



F&F Filipowski L.P.
Konstantynowska 79/81, 95-200 Pabianice, POLAND
phone/fax (+48 42) 215 23 83 / (+48 42) 227 09 71
www.fif.com.pl; e-mail: biuro@fif.com.pl

BIS-416

Bistable relay,
2-channel



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-416 allows switching on or off the lighting or other device from several different points by parallel connected, momentary (bell) control switches.

Functioning

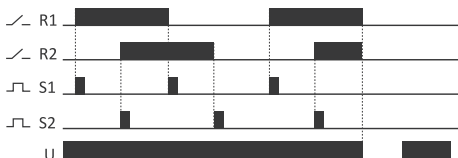
The relay is activated with a current pulse caused by the press of any momentary (bell) button connected to the relay. Subsequent pulse will switch the relay off.

The relay has two independently controlled channels.

Control is carried out by means of two separate signal inputs. Pulse on S1 input controls the R1 output. S2 input and R2 output operate on the same basis.

The relay does not have a „memory” of the contact position, i.e. when power returns after power failure, contact of the relay will be set in the disabled state. This prevents automatic switching of controlled receivers without supervision after prolonged power outage.

Diagram



Mounting

1. Disconnect the power supply.
2. Mount relay in the flush-mounted box.
3. Connect the power supply cables to PWR group: phase wire L to terminal 4, neutral wire N to terminal 3.
4. Parallel connected S1 momentary switches (R1 section control) connect to terminal 2 and phase wire L. Parallel connected S2 momentary switches (R2 section control) connect to terminal 1 and phase wire L.
5. Powered receiver of section R1 connect in series to terminal 6 and neutral wire N. Powered receiver of section R2 connect in series to terminal 5 and neutral wire N.

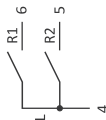
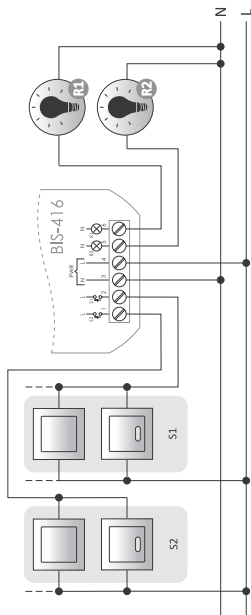


BIS-416 is compatible with backlit buttons.



The maximum total backlight current of all connected buttons must not exceed 5 mA.

Wiring diagram



- 1 S2 – controlling the R2 output
- 2 S1 – controlling the R1 output
- 3 N – power supply (neutral wire)
- 4 L – power supply (phase wire)
- 5 R2 – output, channel 2
- 6 R1 – output, channel 1

Technical data

power supply	165÷265 V AC
contact	2×NO
maximum load current (AC-1)	2×8 A
control pulse current	5 mA
activation delay	0.1÷0.2 s
power indication	green 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	ø54 (48×43 mm), h= 20 mm
mounting	in flush mounted box ø60
ingress protection	IP20

Power table

				
tungsten	halogen	fluorescent	energy-saving	LED
1000 W	600 W	500 W	250 W	120 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 L.P. 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.

