

Overview

JBE-2120 is an addressable input module designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loop protocol. The module is loop-powered and provides one logic input to the fire detection system controlled by the fire panel. This input is electrically isolated from the loop and can be used for monitoring the state of one normally open dry-contact switch. Input modules are often used to monitor third-party equipment such as a door contact. When the input is activated, the LED turns on and the module reports the event to the fire panel.

The JBE-2120 will notify the control panel if there is a disconnection in the pair of cables which lead to the monitored field equipment.

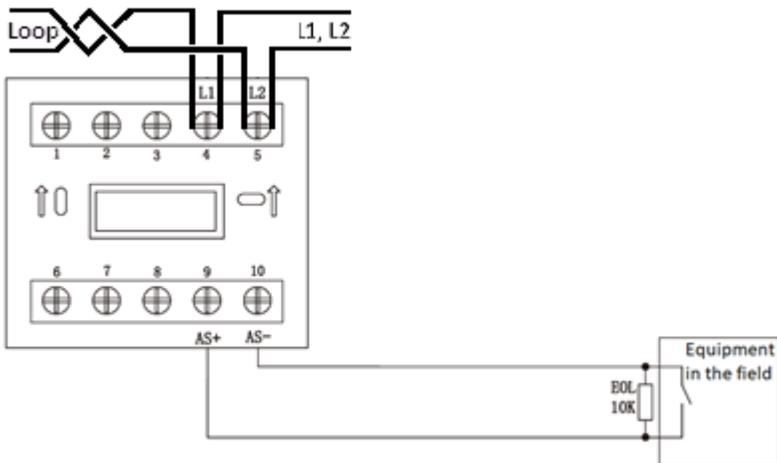
Technical data

Category	EN 54-18 input module
Working voltage	16-30 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	≤0.25 mA @24 V
Activation current	≤1 mA @24 V
EOL resistor	10 kΩ
Working temperature	0~+40°C
Storage temperature	-20~+50°C
Environment Humidity	≤ 95% RH (no condensation nor icing)
Addressing method	Soft addressing with tool JBE-AT1, non-volatile
Address range	1-200
LED Indications	Standby: "Input" LED flashes when polled. Fault: "Input" is off. Activation: "Input" is constantly on.
Dimensions	(LxWxH) 85×85x41 mm
Weight	0.1 kg (including base)
IP rating	IP40

Installation

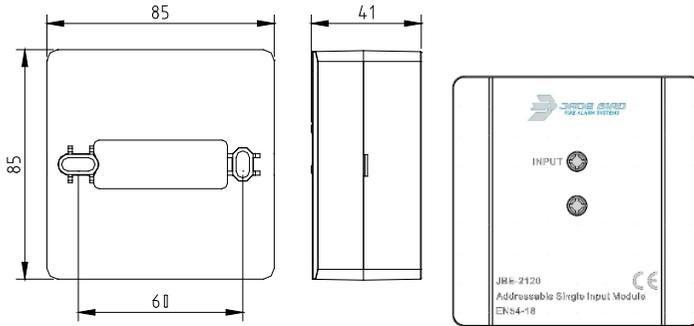
1. Secure the base to the wall (surface or flush mounted).
2. Connect the wiring to the base as per the following diagram:

Terminals	Connection
4&5	Bus loop: L1, L2 (no polarity)
9&10	Connect equipment in the field: AS+, AS-. Install the 10 kΩ resistor (provided with the unit) at the furthest end of the cable, in parallel to the NO switch in the field equipment that is monitored.



3. Program an unused loop address (1 to 200) to the module using the JBE-AT1 tool.
4. Insert the module into its base and push firmly.
5. Register the module into the fire panel's configuration.
6. 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-3805-1
EN 54-18:2005+AC:2007 JBE-2120 <i>Input device intended for use in fire detection and fire alarm systems installed in and around buildings</i> Technical file: see TF-JBE-2120-10 provided by the manufacturer.

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