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## PCU-511 DUO

### TIMING RELAYS

#### multi purpose



5 19 0 8 3 1 2 1 5 9 2 4 9 5

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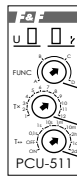
#### PURPOSE

Timing relays are devised to time the control of industrial and domestic automatic control engineering systems (e.g. entilation, heating, lighting, signalling, etc.).

#### FUNCTIONING

##### Working mode: LAGGED DEACTIVATION(A)

Until the relay is activated, the contact remains in the 11-10 position. After the power voltage is supplied (green LED U is shining), contact is shifted to position 11-12 and the countdown of the preset value  $t$  is commenced (red LED is shining). After the preset time  $t$  has been counted down, contact returns to position 11-10. The working sequence of the relay may be repeated after turning the power supply off and on.



operation mode knob  
time setting knob  
rotary switch of time knob

#### WORK TIME SETTINGS

By time range switch  $T \leftrightarrow$  set to one of choosen range and by setting time knob  $T \times$  set value from 1 to 12. Product of this vaules is equal work time (e.g.  $1m \times 7 = 7 \text{ min}$ ).

#### WORK MODE SETTINGS

By knob FUNC set one of functions (e.g. function A - Lagged Deactivation).

#### ATTENTION!

- With the power supply on, the system does not respond to time range setting modifications.
- The newly set time range is active after the power supply has been turned off and on.
- With the power supply on, it is possible to regulate the preset time freely within the selected time range.

#### ASSEMBLY

1. Take OFF the power.
  2. Put on the relay on the rail in the switchgearbox.
  3. Cables of power connect with wiring diagram with voltage marks: voltage 230V to joints 1-3; voltage 24V to joints 4-3
- ATTENTION:** Connect only one of choosen voltages.
4. System of switching ON receiver connect in line to joints 11-12

#### LAGGED ACTIVATION (B)

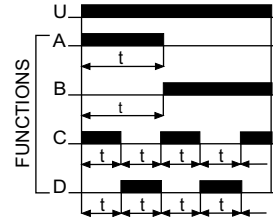
After the power voltage is supplied (green LED U is shining), the contact remains in position 11-10 and the timing of the preset value  $t$  is commenced. After the preset time  $t$  has been counted down, the contact is shifted to position 11-12 (red LED is shining). The working sequence of the relay may be repeated after turning the power supply off and on.

#### LAGGED ACTIVATION - CYCLIC (D)

The Lagged Activation mode is triggered in equal work cycles according to the preset time values.

#### LAGGED DEACTIVATION - CYCLIC (C)

The Lagged Deactivation mode is triggered in equal work cycles according to the preset time values.



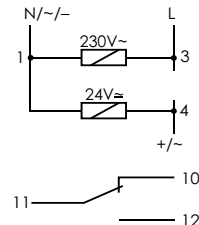
Setting the time range knob regulator in the:

- ON - position with power supply activated connection of joint in position 11-12.
- OFF - position with power supply activated connection of joint in position 11-10.

#### TECHNICAL DATA

supply	230VAC / 24VAC/DC
current load	<8A)
joint	1P
operation time	0,1sec+24h
switching ON delay	<50msec
power supply indicator	green LED
operation mode indicator	red LED
power consumption	0,8W
working temperature	-25+50°C
connection	screw terminals 2,5mm <sup>2</sup>
dimensions	1 module (18mm)

#### WIRING DIAGRAM



A090603