

JBE-2120

Addressable Input Module



Key Features

- Front LED indicator
- Monitored for short and open circuit input
- Backbox with connection terminal allow easy removal/installation
- Programmable soft address by means of JBE-AT1 tool
- EN 54-18 certificate

JBE-2120 is an addressable input module designed to operate on a loop of intelligent fire detection and alarm devices with the Jade Bird Europe 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.

Accessories

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

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

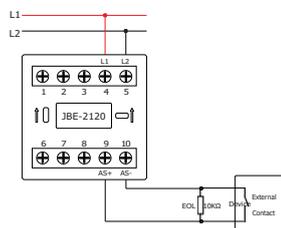
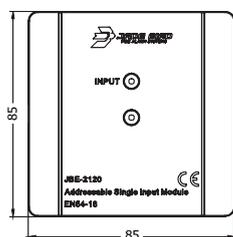
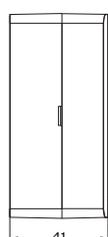
Category	EN 54-18 input module
Working voltage	16-30 VDC (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair, max. wiring gauge 2.5 mm ² (0.5 to 2.5 mm ²)
Quiescent current	≤0.25 mA @24 V
Activation current	≤1 mA @24 V
EOL resistor	10 kΩ
Working temperature	0 to +40°C
Storage temperature	-20 to +60°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 (WxHxD)	85 mm × 85 mm x 41 mm
Weight	0.1 kg (including base)
IP rating	IP40
Standards	EN 54-18:2005+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. 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 dimensions (all dimensions in mm) and connection diagram



Terminals	Connection
4 & 5	Signal Loop L1, L2 n(o 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.