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BIS-412M 24V

Bistable relay (group) with
„memory” contact position



Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

Electronic bistable pulse relay BIS-412M is designed to work in a group system. The single relay allows you to control the receiver using momentary (bell) buttons, connected to local control inputs. Additionally, thanks to the central control inputs, it is possible to group control of many receivers simultaneously.

Functioning

The lighting of the green LED marked with the U symbol means that the device is properly powered. The device can be controlled from the level of local and central inputs.

Local control

The receiver is turned on (the relay contact is switched to position 7-10) after pressing any momentary button from the local control group. The activation of the receiver is signaled by the lighting of the red LED diode. Another pressing of the button from the local control group will turn off the receiver (the contact returns to position 7-12).

Central control

SWITCH OFF EVERYTHING (input no. 9) – pressing the momentary button connected to this input will always turn off the receiver (regardless of its previous state). The relay contacts will be switched to position 7-12. This input allows you to centrally control a group of devices with a single button.

SWITCH ON EVERYTHING (input no. 4) – pressing the momentary button connected to this input will always turn on the receiver (regardless of its previous state). The relay contacts will be switched to position 7-10. This input allows you to centrally control a group of devices with a single button.

The relay has the feature of the so-called "memory" of the contact position, which means when the power supply is switched back on, the relay will be restored to the state it was in when the power supply was switched off.

Mounting

1. Disconnect the power supply.
2. Fix the relay on a rail in the control box.



Do not install a device that is damaged or incomplete.

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3. Connect the power wires to terminals 1-3 according to the diagram.



A group of relays working with common central control must be powered from the same line (~) for AC or only from (+) for DC.



Be especially careful when installing the controller. Incorrect connection may result in electric shock and/or damage to the controller and the powered device.

4. Connect the local control and central control switches to the relay terminals according to the function and to the common wire (~) or (+).
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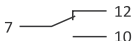
Connecting to the control inputs of relays of different lines (~) or (+) may cause incorrect operation of the system and lead to an electric short circuit in the installation and destruction of the controllers.

5. Connect the relay contact in series into the power supply circuit of the controlled receiver (lighting) (connect the power to terminal 7; supply the controlled receiver from the contact 10).
6. Connect the power supply.
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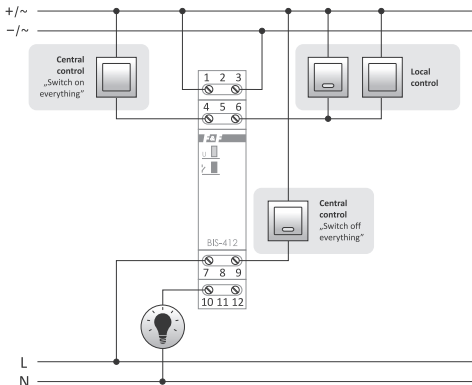


BIS-412M 24V is not compatible with backlit buttons.

Contact configuration



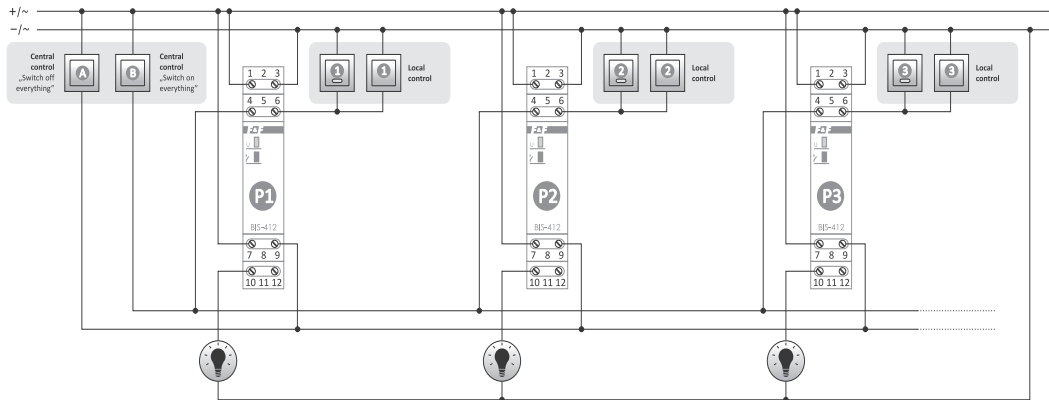
Wiring diagram



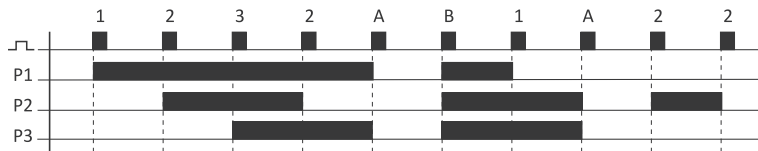
- 1-3 relay power supply 9÷30 V AC/DC
- 4 central control: **SWITCH ON EVERYTHING**
- 6 local control: **ON/OFF**
- 9 central control: **SWITCH OFF EVERYTHING**
- 7-10-12 1×NO/NC separated changeover contact



With the DC supply voltage, the control inputs can be powered only from the "plus" wire (+).



Group system diagram



Technical data

power supply	9÷30 V AC/DC
contact	separated 1×NO/NC
maximum load current (AC-1)	16 A
activation delay	0.1÷0.2 s
power indication	green LED
signalling indication	red LED
power consumption	
standby	0.15 W
on	0.6 W
terminal	2.5 mm ² screw terminals
tightening torque	0.4 Nm
working temperature	-25÷50°C
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

Power table

Table for loads supplied with 230 V AC:

				
tungsten	halogen	fluorescent	energy-saving	LED
2000 W	1250 W	1000 W	500 W	250 W

The above data are indicative and will heavily depend on the design of a specific receiver (that is especially important for LED bulbs, energy-saving lamps, electronic transformers and pulse power supply units), switching frequency and operating conditions.

For more information visit: www.fif.com.pl.

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

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