

**ELECTRONIC BI-STABLE PULSE RELAY
 with timing switch**

**BIS-413
 230V**

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 complaint can be found on the website:
www.fif.com.pl/reklamacje

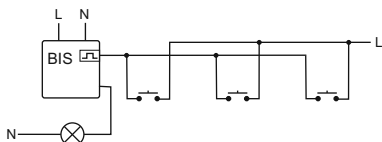


Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle 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.



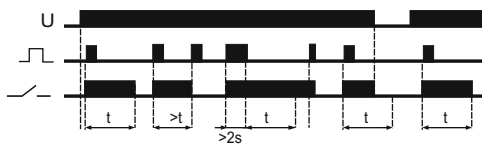
Purpose

Electronic bi-stable pulse relays BIS-413 230V enables the user to actuate lighting or other devices from various locations by means of control buttons in parallel connection.



Functioning

The receiver is activated by the current pulse triggered by pressing any momentary (bell) button connected to the relay. The receiver is switched off by the next pulse or automatically, after a preset time. Pressing the momentary button for minimum 2 seconds activates the relay permanently. It will switch off only after a momentary button is pressed again (or after a power failure). The supply voltage is indicated by Green LED U. The relay activation and timer start to automatic switch off is indicated by flashing red LED. The permanent activation of the relay is indicated by a steady light of the red LED.



Technical data

power supply	100±265V AC
contact / load current AC-1	separated 1×NO/NC / <16
control pulse	110±265V AC <20mA
max. current control buttons	±5mA
delay of response	0.1±0.2sec
backup time clock operation - adjustable	1±12min.
power indication	green LED
signalling activation	red LED
power consumption	
standby	0.15W
on	0.6W
working temperature	-25±50°C
terminal	2.5mm ² screw terminals
tightening torque	0.4Nm
dimensions	1 module (18mm)
mounting	on the TH-35 rail
ingress protection	IP20

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 accordance chosen control option the relay (control impulse L or N).
4. The timers switching which are connect in parallel connect to contact 6 and to cable which is connect to contact 3.
5. The activated receiver connect in series to contact 11-12.
6. By screwdriver set to switching OFF delay.

Note!

BIS-413 compatible with bell pushes equipped with fluorescent lamps. (ΣI<5mA).



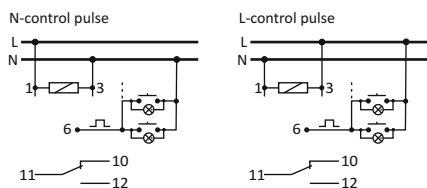
Table of power

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

Connection scheme



IN/OUT description

- 1,3 - power supply 230V AC
- 6 - control signal input
- 10 - NC contact
- 11 - COM contact
- 12 - NO contact

Sample application

