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## PCU-510

### TIMING RELAYS multi purpose



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F&F products are covered by an 24 months warranty from date of purchase

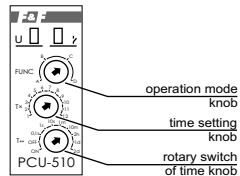
#### PURPOSE

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 8-7, 11-10 position. After the power voltage is supplied (green LED U is shining), contact is shifted to position 8-9, 11-12 and the countdown of the preset value t is commenced. After the preset time t has been counted down, contact returns to position 8-7, 11-10. The working sequence of the relay may be repeated after turning the power supply off and on.



#### 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 voltage marks: voltage 230V to joints 1-3; voltage 24V to joints 1-4
4. **ATTENTION**: Connect only one of choosen voltages.
4. System of switching ON receiver connect in line to joints 8-9 and 11-12.

#### LAGGED ACTIVATION (B)

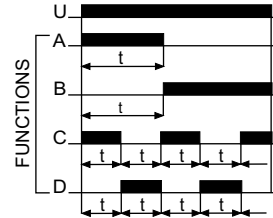
After the power voltage is supplied, the contact remains in position 8-7, 11-10 and the timing of the preset value t is commenced. After the preset time t has been counted down, the contact is shifted to position 8-9, 11-12. The working sequence of the relay may be repeated after turning the power supply 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 Deactivatin mode is triggered in equal work cycles according to the preset time values.



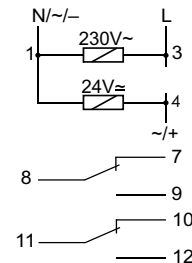
Setting the time range knob regulator in the:

- **ON** - position with power supply activated connection of joint in position 8-9 and 11-12.
- **OFF** - position with power supply activated connection of joint in position 8-7 and 11-10.

#### TECHNICAL DATA

|                          |                                    |
|--------------------------|------------------------------------|
| supply                   | 230V AC / 24V AC / DC              |
| current load             | 2×(<8A)                            |
| joint                    | 2P                                 |
| 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