

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

Electrical Specification	
Category	EN 54-17 Isolator module
Operating Voltage	20 to 30VDC (JBE protocol pulse amplitude)
Quiescent current	$\leq 0.25\text{mA @}27\text{VDC}$
Short circuit current	$\leq 15\text{mA @}27\text{VDC}$
Maximum number of devices between isolators	32
Connection detail	
Connection	2-wire JBE communication bus, no polarity

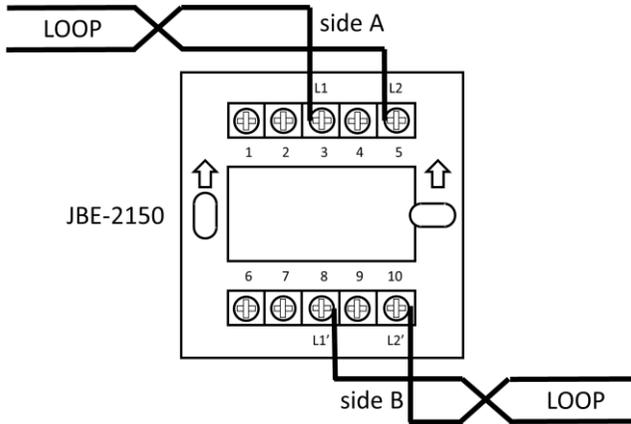
Wiring	Twisted pair, max. wiring gauge 2.5 mm ² (0.5 to 2.5 mm ²)
LED Indication	<ul style="list-style-type: none"> - Quiescent: The two LEDs are OFF - Short-Circuit in Side A: Top LED is ON - Short-Circuit in Side B: Bottom LED is ON
Physical characteristics	
Dimensions (LxWxH)	85x85x41mm
Weight	100g
Environmental Specifications	
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 50°C
Relative humidity	≤ 95% RH (no condensation nor icing)
Ingress protection rating	IP40

Installation

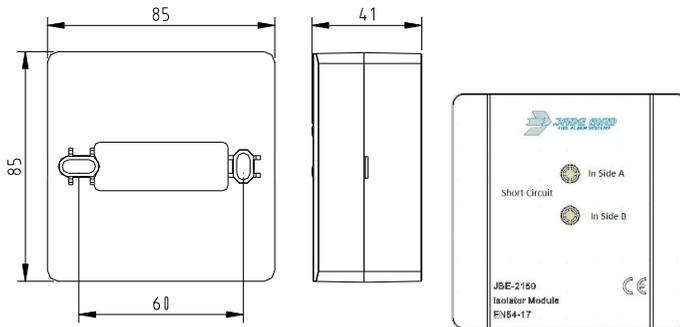
1. Secure the base to the wall (surface or flush mounted).
2. Connect the wiring to the base as per the following diagram:

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

3. Insert the module into its base and push firmly.
4. Test wiring integrity after installation.



Mechanical outline



all dimensions in mm

Regulatory information


0370 Jade Bird Fire Alarm International (Europe), S.L. C. Tarragona, 157. 08014 Barcelona (Spain)
20 DoP-0370-CPR-3807-1
EN 54-17:2005 EN 54-17:2005/AC:2007 JBE-2150 <i>Input device intended for use in fire detection and fire alarm systems installed in and around buildings</i> Technical file: see TF-JBE-2150-10 provided by the manufacturer.

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