

# ZAMEL Sp. z o.o.

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## **DESCRIPTION**

The PCP-04 multifunction relay is designed for timing function implementation in automatics and control systems. Both power supply voltage and control input trigger the relay. The PCP-04 relay is capable of operating in 8 independent op modes which may be triggered by means of either power supply voltage or external trigger impulse (from either L or N wires). It is possible to adjust time within very wide range. The device is fitted with the relay state indicator – the LED. It is possible to mount the device in the 60 mm junction box.

## **FEATURES**

- ی 8 operating modes,
- Relay state and time counting indicator LED,
- Triggered by means of power supply voltage or control input in dependence of set operating mode,
- ى High accuracy of time measure,
- G Relay output − one changeover contact, 5 A maximum load,
- Casing designed for mounting in a junction box.



The timer should be connected to a single-phase system accordingly to current standards. The device connections will be described in this

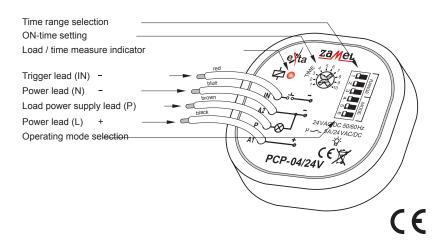
manual. Only qualified electricians are allowed to assembly, connect and adjust the timer. It is necessary to read this manual before the timer mounting. Do not disassembly the timer casing or you will lose any warranty rights and expose yourself to the electric shock hazard. Before mounting operation make sure of disconnecting the connection wires from the electric network. The timer should be carried, stored and used in an appropriate way. Do not mount the timer in case of any device parts lack, damage or deformation. In case of malfunction please notify the manufacturer.

## **TECHNICAL DATA**

PCP- 04/24V	
Power terminals:	(+) (black), (-) (blue)
Rated voltage:	24 V DC
Rated voltage tolerance:	-10 ÷ +10 %
Rated current:	20 mA
Load Power:	(+) (brown)
External trigger terminal:	IN (red) - triggered from (-)
Op modes quantity:	8
t time adjustment range:	0,1 s ÷ 10 days (servo + continuous)
Time measure accuracy:	0,2 %
Relay state and time measure indicator:	red LED
Relay contacts parameters:	1NO 5 A / 24 V DC (voltage contact) 120VA
Connection terminals / leads quantity:	4
Connection wire section:	1 mm <sup>2</sup>
Operating temperature:	-20 ÷ +60 °C
Operating position:	optional
Casing fastening:	60 mm junction box
Casing IP:	IP20 (PN-EN 60529)
Protection class:	Ш
Overvoltage category:	Ш
Pollution level:	2
Dimensions:	50 x 50 x 15 mm
Weight:	30 g
Standard conformity:	PN-EN 60669-1 PN-EN 60669-2-1

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

## **DESCRIPTION**



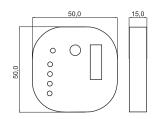
## **ASSEMBLY**

- Disconnect the electric network by means of an appropriate cut-off, current-limiting circuit-breaker or separator.
- Check if there is no any voltage between power leads by means of an appropriate gauge.
- Mount the PCP-04 device in the 60 mm junction box.
- 4. Connect wires according the electrical diagram.
- 5. Connect power supply circuit.
- Select the op mode by means of the MODE switch.
- Select time by means of the TIME handwheel and the RANGE switch, where t = TIME x RANGE.

#### LOAD

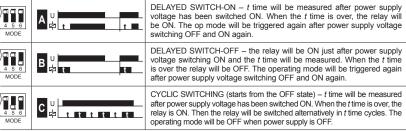


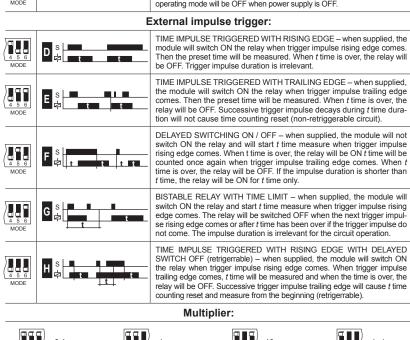
## **CASING DIMENSIONS**



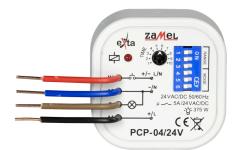
# **OPERATION**

#### Power supply voltage trigger:



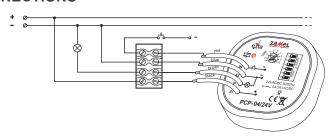


1 hour



## **CONNECTIONS**

10 min.



10 hours