

# JBE-2235

## Addressable Sounder – Beacon (VID)



### Key Features

- Powered from the loop (2 wires)
- Low power consumption
- Sound and volume configurable
- Visual indicator (on or off)
- Programmable soft address by means of JBE-AT1 tool
- EN 54-3 certificate

JBE-2235 is an addressable EN54-3 sounder with visual indicator designed to operate in a loop of intelligent fire detection and alarm devices with the JBE loop protocol. The visual indicator activates at the same time as the sounder. This visual indication is ancillary and not intended to meet the requirements of EN 54-23 beacons. The sounder device receives activation commands from the JBE fire panel and generates its sound output accordingly. The sounder only needs to be connected to the JBE communication loop. This sounder is compatible with the standard base JBE-2160 and JBE-2165.

### Minimum sound pressure level

dB(A) @ 1m	Horizontal Plane					
	15°	45°	75°	105°	135°	165°
	> 91	> 91	> 91	> 91	> 91	> 91
dB(A) @ 1m	Vertical Plane					
	15°	45°	75°	105°	135°	165°
	> 91	> 91	> 91	> 91	> 91	> 91

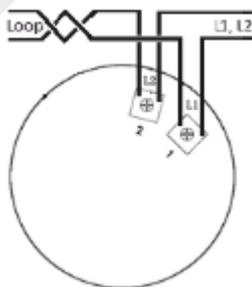
### TECHNICAL DATA

Category	EN 54-3 Type A sounder (Indoor)
Working voltage	DC 19 – 28,5 V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair without shield, wiring 0.5 - 2.5 mm <sup>2</sup>
Current JBE comm loop	I <sub>max</sub> <=10 mA @27V; I <sub>average</sub> <=6.6 mA @27V; <= 0.18 W @27V
Sound pressure level	100 dBA @1 m; 2.2-3.8kHz Swept Tone (0.5 Hz)
Working temperatures	-10 to +55°C
Storage temperature	-20 to +60°C
Environment	≤ 95% RH (40±2°C) (no condensation nor icing)
Addressing method	Soft addressing with tool JBE-AT1, non-volatile
Address range	1-200
Dimensions	Ø100 × 52mm
Weight	0.1 kg (including base)
IP rating	IP31
Compatible bases / Accessories	JBE-2160, JBE-2165 JBE-2161

## Installation

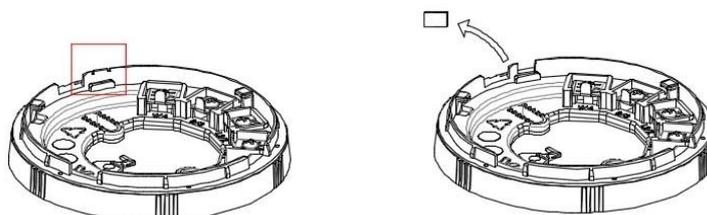
Always observe local fire and electric installation regulations.

1. Secure base to the wall or ceiling (surface mounted).
2. Connect the field wires as per below:

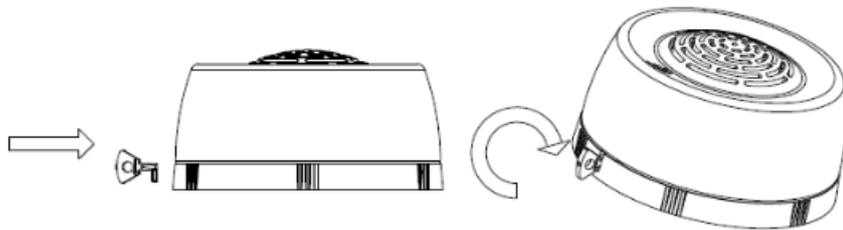


Terminals	Connection
1 & 2	Signal Loop L1, L2 (no polarity)

3. Program an unused loop address (1 to 200) to the sounder using the JBE-AT1 tool.
4. Mount the sounder onto its base and turn it clockwise to secure.
5. Register the sounder into the fire panel's configuration.
6. Test each sounder and wiring integrity after installation and periodically according to local fire regulation.
7. The mechanism for locking the sounder head to the base can be activated by removing the pre-cut plastic tab next to the keyhole using a knife, scissors, or a similar tool. The tab to be removed is marked in the following figure:



- 8. To detach a locked sounder, insert the key included with the base into the base's keyhole and turn it 180° clockwise. Then, rotate the sounder head counterclockwise to release it from the base.



- 9. Maximum quantity of sounders in a 200 mA Loop wired with 1.5 mm<sup>2</sup> cable:

30 Sounders in 1 km

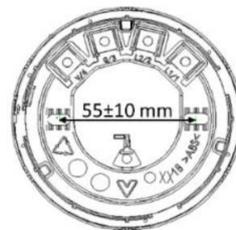
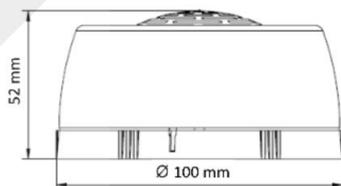
19 Sounders in 2 km

### Maintenance

Alarm test should be conducted regularly, recommending every 6 months.

### Dimensions

Mechanical dimensions:



All dimensions in mm