

Zakład Mechaniki i Elektroniki ZAMEL sp.i.

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DESCRIPTION

The bistable relay PBM-01 is used to control lighting or other devices by means of monomodular pushbuttons connected in a parallel way. Pushing any button causes switching on or switching off the devices connected to output terminals. Using this system gives the possibility of creating "intelligent" lighting control systems.

FEATURES

- · Bistable lighting control Input rated indicator - LED green,
- relay mode indicator LED red,
- system releasing from the L or N ca-
- · cooperation with monostable pushbuttons equipped with illumination lamps.
- TEST function,
- double-wire controll installation,
- voltage relay output one NO (normal closed) contact max 16 A capacity
- monomodular casing TH-35 DIN rail installation.

TECHNICAL DATA

PBM-01

Input (supply) terminals: L, N Input rated voltage: 230 V~

Input voltage tolerance: -15 ÷ +10 %

Nominal frequency: 50 / 60 Hz

Rated power consumption:

Supply voltage control indicator: LED green

Release terminals: IN. IN. IN Release control current: 930 uA

Power/relay supply indicator: LED red

Relay operating indicator: TEST button

Output relay parameters: 1NO - 16 A / 250 V AC1 4000 VA

Number of terminal clamps:

Section of connecting cables: 0.2 ÷ 2.50 mm² Ambient temperature range:

-20 ÷ +45 °C

Operating position: freely

> rail TH 35 (PN-EN 60715) Mounting:

IP20 (PN-EN 60529) Protection degree:

Protection level: Overvoltage category:

Pollution degree:

Napięcie udarowe: 1 kV (PN-EN 61000-4-5)

Dimensions: monomodular (17,5 mm) 90x17,5x66 mm

Weight:

Reference standards: PN-EN 60669-1; PN-EN 60669-2-1

PN-EN 61000-4-2,3,4,5,6,11



The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. The CAUTION device should be connected according to the details inc-

luded in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage. and use of the device influence its wrong functioning

It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



The symbol means selective collecting of electrical and electronical equipment. It is forbidden to put the used equipment together with other waste

Input supply terminal (L)

Input supply terminal (N)

Release terminals

(IN, IN, IN)

Supply voltage control indicator Power/relay supply indicator

APPEARANCE

Relay test

> TEST PBM - 01

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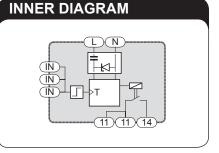
Output (load) relay terminals (11, 11, 14)

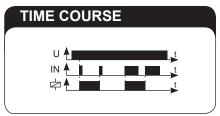
MOUNTING, FUNCTIONING

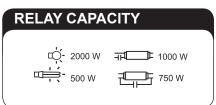
- 1. Disconnect the power supply from the mains by the phase fuse, the circuitbreaker or the switch-disconnector that are joined to the proper circuit,
- 2. Check if there is no voltage on connection cables by means of a special measure equipment,
- 3. Install PBM-01 device in the switchboard on TH-35 DIN rail,
- 4. Connect the cables with the terminals according to installing diagram,
- Switch on the power supply from the mains.
- 6. Push the TEST button several times to check the relay operation correct-

The device is ready to work after switching on power supply. The relay operation correctness can be checked by pushing the TEST button placed on the front panel. The system should switch on and off the load connected to its output terminals. Mono modular pushbuttons can be connected in a paralell way which enables the lighting control from different places. Lighted pushbuttons version is possible.

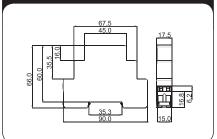
CONNECTION L/N zaMei U 0 🖒





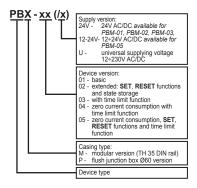


DIMENSIONS

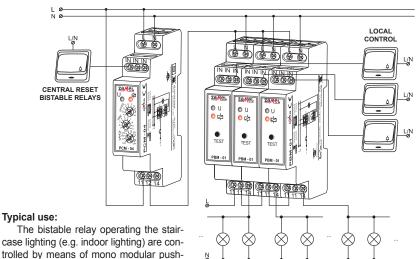


PRODUCT FAMILY

The time relay PBM-01 belongs to PBM time relay product family.



APPLICATION



The bistable relay operating the staircase lighting (e.g. indoor lighting) are controlled by means of mono modular pushbuttons that can be connected in a parallel

way. The buttons can be placed in different places which gives the possibility of creating universal lighting systems control. The bistable relay cooperates with time relay PCM-04 (with set-ups: MODE=F, TIME=3, RANGE=2) and the same gives additional function of the central bistable relay switch off (reset) by momentary power cut.

Signal separator coordination SEM-01:

In the bistable control systems signal separators can be used to divide control signals into particular relay groups.

WARRANTY CARD

There is 24 months guarantee on the product

- ZMIE ZAMEL SP. J. assures 24 months guarantee for the product.
- The manufacturer's guarantee does not cover any of the following actions:
 a) mechanical damage during transport, loading / unloading or under other circumstances,
- b) damage caused by incorrect product mounting or misuse,
 c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the product functioning,
- d) damage caused by Act of God or any other incidents independent of the manufacturer.

- a) damage caused by Act of God or any otner incidents independent of the manufacturer.
 3. The PURCHASER shall lay any claims in writing to the dealer or ZMIE ZAMEL SP. J.
 4. ZMIE ZAMEL SP. J. is liable for processing any claim according to current Polish legislation.
 5. ZMIE ZAMEL SP. J. shall process the claim at its own discretion: product repair, replacement or money return.
 6. The manufacturer's guarantee is valid in the Republic of Poland.
 7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.

Salesman stamp and signature, date of sale

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