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## PCS-516 UNI TIMING RELAY 10 Functions



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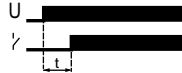
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### PURPOSE

Timing relay PCS-516 UNI is devised to time the control of industrial and domestic automatic control engineering systems (e.g. Ventilation, heating, lighting, signalling).

### WORKING MODE

(A)



### LAGGED ACTIVATION

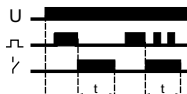
After the power voltage is supplied (green LED lights U) contact remains in position 3-5 and is focused on working time  $t$ . After the preset time  $t$  has been counted down, the contact is shifted to position 3-7. The working sequence of the relay may be repeated after turning the power supply off and on.

(F)



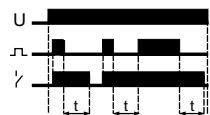
Generating a single pulse of time  $t$  increasing trailing edge signal START. During the timing system does not respond to START impulses.

(G)



Generating a single pulse of time  $t$  decreasing trailing edge START signal. During the timing system does not respond to START impulses.

(H)



Lag in deactivation with support function enabled. The leading edge of the START signal results in relay activation, whereas the trailing edge of the same signal triggers the time countdown. The supply of the START signal during countdown results in an extension of the cycle by another  $t$  time value along the trailing edge.

(B)



### LAGGED DEACTIVATION

Until the relay is activated, the contact remains in position 3-5. After the power voltage is supplied, (green LED U lights up) the contact is shifted to position 3-7 and is focused on working time  $t$  (red LED lights up). The working sequence of the relay may be repeated after turning the power supply off and on.

(C)



### LAGGED ACTIVATION - CYCLIC

The delay operational mode is executed periodically according to work/interruption time.

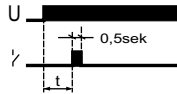
(D)



### LAGGED DEACTIVATION - CYCLIC

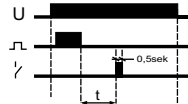
The delayed operation mode is carried out periodically in the same intervals of working hours and breaks.

(E)



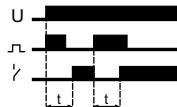
0.5 s. Impulse generating after preset time  $t$

(I)



Deactivation and activation lags with support function enabled. If the START voltage is supplied for less than 45 s, it is ignored by the system, however if it is longer, the relay is activated after the 45 s and the preset time value is counted down with the trailing edge of the START signal. If another START impulse is applied during the countdown, then the trailing edge of this signal will result in the repeated countdown sequence (e.g. for ventilation purposes: short activation of the lighting does not turn the fan on, but if the lighting is activated for longer than the 45 s, the fan will start).

(K)



Turning off the relay for a specified period of time along the leading edge of the START signal. During the preset time countdown the system does not respond to START signals.

If the RESET voltage is applied during the execution of:

\*A, B, C, D, F functions the 'selected operation' mode is restarted;

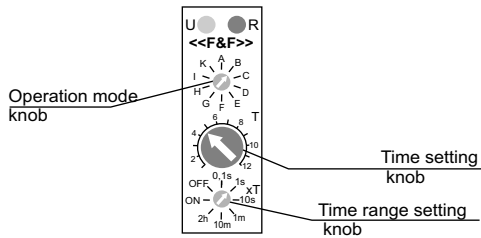
\*F, G, H, I functions the relay returns to the initial condition and awaits the START signal;

\*K function the relay's contact is closed permanently in the 3-7 position.

Setting the wheel regulator in the

\*ON position with power supply activated results in the permanent closure of the contact in position 3-7

\*OFF position (power supply activated) causes the contact to be permanently closed in the 3-5 position.



### SETTING OF TIME WORK

The wheel of choice for the temporal T-set one of the ranges, then the wheel setting time  $\times$  T set the value on a scale of 1 to 12. A product of these values is equal to the duration of work  $t$  (eg  $t = 1m \times 7 = 7 \text{ min}$ ). czasowi pracy  $t$  (np.  $t = 1m \times 7 = 7 \text{ min}$ ).

### SETTING OF OPERATION MODE

Using operation mode knob set the one of the functions (e.g. Function A - Delay activation).

### ATTENTION!

\* With the power supply system does not respond to a time range change and operation mode.

\* Working with the newly set time range and operation mode is if you turn off and re-power..

\* With the power supply in terms of setting time can be continuous regulation time in setting the value of time.

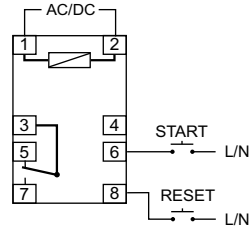
### ASSEMBLY

1. Disconnect the power supply.
2. Mount the relay on the bus bar in the transfer box.
3. Connect the power supply cables according to the diagram.
4. The receiver connected in series to the contacts 3-7

### TECHNICAL DATA

power supply	12+264V AC/DC
current load	<10A
contact	1P
working time	0,1s +24h
activation delay	< 50ms
signaling power	green LED
signaling contact status	red LED
power consumption	0,8W
work temperature	-25+50°C
connection	screw terminals 2,5mm <sup>2</sup>
dimensions	1 module (17,5 mm)
fixed	on rail TH-35

### WIRING DIAGRAM



A081211

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