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TIMING RELAY (multi purpose) with external time setting knob

PCU-518
DUO

5 903121 592594

PURPOSE

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

FUNCTIONING

Working mode:

LAGGED DEACTIVATION(A)

Until the relay is activated, the contact remains in the 10-11 position. After the power voltage is supplied (green LED U is shining), contact is shifted to position 10-12 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 10-11. The working sequence of the relay may be repeated after turning the power supply off and on.

LAGGED ACTIVATION (B)

After the power voltage is supplied (green LED U is shining), the contact remains in position 10-11 and the timing of the preset value t is commenced. After the preset time t has been counted down, the contact is shifted to

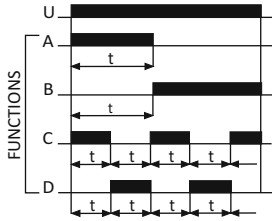
position 10-12 (red LED is shining). The working sequence of the relay maybe repeated after turning the power supply off and on.

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 Deactivatin 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 contact in position 10-12.
- **OFF** - position with power supply activated connection of contact in position 10-11.

WORK TIME SETTINGS

By time range switch T↔ set to one of choosen range and by setting time knob T× set value from 1 to 12. Product of this vaules is equal work time (e.g. 1m×7=7 min).

WORK MODE SETTINGS

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

ATTENTION!

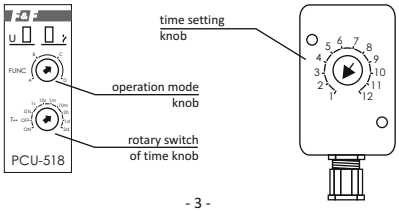
- With the power supply on, the system does not respond to time range setting modifications.
- The newly set time range is active after the power supply has been turned off and on.
- With the power supply on, it is possible to regulate the preset time freely within the selected time range.

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 marks: voltage 230 V to contacts 1-3; voltage 24 V to contacts 4-3.

ATTENTION! Connect only one of choosen voltages.

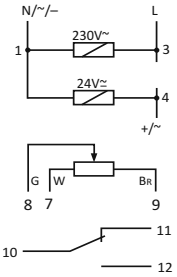
4. Cables of external potentiometer connect to relay with marks: WHITE cable to contact 7, GREEN to contact 8, BROWN to contact 9.
5. Take OFF the cover of potentiometer box.
6. From potentiometer take OFF knob which is places on mandrel and unscrew a nut.
7. In general panel of switchgearbox bore to a hole Ø10.
8. Stick a scale with prepared hole.
9. By through the prepared hole move out a mandrel of potentiometer and screw a nut.
10. Spoof to left a mandrel and next put on a knob in position that a white sign on the knob set to of number 1.
11. Take ON the cover of potentiometer box.
12. System of switching ON a receiver connect in line to contacts 10-12.



TECHNICAL DATA

RELAY	
supply	230V AC / 24V AC/DC
current load	<8A
contact	1×NO/NC
operation time	0.1sec÷24h
activation delay - aversive functions	<50msec
power supply indicator	green LED
operation mode indicator	red LED
power consumption	0.8W
working temperature	-25÷50°C
connection	2.5mm² screw terminals
dimensions	1 module (18mm)
fixing	on rail TH-35
EXTERNAL TIME SETTING KNOB	
connection wire	3×0.42mm²; l=70cm
box dimensions with knob	83×42×30mm
height / pin diameter	30 mm / Ø6
fixing hole	Ø10
resistance	100kΩ

WIRING DIAGRAM



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