JBE-2125

Addressable Output Module with Feedback Input

Key Features

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

JBE-2125 is an addressable output module with one feedback input designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loopprotocol.

Each module provides one output to the fire detection system and one feedback input. The module receives activation commands from the JBE fire panel and activates its output accordingly. The feedback input can be used to monitor, from the panel, electric contact to confirm the effect of the output activation.

The output can be used as an electrically isolated relay or as a 24-V active output. To be able to provide an active (24V) output, the module needs to be connected to the 24V field bus.

The JBE-2125 has a fault detection feature which notifies the control panel when the input wiring is disconnected and when the output wiring has an open or short circuit. The fault detection function is only available in the active output mode.

Convenient LEDs provide local information of the output and input status to support installation inspection and troubleshooting.

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 54-18 input output module
Working voltage	DC 16-30 V (JBE protocol pulse amplitude)
Connection	2-wire JBE communication bus, no polarity
Wiring	Twisted pair, max. wiring gauge 2.5 mm^2
Quiescent current	≤0.25 mA @24 V
Activation current	≤1 mA @24 V
Output	Maximum 1 A @24V
Clean contact rating	2 A/30 V DC (Relay output mode)
Input EOL Resistor	10 kΩ
Output 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 Indication (Active output mode)	Standby: "Input" and "Output" LED flashes when polled
	Output Activation: "Output" LED is constantly on
	Feedback: "Input" is constantly on
	Input Fault: "Input" is off and "Output" flashes
	Output or 24V Fault: "Input" and "Output" are off
LED Indication (Relay Output mode)	Standby: "Input" LED flashes, "Output" LED off
	Fault: "Input" and "Output" LED off
Dimensions (LxWxH)	85 mm × 85 mm x 41 mm
Weight	0.1 kg (including base)
IP rating	IP40
Standards	EN 54-18:2005 ; EN 54-18:2005/AC:2007
Declaration of Perf.	DoP-0370-CPR-3806-1

Installation

Always observe local fire and electric installation regulations
1. Secure the base to the wall (surface or flush mounted).
2. Determine if the installation requires an active (24V) or passive (relay contact) output.
3. Connect the wiring to the base according to the desired application.
4. Program an unused loop address (1 to 200) to the module using the JBE-AT1 tool.
5. Using the JBE-AT1 tool, program:
   a) 201 to set the active output mode.
   b) 202 to set the Relay output mode.
6. Insert the module into its base and push firmly.
7. Register the module into the fire panel's configuration.
8. Test wiring integrity after installation.

Terminals	Connection
1 & 3	Power supply 24 VDC, GND
2	24 V input. Connect to contact 1 if needed.
4 & 5	Signal Loop L1, L2 no polarity)
8 & 10	CO, GND, used when need to 24V output, connect to equipment in the field. EOL resistor is needed
9 & 10	AS+, GND, connect feedback contacts. EOL resistor is needed
6 & 7 & 8	COM (Common), NC (Normally Closed), CO (Normally Open) are the relay connections when used in Relay output mode

Mechanical dimensions in mm) and connection diagram: