

TIMING RELAYS
 10-function

PCS-516
 UNI

WARRANTY. The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a complaint can be found on the website:
www.fif.com.pl/reklamacja



Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.

PURPOSE

Lagged-pulse time relay PCS-516 is devised to support the power supply of the controlled receiver for a specified period of time after decay of the control voltage, e.g. in bathroom ventilation systems in which the upkeep of the fan operation (activated along with the lighting) is required for a specified period of time after turning off the accompanying lighting.

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.

(B)



DELAY DEACTIVATION

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

(C)



DELAY ACTIVATION - CYCLIC

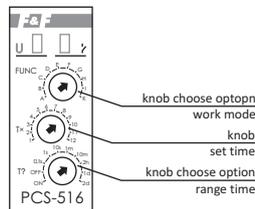
The DA operational mode is triggered in equal interruption/work cycles according to preset time values.

(D)



DELAY DEACTIVATION - CYCLIC

The DD operational mode is triggered in equal interruption/work cycles according to preset time values.



WORK TIME SETTINGS

By time range switch T- set one of chosen range and by time knob T× set value on the scale from 1 to 12. Product of this values equal work time „t” (e.g. t= 1m×7= 7 min).

SETTINGS OF WORK MODE

By choose option knob FUNC set one of functions (e.g. function A- delay activation).

WORK FUNCTIONS

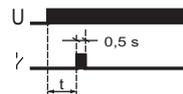
(A)



DELAY ACTIVATION

After the power voltage is supplied (green LED 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.

(E)



Generate impulse 0,5 s after set time „t”.

(F)



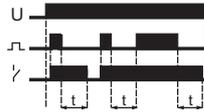
Generation of a single impulse of „t” time by the START signal eading edge. During preset time countdown, the system does not respond to START impulses.

(G)



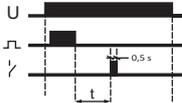
Generation of a single impulse of „t” time by the START signal trailing edge. During preset time countdown, the system does not respond to START impulses.

H



Delay in deactivation with support function enabled. The leading edge of the START signal results in relay activation, where as 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.

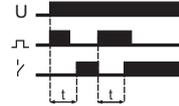
I



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 45s 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).

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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 work 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 11-12 position.

Setting the time range knob regulator in the:

- **ON** - position with power supply activated results in the permanent closure of the contact in position 11-12..
- **OFF** - position (power supply activated) causes the contact to be permanently closed in the position 11-10.

ASSEMBLY

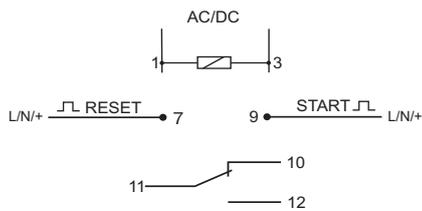
1. Take OFF the power.
2. Put on the relay in the switchgearbox.
3. Cables of power connect with diagram to contacts 1-3.
4. System of connected receiver connect in line to contacts 11-12.

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TECHNICAL DATA

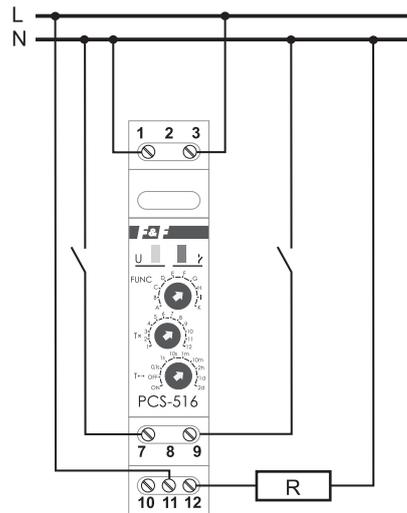
| | |
|-------------------------------|------------------------------------|
| supply | 12÷264V AC/DC |
| current load | <8A |
| contact | 1×NO/NC |
| work time | 0.1÷576h |
| activation lag delay function | <50 ms |
| power supply indicator | green LED |
| work mode indicator | red LED |
| power consumption | 0.8W |
| working temperature | -25÷50°C |
| connection | 2.5mm ² screw terminals |
| dimensions | 1 module (18 mm) |
| mounting | on TH-35 rail |
| protection level | IP20 |

WIRING DIAGRAM



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Example of connection with N control signals



D151217

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