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PCU-530

Time relay,
universal



5 1908312 1597599

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

The PCU-530 time relay is used for time control in industrial and home automation systems (such as : ventilation, heating, lighting, signaling, etc.)

Functions

OFF delay (A)

Until the relay is switched on, the contacts remain in position 5-4/
After the power supply voltage is applied (green LED [U] lit) the contacts switch to the 5-6/8-9/11-12 position and the set time 't' (red LED γ lit) starts running. After the time 't' has elapsed the contacts return to position 5-4/8-7/11-10. The relay can operate again after the supply voltage is disconnected and then switched on again.

ON delay (B)

Before and after the supply voltage is applied (green LED U illuminated) the contacts remain in position 5-4/8-7/11-10 and the set operating time ' t ' counts down. After the time ' t ' has elapsed the contacts switch to the position 5-6/8-9/11-12 (red LED γ on). Re-enactment of the relay operation mode is possible after switching off the supply voltage and switching it on again.

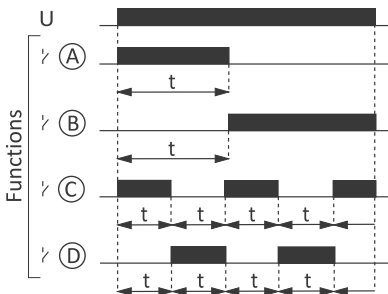
OFF delay – cyclic (C)

Delayed switch-off mode cycled at equal intervals of the set operating and break time.

ON delay – cyclic (D)

Delayed switch-on mode cycled at equal intervals of the set operating and break time.

Diagram





When the power supply of the relay is switched on, the system does not react to the change of time range and working time settings.



Operation with the newly set time range and operating mode takes place after the power supply is switched off and back on.



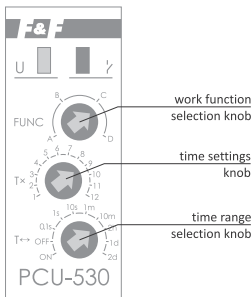
With the power supply switched on, it is possible to smoothly adjust the time within the time range of 1÷12.

Time ranges

0,1 s:	0.1÷1.2 sec	10 m:	10÷120 min.
1 s:	1÷12 sec	2 h:	2÷24 hours
10 s:	10÷120 sec	1 d:	1÷12 days (24÷288 h)
1 m:	1÷12 min.	2 d:	2÷24 days (48÷576 h)
ON	when the power supply is on, the relays are permanently on (contacts in the 8-9 and 11-12 positions, green LED and red LED on).		
OFF	when the power supply is on, the relays are permanently off (contacts in positions 8-7 and 11-10, LED green on, LED red off).		

Working time setting

Using the time range setting knob $T \leftrightarrow$, set one of the selected ranges, then using the time setting knob $T \times$, set the selected value on a scale from 1 to 12. The product of these values is equal to the operating time (for example: $1 \text{ m} \times 7 = 7 \text{ min.}$).



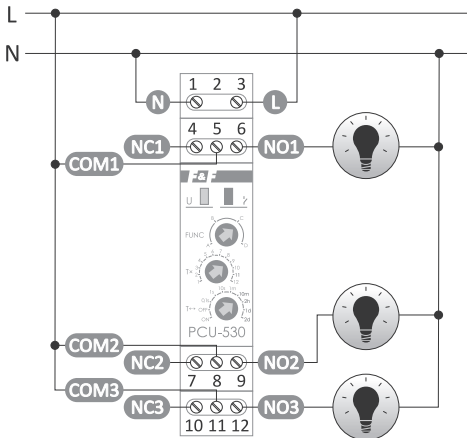
Working mode setting

Using the **FUNC** dial, set one of the functions (for example function A – off delay).

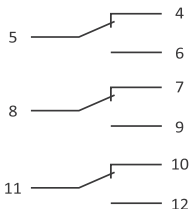
Mounting

1. Turn off the power supply.
2. Fix the relay on a rail in the switchboard.
3. Connect the power supply wires to terminals 1-3. Any polarity.
4. Connect the circuits of the consumers to be switched in series to terminals 5-6/8-9/11-12.
5. Set the desired operating time 't'.

Wiring diagram



Description of terminals



1-3	100÷264 V AC/DC power supply
5/8/11	contact power inputs
4/7/10	outputs: NC contacts (passive)
6/9/12	outputs: NO contacts (active)

Technical data

power supply	100÷264 V AC/DC
maximum load current (AC-1)	3×8 A
contact	separated 3×NO/NC
working time (adjustable)	0.1 s÷576 h
activation delay	<50 ms
power supply indication	green LED
contacts state indication	red LED
power consumption	0.8 W
terminal	2.5 mm ² screw terminals
tightening torque	0.4 Nm
working temperature	-25÷50°C
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

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.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

