

Overview

JBE-2150 is an isolator module designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loop protocol.

The isolator is placed at intervals on the loop and ensures that, in case of a short circuit, only the section between the isolators will be affected. The two wires of the loop section between the 2 isolators that are closest to the short circuit are disconnected, allowing to work the rest of the loop. When the short circuit is removed, the isolators automatically connect the isolated loop section restoring power and data.

The total number of devices protected by each isolator should not exceed 32.

Convenient LEDs provide local information of the isolator status to support installation inspection and troubleshooting. The top LED turns ON when side A of the loop is disconnected, and the bottom LED turns on when side B of the loop is disconnected.

The isolator modules don't use address from the loop and it's not required to program an address.

Technical data

Category	EN 54-17 isolator module
Working voltage	DC 20-30 V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair, max. wire section 2.5 mm ²
Quiescent current	≤ 0.25mA @27VDC
Short circuit current	≤ 15mA @27VDC
Maximum number of devices between isolators	32
Working temp.	0°C ~ +40°C
Storage temp.	-20°C ~ +60°C
Environment	≤ 95% RH (40±2°C) (no condensation nor icing)
LED Indication (Orange)	<u>Standby</u> : The two LEDs are OFF <u>Short-Circuit in Side A</u> : Top LED is on <u>Short-Circuit in Side B</u> : Bottom LED is on
Dimensions	85x85x41mm (LxWxH)
Weight	0.1 kg (including base)
IP rating	IP40

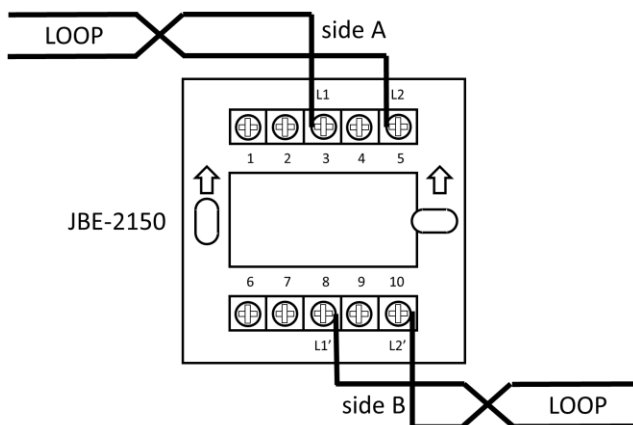
Installation

Always observe local fire and electric installation regulations.

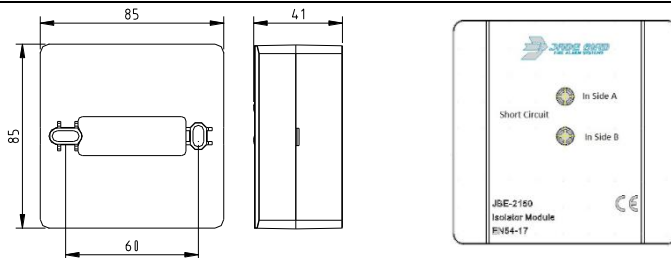
1. Secure the base to the wall (surface or flush mounted).
2. Connect the wiring to the base as per the following diagram:

Terminals	Connection
2(3) & 4(5)	Signal loop side A: L1, L2 (no polarity)
7(8) & 9(10)	Signal loop side B: L1', L2' (no polarity)

3. Insert the module into its base and push firmly.
4. Test each module and wiring integrity after installation and periodically according to local fire regulation.



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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EN 54-17:2005+AC:2007

JBE-2150

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

Technical file: see TF-JBE-2150-10 provided by the manufacturer.

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

