

Overview

JBE-2235 is an addressable EN 54-3 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 needs to be connected the JBE communication bus.

This sounder is compatible with the standard base JBE-2160 and JBE-2165.

Technical data

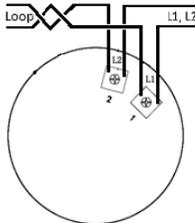
Category	EN 54-3 Type A sounder (Indoor)
Working voltage	DC 19 - 28,5 V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair, max. wiring gauge 2.5 mm ²
Current JBE comm loop	I _{max} ≤ 10 mA @27V; I _{average} ≤ 6.6 mA @27V; ≤ 0.18 W @27V
Sound pressure level	100 dBA @1 m; 2.2-3.8 kHz Swept Tone (0.5 Hz)
Working temp.	-10°C ~ +55°C
Storage temp.	-20°C ~ +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 × 52 mm
Weight	0.1 kg (including base)
IP rating	IP31
Compatible bases / Accessories	JBE-2160, JBE-2165 JBE-2161

Minimum sound pressure level

dB(A) @ 1m	Horizontal Plane					
	15°	45°	75°	105°	135°	165°
	> 91	> 94	> 97	> 97	> 94	> 90
dB(A) @ 1m	Vertical Plane					
	15°	45°	75°	105°	135°	165°
	> 91	> 94	> 96	> 97	> 94	> 91

Installation

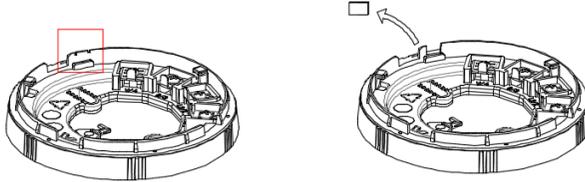
1. Secure the base to the wall or ceiling (surface mounted).
2. Connect the field wires as per below:



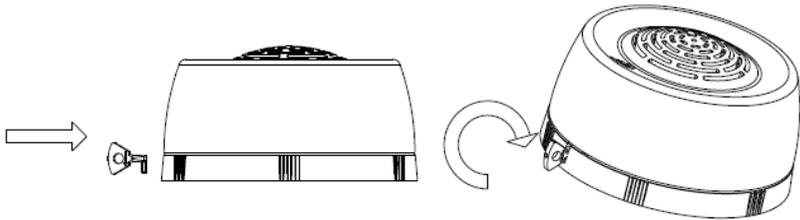
Terminals	Connection
1 & 2	Signal loop L1, L2 (no polarity)

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.

- 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:



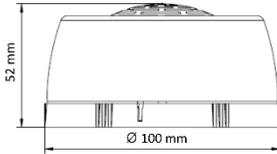
- To detach a locked sounder, insert the key included with the base into base's keyhole and turn it 180° clockwise. Then, rotate the sounder head counterclockwise to release it from the base.



Maintenance

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

Mechanical dimensions



all dimensions in mm

Regulatory information



0370

Jade Bird Fire Alarm International (Europe), S.L.
C. Tarragona, 157. 08014 Barcelona (Spain)

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DoP-0370-CPR-5933-1

EN 54-3:2014+A1:2019

EN 54-3:2001+A1:2002+A2:2006

JBE-2235

Sounder, intended for use in fire detection and fire alarm systems installed in and around buildings.

Type A sounder: intended for indoor applications.

Technical file: see TF-JBE-2235-10 provided by the manufacturer.

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