Overview

JBE-2100 is an addressable manual call point (MCP) designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loop protocol. This MCP sends fire alarm signals to the fire panel when the resettable element is pressed as defined in the European norm EN 54-11.

After activation, the MCP will remain in alarm until it is reset with the supplied reset key. There is no glass break element in this device, so the reset operation is done without the need to replace any element.

The JBE-2100 also features a pair of normally open clean contacts, which close at activation. These can be optionally used for a local action or to provide an activation signal to third party systems.

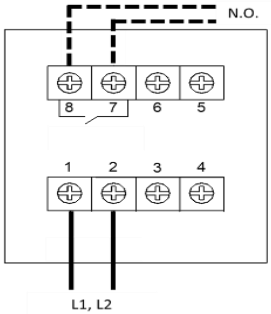
Technical data

Category	EN 54-11 type A indoor MCP
Working voltage	DC 19 - 28V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wire size	Twisted pair, max. wiring gauge 2.5 mm^2
Quiescent current	≤0.3 mA @24 V
Alarm current	≤1.0 mA @24 V
Clean contact rating	0.1 A @30 V DC
Working temp.	-10℃ ~ +55℃
Storage temp.	-20℃ ~ +60℃
Environment	≤ 95% RH (40±2℃) (no condensation nor icing)
Addressing method	Soft addressing with tool JBE-AT1, non-volatile
Address range	1-200
Red LED Indication	Standby: Flashing when polled Alarm: Steady on when in alarm
Dimensions	90×90×52 mm (LxWxH)
Weight	0.16 kg
IP rating	IP40
Compatible base	JBE-2170

Installation

Always observe local fire and electric installation regulations.

1. Secure the base to the wall (surface or flush mounted).
2. Connect the wiring to the base as per the following diagram:



Terminals	Connection
1 & 2	Signal loop L1, L2 (no polarity)
7 & 8	(Optional) Normally open clean contact switch Max rating: 0.1 A, 30 V
3,4,5,6	Not connected

3. Program an unused loop address (1 to 200) to the MCP head using the JBE-AT1 tool.
4. Insert the MCP face into its base and push firmly.
5. The head can be secured to the base by fitting an optional self-tapping screw (ST2.9x8) into its boss next to the reset keyhole.
6. Register the MCP into the fire panel's configuration.
7. Test each MCP and wiring integrity after installation and periodically according to local fire regulation.

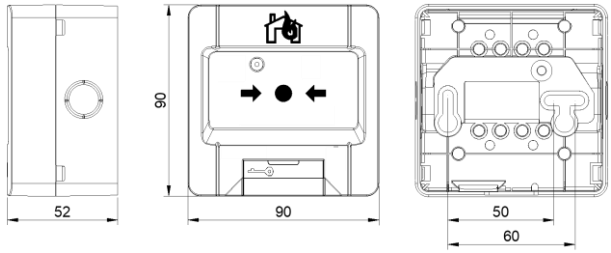
Maintenance

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

Resetting an activated MCP

1. Open the tab in the bottom of the MCP face.
2. Insert the reset key.
3. Rotate key counterclockwise until the frangible element returns to its position.

Mechanical dimensions



all dimensions in mm

Regulatory information

CE **0370**
Jade Bird Fire Alarm International (Europe), S.L. C. Tarragona, 157. 08014 Barcelona (Spain) **20** DoP-0370-CPR-3803-1
EN 54-11 JBE-2100 *Manual call point (type A indoor MCP), intended for use in fire detection and fire alarm systems installed in and around buildings.* Technical file: see TF-JBE-2100-10 provided by the manufacturer.

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