



## ELECTRONIC BI-STABLE PULSE RELAY

**BIS-411**  
**24V**

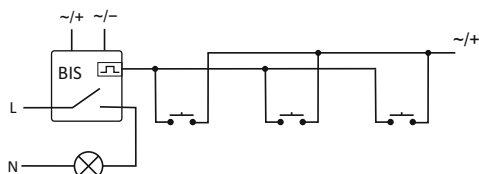
**WARRANTY.** The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a compliant can be found on the website:



Do not dispose of this device to a garbage bin with other unsorted waste! In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of nature pose a threat to the environment and human health.

### PURPOSE

Electronic bi-stable pulse relays BIS-411 24V enables the user to actuate lighting or other devices from various locations by means of control buttons in parallel connection.



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### FUNCTIONING

The receiver is actuated by means of a current pulse triggered by pushing any bell push connected to the relay. The receiver is deactivated by another pulse or after a preset time. The relay does not „memorize“ the position of the relay contact, i.e. in case of supply voltage decay and the subsequent return of supply voltage, the relay contact will be set in the off position. Such a solution prevents the automatic actuation of the receivers controlled that might occur without proper supervision after a long-lasting decay of supply voltage.

### ASSEMBLY

1. Turn OFF the power.
2. Put on the relay on the rail in the switchgear box.
3. Connect the power cable to contact 1-3 with marks.
4. The timers switching which are connect in parallel connect to contact 6 and to cable which is connect to joint 3.
5. The activated receiver connect in series to contact 11-12.

### ATTENTION!

The BIS-411 24V not compatible with bell pushes equipped with fluorescent lamps.

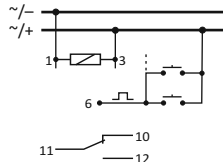


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### TECHNICAL DATA

|                             |                                    |
|-----------------------------|------------------------------------|
| power supply                | 9±30V AC/DC                        |
| contact / current load AC-1 | separated 1NO / <16A               |
| control pulse               | 9±30V AC <5mA                      |
| activation delay            | 0.1±0.2sec                         |
| signalling of supply        | green LED                          |
| signalling of activation    | red LED                            |
| power consumption           |                                    |
| standby                     | 0.15W                              |
| on                          | 0.6W                               |
| working temperature         | -25±50°C                           |
| connection                  | 2.5mm <sup>2</sup> screw terminals |
| tightening torque           | 0.4 Nm                             |
| dimensions                  | 1 module (18mm)                    |
| fixing                      | on the TH-35 rail                  |
| ingress protection          | IP20                               |

### WIRING DIAGRAM



#### SUPPLY

1-3 power relay: 9±30V AC/DC

#### CONTROL INPUTS

6 control input

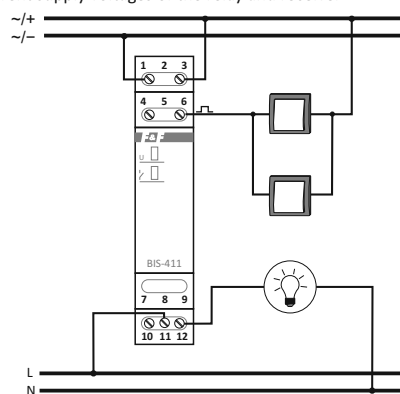
#### CONTACT

- 11 power input contact COM
- 10 output: NC contact (passive)
- 12 output: NO contact (active)

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### Connection scheme (example)

different supply voltages of the relay and receiver



### Table of power

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

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](http://www.fif.com.pl)

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