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# PCU-520 230V

## TIMING RELAYS

### SETTING OF TWO INDEPENDENT TIME

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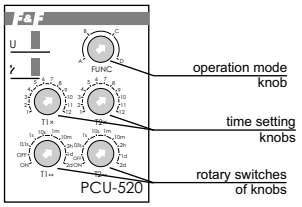
F&F products are covered by an 24 months warranty from date of purchase

### PURPOSE

*Timing relays are devised to time the control of industrial and domestic automatic control vengineering systems (e.g. entilation, heating, lighting, signalling, etc.).*
*Setting two independent times : work time t1 and break time t2.*

### FUNCTIONING

*Working mode:* ***LAGGED DEACTIVATION(A)***
*Until the relay is activated, the contact remains in the 1-5, 2-8 position. After the power voltage is supplied (green LED U is shining), contact is shifted to position 1-6, 2-7 for time t1 (red LED is shining). After the preset time t1 has been counted down, joint returns to position 1-5, 2-8 for time t2. After time t2 joint return to position 1-6, 2-7. 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 marks: joint 3 -L, joint 4-N.*
*4. System of switching ON a receiver connect in line to joints 1-6 and 2-7.*

### LAGGED ACTIVATION (B)

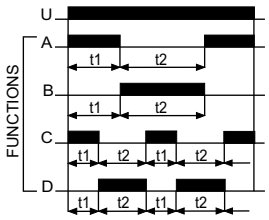
*After the power voltage is supplied ( green LED U is shining), the contact remains in position 1-5, 2-8 for time t1. After the preset time t1 has been counted down, the joint is shifted to position 1-6, 2-7 for time t2 (red LED is shining). After time t2 joint returns to position 1,5, 2-8. The working 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.*

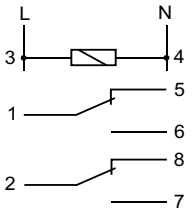



*Setting the time range knob regulator in the:*
***-ON*** *- position with power supply activated connection of joint in position 1-6, 2-7.*
*-****OFF*** *- position with power supply activated connection of joint in position 1-5, 2-8.*

### TECHNICAL DATA

| | |
|---|---|
| *supply* | *230VAC* |
| *current load* | *2×(<10A)* |
| *joint* | *2P* |
| *work time* | *0,1sec÷24h* |
| *break time* | *0,1s÷24h* |
| *switching ON delay* | *<50msec* |
| *power supply indicator* | *green LED* |
| *operation mode indicator* | *red LED* |
| *power consumption* | *1,2W* |
| *working temperature* | *-25÷50°C* |
| *connection* | *screw terminals 2,5mm²* |
| *dimensions* | *2 modules (35mm)* |
| *fixing* | *on rail TH-35* |

### WIRING DIAGRAM

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