

Overview

JBE-2115 is an addressable combined heat and optical smoke detector designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loop protocol. It sends fire alarm signals to the fire panel when the pre-selected levels of heat or smoke are detected.

The detector features six (6) sensitivity profiles, which combine different levels of heat and smoke.

JBE-2115 has pollution compensation function that prevents false alarm results from dust accumulation.

Technical Data

Category	EN 54-5 (A2 type) and/or EN 54-7 depending on the profile selection in the control panel.
Working voltage	DC 19-28 V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair, max. wiring gauge 2.5 mm ²
Quiescent current	≤0.3 mA @24 V
Activation current	≤1 mA @24 V
Working temp.	-10°C to +60°C
Storage temp.	-30°C to +70°C
Environment Humidity	≤ 95% RH (40±2°C) (no condensation nor icing)
Addressing method	Soft addressing with tool JBE-AT1, non-volatile
Address range	1-200
Protection area	20~30 m ² (subjected to local codes)
Red LED indication	Flashes when polling. Constant on when alarms.
Dimension	∅100 mm × 53 mm
Weight	0.1 kg
IP rating	IP40
Compatible base	JBE-2160

Sensitivity levels

The detector performs continuously independent measurements of heat and smoke, allowing the fire panel to indicate alarm, depending on the selected alarm profile.

Each profile incorporates at least one EN 54 certified heat and/or smoke alarm levels. However, note that some profiles incorporate alarm levels which are above or below EN 54 requirements. Thresholds compliant to EN 54 are indicated in the table below.

Profile	Sensitivity smoke	Sensitivity heat
1	Very high	EN 54-5 A2
2	EN 54-7	EN 54-5 A2
3	EN 54-7	Very low
4	EN 54-7	0 (no heat alarm)
5	Very low	EN 54-5 A2
6	0 (no smoke alarm)	EN 54-5 A2

Expert judgement is required in order to select the most appropriate profile for each application. Compliance to EN 54 requirements shall not be assumed for those profiles which are not indicated as such.

The day/night programming in the Draco fire panel allows changing automatically the profile at different times of the day or the week.

Installation

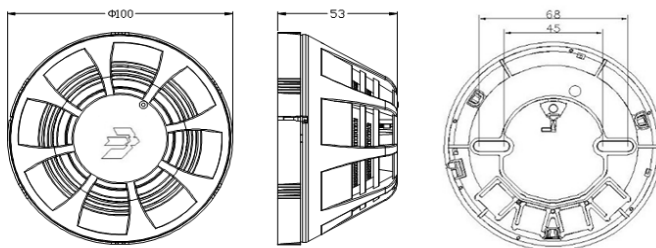
Always observe local fire and electric installation regulations.

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

Terminals	Connection
1 & 2	Signal loop L1, L2 (interchangeable: No polarity)

3. Program an unused loop address (1 to 200) to the detector head using the JBE-AT1 tool.
4. Mount the detector onto its base and turn it clockwise to secure.
5. Register the detector into the fire panel's configuration. Select the sensitivity profile most appropriate for your application
6. Test each detector and wiring integrity after installation.

Mechanical dimensions




all dimensions in mm

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 won't be able to detect smoke while the dust cover is on!

Regulatory information


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Jade Bird Fire Alarm International (Europe), S.L. C. Tarragona, 157. 08014 Barcelona (Spain) 20 DoP-0370-CPR-3809-1
EN 54-5:2017+A1:2018, EN 54-7:2018 JBE-2115 <i>Combined heat detector (category A2) and optical smoke detector</i> <i>Intended for use in fire detection and fire alarm systems installed in and around buildings</i> Technical file: see TF-JBE-2115-10 held by the manufacturer.

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