



F&F Filipowski sp. j.
Konstantynowska 79/81, 95-200 Pabianice, POLAND
phone/fax (+48 42) 215 23 83 / (+48 42) 227 09 71
www.fif.com.pl; e-mail: biuro@fif.com.pl

PCR-513

Time relay
with delayed activation



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.



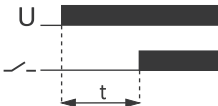
Purpose

The PCR-513 time relay is used for time control in industrial and home automation systems (such as: ventilation, heating, lighting, signaling, etc.).

Functioning

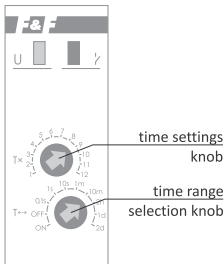
Operating mode: **ON delay**

After the supply voltage is switched on (the green LED "U" is on), the contact remains in position 11-10 and the set operating time counts down. After the preset time has elapsed, the contact switches to position 11-12 (the red LED γ is on). To execute the operating mode of the relay again you need to switch off the power supply voltage and switch it back on.



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: $1 \text{ m} \times 7 = 7 \text{ min.}$).



Time ranges

0.1 s:	0.1 ÷ 1.2 sec	10 m:	10 ÷ 120 min.
1 s:	1 ÷ 12 sec	2 h:	2 ÷ 24 h
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 contact is permanently closed in position 11-12.		
OFF	when the power supply is on, the contact is permanently closed in position 11-10.		



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.

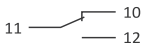
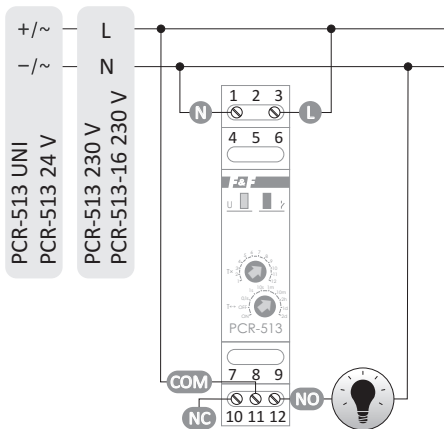


With the power supply switched on, it is possible to smoothly adjust the time within the time range of 1÷12.

Mounting

1. Turn off the power supply.
2. Fix the relay on a rail in the switchboard.
3. Connect the power supply wires (according with marks) to terminals 1-3.
4. Connect the power supply circuit of the receiver in series to terminals 11-12.
5. Use the knobs to set the operating time.

Wiring diagram



Description of terminals

230 V version:	1 (N), 3 (L)
24 V version:	1 (~/-), 3 (~/+)
UNI version:	1 (~), 3 (~)
1-3	relay power supply
11	contact power input
10	output: break contact (passive)
12	output: closing contact (active)

Technical data

power supply	195÷253 V AC
maximum load current (AC-1)	8 A
contact	separated 1×NO/NC
working time (adjustable)	0.1 sec÷576 h
activation delay	<50 msec
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
protection level	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 sp. j. 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.

«F&F»[®]