

## Overview

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JBE-2107 is a conventional heat detector designed to operate on a zone line of conventional intelligent fire detection and alarm devices. This heat detector sends fire alarm signals to the fire panel when the air temperature (or its rate of rise) reaches the alarm thresholds defined in the European norm EN 54-5.

The detector features three (3) sensitivity profiles: A2R, A2 and A2S. The JBE-AT1 Programmer allows selecting which threshold to apply to the detector.

Heat detectors are often used to detect fire in places where steam or dust can be present or where non-smoke fires might occur.

## Sensitivity levels

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The detector will always report alarm to the fire panel according with the pre-configuration selected. Select the configuration or the profile(s) most appropriate for your application.

Profile 1 (Highest sensitivity)	EN 54-5 category A2R (Rate of rise)
Profile 2 (Medium sensitivity)	EN 54-5 category A2
Profile 3 (Lowest sensitivity)	EN 54-5 category A2S (Static)

The three profiles are compliant to EN 54-5 requirements.

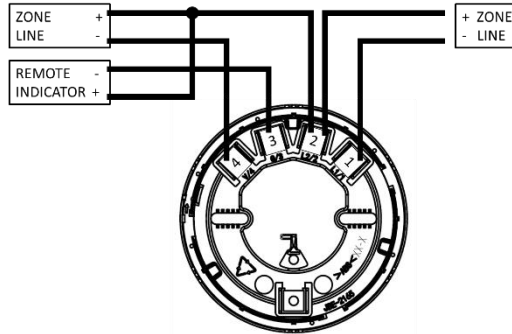
**Technical data**

Category	EN 54-5 heat detector with selectable categories A2, A2R and A2S
Working voltage	DC 16 - 30 V
Connection	2-wire bus, no polarity
Wiring	Twisted pair, max. wiring gauge 2.5 mm <sup>2</sup>
Quiescent current	≤0.1 mA @24 V
Activation current	≥25mA @24 V (plus <15 mA to remote indicator)
Working temp.	-10°C ~ +50°C
Storage temp.	-20°C ~ +60°C
Environment	≤ 95% RH (40±2°C) (no condensation nor icing)
Configuration	Soft configuration with tool JBE-AT1, non-volatile
Protection area	20~30 m <sup>2</sup> (subject to local codes)
Red LED indication	<u>Standby</u> : Flashing <u>Alarm</u> : Steady on when in alarm
Dimensions	∅100 mm × 41 mm
Weight	0.1 kg
IP rating	IP40
Compatible bases	JBE-2165 for installation with or without remote indicator
Remote indicator	LED with or without series resistor (Rs <4 kOhm)

## Installation

Always observe local fire and electric installation regulations.

1. Secure the base to the ceiling. The nominal spacing of drills is 60 mm
2. Connect the wiring to the base as per the following diagram:



Terminals	Connection
1 / L1	Negative voltage of the Zone (No polarity)
2 / L2	Positive voltage of the Zone (No polarity)
3 / G	Negative remote indicator (Optional)
4 / V	Negative voltage of the Zone (No polarity)

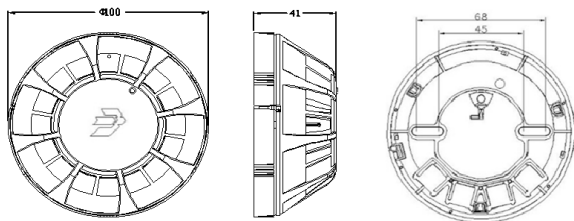
3. Select the sensitivity profile most appropriate for your application using the JBE-AT1 tool.
4. Mount the detector onto its base and turn it clockwise to secure.
5. Test each detector and wiring integrity after installation and periodically according to local fire regulation.

## Maintenance

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

The dust cover can protect the detector from noxious dust accumulation during construction works, but the detector will not be able to detect temperature while the dust cover is on!

## Mechanical dimensions



all dimensions in mm

## Regulatory information

**CE**

**0370**

Jade Bird Fire Alarm International (Europe), S.L.  
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DoP-0370-CPR-6413-1

**EN 54-5:2017+A1:2018**

JBE-2107

*Conventional heat detector with selectable categories A2, A2R and A2S, intended for use in fire detection and fire alarm systems installed in and around buildings.*

Technical file: see TF-JBE-2107-10 held by the manufacturer.

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