JBE-2150

Isolator Module

Key Features

- Front LED indicator for both protected sides
- Backbox with connection terminal allow easy removal/installation
- EN 54-17 certificate

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 the rest of the loop to continue working. 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 does not use address from the loop and it is not required to program an address.

Accessories

All the module interfaces are provided with their own base JBE-2175 but it is also available as a replacement or spare part.

This base JBE-2175 is compatible with:

- Addressable Input Module JBE-2120
- Addressable Output Module with Feedback Input JBE-2125
- Isolator Module JBE-2150

TECHNICAL DATA

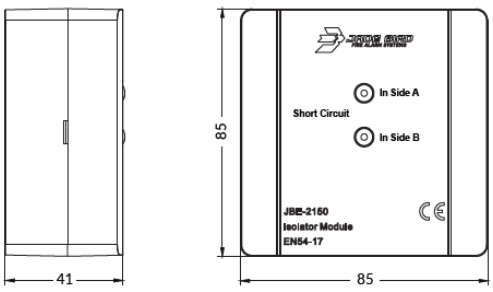
Category	EN 54-17 input module
Working voltage	DC 20-30 V (JBE protocol pulse amplitude)
Quiescent current	≤0.25 mA @27 VDC
Short circuit current	≤15 mA @27 VDC
Maximum number of devices between isolators	32
Connection	2-wire JBE communication bus, no polarity
Wire size	Twisted pair, max. wire section 2.5 mm^2
LED Indications (orange)	Standby: The two LED are OFF Short-circuit on side A: Top LED is ON Short-circuit on side B: Bottom LED is ON
Dimensions (WxHxD)	85 mm × 85 mm x 41 mm
Weight	0.1 kg (including base)
Working temperature	0 to +40°C
Storage temperature	-20 to +60°C
Relative Humidity	≤ 95% RH (no condensation nor icing)
IP rating	IP40
Standards	EN 54-17:2005 EN 54-17:2005/AC:2007
Declaration of Perf.	DoP-0370-CPR-3805-1

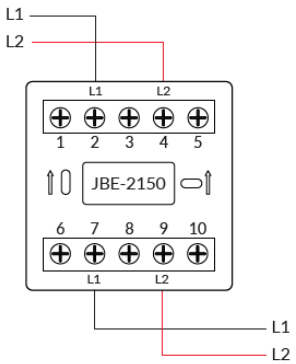
Installation

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

Mechanical dimensions (all dimensions in mm) and connection 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)