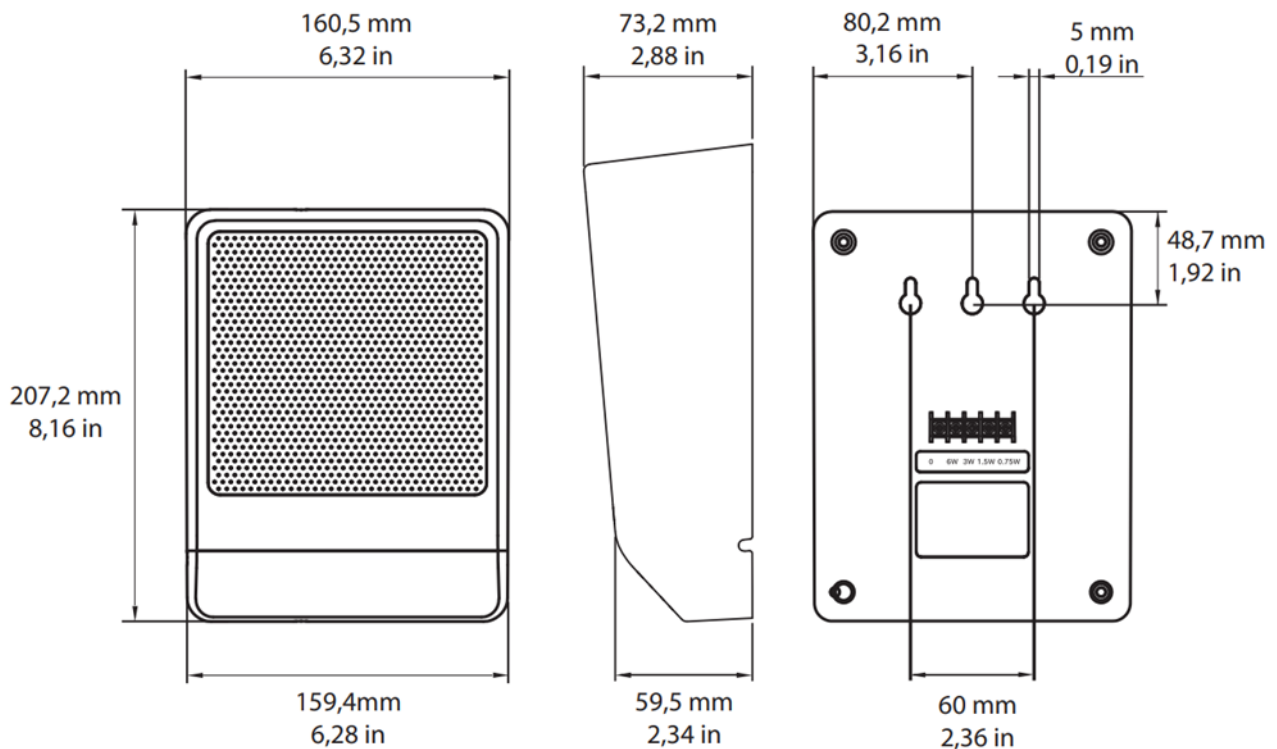
Rated power: 6 W  
Sound pressure level at 6 W / 1 W (1 m): 99 dB / 91 dB (SPL)  
Effective frequency range: 145 Hz to 18kHz (-10 dB)  
Opening angle 1 kHz / 4 kHz (-6 dB)  
Horizontal: 165° / 88°  
Vertical: 165° / 88°

### Power supply:

Alternative 1: 12VDC from external ad/dc power supply (wall adapter)  
Alternative 2: External 12-35V DC

### Mechanical

Mechanical Dimensions: (H x W x D) 207 x 160 x 73. mm  
Weight: 0.7kg  
Color: White (RAL 9003)  
Connector: 5-pole screw terminal block  
Ambient temperature: Between 0°C and +40°C.



WESTERSTRAND URFABRIK AB Sweden

P.O box 133, SE-545 23 TÖREBODA  
E-mail: info@westerstrand.se

Tel +46 506 480 00 Fax +46 506 480 51  
Internet: www.westerstrand.se