

JBE-2145

Addressable Sounder – Beacon (VID)



Key Features

- ▶ Low Profile design
- ▶ High sound pressure level output >100dB(A)
- ▶ Requires additional supplyline for 24 VDC
- ▶ Programmable soft address by means of JBE-AT1 tool
- ▶ EN 54-3 certificate

JBE-2145 is an addressable EN 54-3 sounder with visual indicator (VID) designed to operate in a loop of intelligent fire detection and alarm devices with the Jade Bird Europe 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 fire panel and generates its sound output accordingly.

The sounder needs to be connected to both the JBE communication bus and to the 24 V power bus. Its fault detection feature notifies the control panel when the 24V field bus is disconnected.

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

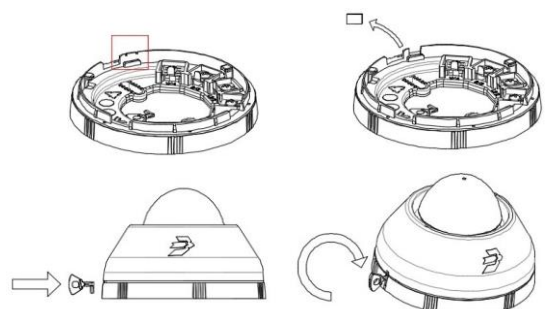
Minimum sound pressure level

dB(A) @ 1m	Horizontal Plane					
	15°	45°	75°	105°	135°	165°
	> 93	> 90	> 97	> 97	> 91	> 94
dB(A) @ 1m	Vertical Plane					
	15°	45°	75°	105°	135°	165°
	> 94	> 90	> 97	> 98	> 90	> 94

Lock / Unlock

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 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.



TECHNICAL DATA

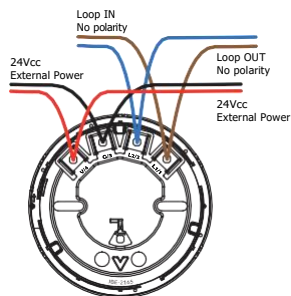
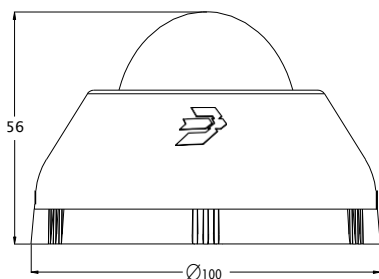
Category	EN 54-3 Type A sounder (Indoor)
Working voltage	16-30 VDC (JBE protocol pulse amplitude) 18.5-28.5 VDC (24 VDC power bus)
Connection	2-wire JBE communication bus, no polarity 2-wire 24V DC power bus, no polarity
2-wire 24 V DC power bus	≤0.3 mA @24 V
Wiring	Twisted pair, max. wiring gauge 2.5 mm ² (0.5 to 2.5 mm ²)
Current JBE comm loop	≤ 0.25 mA @24 V
Current 24V DC bus	≤ 50 mA @24 V; ≤ 1.2 W @24 V (When active)
Sound pressure level	100 dB(A) @1 m; 1-2 kHz Swept Tone (0.25 Hz)
Working temperature	-10 to +55°C
Storage temperature	-20 to +60°C
Environment humidity	≤ 95% RH (no condensation nor icing)
Addressing method	Addressing tool JBE-AT1
Address range	1-200
Dimensions (ØxH)	100 mm × 67 mm
Weight	0.1 kg (including base)
IP rating	IP31
Standards	EN 54-3:2001 EN 54-3:2001/A1:2002 EN 54-3:2001/A2:2006
Declaration of Perf.	DoP-0370-CPR-3812-1

Installation

Always observe local fire and electric installation regulations.

1. Secure a base JBE-2165 to the wall or ceiling (surface mounted)
2. Connect the field wires as per below
3. Program an unused loop address (1 to 200) to the sounder using the JBE-AT1 tool
4. Insert the sounder into its base and rotate it clockwise
5. Register the sounder into the fire panel's configuration
6. Test activation after the installation

Mechanical dimensions (all dimensions in mm) and connection diagram



Terminals	Connection
1 & 2	Signal Loop L1, L2 (no polarity)
3	24 VDC power line: (G) Negative
4	24 VDC power line: (V) Positive

