

Kopplingsur







14.

TIME CONTROLLERS

STP-541 PROGRAMMABLE CONTROLLER (LEFT/RIGHT activation mode)

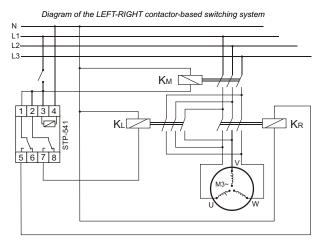
With four time settings available and a programmable number of repetitions or infinite work sequence in the "loop mode"

PURPOSE

The controller is used for technological process control in industrial automatic-control device systems which require temporal, cyclic and alternate activation of receivers with appropriate intervals between successive switchings.

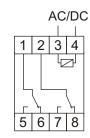
FUNCTIONING

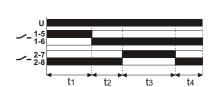
The controller works in compliance with a four-time sequence program and a preset number of cycles. A cycle is a sequence of four successive contact states.











supply	24÷264V AC/DC
current load	2×(<16A)
contacts	2×1N/C
time settings t1, t2, t3, t4 -	1sec÷ 99h 59min 59sec
time setting accuracy	1 sec
number of cycle repetitions	1 ÷ 999999
	or infinite in the "loop mode"
power consumption	1,5W
working temperature	-20÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm) on rail TH-35
fixing	on rail TH-35

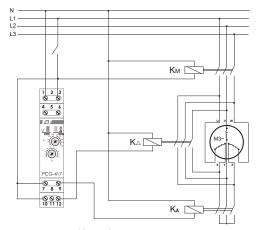
PCG-417 STAR-DELTA SWITCH

To control the STAR-DELTA contactor connection system.

FUNCTIONING

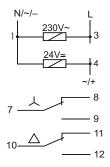
The PCG-417 relay is equipped with a special system of two electromagnetic relays which removes the risk of activating two connectors simultaneously, with each relay controlling a given connector. Once the system is switched from STAR to DELTA, one relay disconnects the "star" connector (a forced interval takes place). The other then activates the "delta" connector.

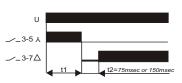
After the power supply is turned on, the contact 7-9 is closed and remains in this position for the preset start-up time t1. After the lapse of t1, contakt 7-9 opens and both contacts remain open for the time t2. After the lapse of t2, the contact 10-12 is closed and remains in this position until the power voltage is disconnected.



 K_M - main contactor K_\triangle - contactor "DELTA" K_A - contactor "STAR"







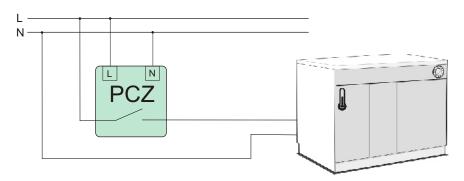
supply	230V AC / 24V AC/DC
current load	2×(<8A)
contact	2×1C/O
start-up time ⊀	1÷1000sec
switching time 🛆	75msec / 150msec
power consumption	0,8W
power supply indicator	green LED
action indicator	red LED
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	1 module (18mm)
fixing	on rail TH-35
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15. PROGRAMMABLE CONTROL TIMERS

PURPOSE

Programmable control timers are used to control the work time of devices included into industrial or household automatic systems in compliance with individual time schedule planned by the user.



ATTENTION!

Daylight Saving Time - automatic change function! (Concerns all types)

Time change from winter to summer occurs automatically at 2 a.m. On the last sunday of March by adding one hour to the current time.

Time change from summer to winter occurs automatically at 3 a.m. on the last sunday of October by taking away one hour from the current time.

ATTENTION! It is possibilities to switch-OFF of automatic change function.

WEEKLY CYCLES TYPE

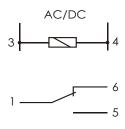
FUNCTIONING

The timer activates and deactivates a given device at preset hours in the following cycles: 24-hour, weekly, working day (Mon-Fri) or weekend (Sat, Sun).

PCZ-521

One-way type. 250 of program memory sectors.





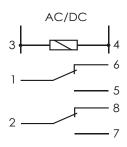
Supply	24+204 V AC/DC
current load	<16A
contacts	1C/O
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1sec/24h
schedule time accuracy item	1min
no. of program memory sector	ors 250
	(125 entry pairs: ON/OFF)
power consumption	1,5W
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm)
fixing	on raiÌ TH-35

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PCZ-522

Two-way type. 2×250 of program memory sectors. With two independent separately programmable ways.





supply	24÷264V AC/DC
current load	2×(<16A)
contacts	2×1C/O
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1sec/24h
schedule time accuracy item	1min
no. of program memory sector	rs 2×250
(2>	125 entry pairs: ON/OFF)
power consumption	1,5W
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm) on rail TH-35
fixing	on rail TH-35



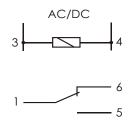
PULSE-TYPE PCZ-523

One-way type with two programme lines.

FUNCTIONING

The PCZ-523 activates a given device at a preset time and deactivates it after preset time (by pulse) in the following cycles: 24-hour, weekly, working day (Mon-Fri) or weekend (Sat, Sun). Pulse range: 1 sec. ÷ 99 min. 59 sec. The relay has been equipped with two independent switch able programme lines to control an connected receiver.







supply	24÷264V AC/DC
current load	<16A
contacts	1C/O
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1sec/24h
time accuracy item	1s÷99min59sec
schedule time accuracy item (p	
no. of program memory sectors	3 2×(125/per programme line)
power consumption	1,5W
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm)
fixing	on rail TH-35

ANNUAL TYPE

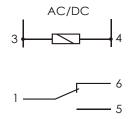
PCZ-529 One-way type

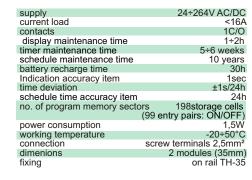
FUNCTIONING

Time control of devices in domestic or industrial automatic-control device systems according to internal time management program preset by the user. It allows a selection of the superordinate device responsible for seasonal cycles of an automatically controlled system. The timer activates and deactivates a given device to prescheduled dates in the annual cycle. Activation sequence available for a single, selected day of the year.

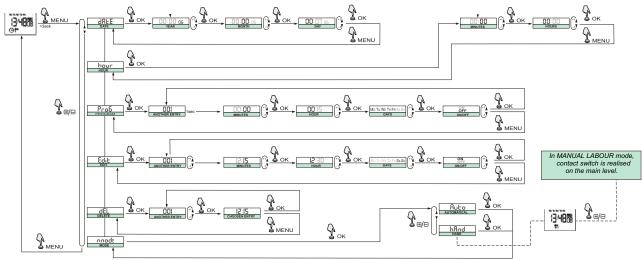








Easily programmable! Menu diagram and operational sequence for timer programming.



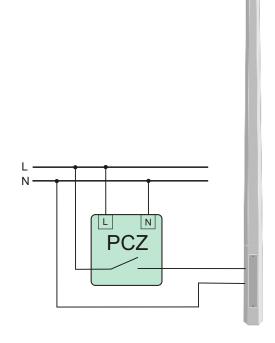


ASTRONOMICAL TYPE

FUNCTIONING

The astronomical timer activates and deactivates a device at certain hour, i.e. at sunrise and sunset. Should more settings that are precise be required for locations of different geographical co-ordinates, there is an option to set a given longitude and latitude or select a special code which entails automatic setting of these co-ordinates for a given place in Europe (list of locations and their codes may be found in the manual). Furthermore, there is an option to shift the preset activation/deactivation time for ±99 min. for sunrise and sunset times separately.

Code	City	°N	°E	City	Country
1	Praga	50 08	14 25	Prague	
2	Pilzno	49 47	13 22	Plzen	
3	Budejowice	48 58	14 29	Ceske Budejovice	호ㅣ
4	Brno	49 10	16 37	Brno	ပ္ပ
5	Olomouc	49 35	17 15	Olomouc	CZECHY
6	Ostrawa	49 51	18 19	Ostrava	0
7	Hradec Kralowe	50 13	15 49	Hradec Kralove	
8	Bratysława	48 08	17 05	Bratislava	d
9	Żylina	49 13	18 44	Zilina	31
10	Banska Bystryca	48 44	19 08	Banska Bystrica	≸
11	Poprad	49 03	20 17	Poprad	SŁOWACJA
12	Koszyce	48 43	21 15	Kosice	허
13	Budapeszt	47 30	19 04	Budapest	
14	Debrecen	47 33	21 37	Debrecen	≿l
15	Szeged	46 15	20 08	Szeged	51
16	Szombathely	47 13	16 37	Szombathely	WĘGRY
17	Gyor	47 40	17 38	Gyor	>
18	Wilno	54 42	25 17	Vilnius	
19	Kowno	54 54	23 53	Kaunas	∢
20	Kłajpeda	55 41	21 08	Klaipeda	LITWA
21	Poniewież	55 43	24 21	Panevezys	트
22	Szawle	55 56	23 18	Siauliai	-



ATTENTION!

Daylight Saving Time - automatic change function! (Concerns all types)

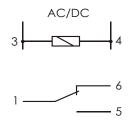
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Time change from summer to winter occurs automatically at 3 a.m. on the last sunday of October by taking away one hour from the current time.

ATTENTION! It is possibilities to switch-OFF of automatic change function.

PCZ-524 One-way type.





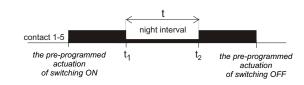
supply	24÷264 V AC/DC
current load	<16A
contacts	1C/O
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1sec/24h
schedule time accuracy item	1min
activation/deactivation time cor	rection ±0÷99min
schedule correction accuracy it	
power consumption	1,5W
working temperature	-25÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm)
fixing	on rail TH-35



WITH PROGRAMMEABLE NIGHT INTERVAL (PCZ-525.2, PCZ-526.2)

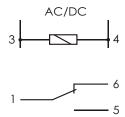
FUNCTIONING

Like PCZ-524.2. Another feature enables the user to set the so-called night interval between the pre-programmed actuation times, i.e. turning off the controlled receiver for a given period t (e.g. from 11 p.m. (t1) to 04.00 a.m. (t2)).



PCZ-525 One-way type.

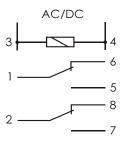




supply	24÷264V AC/DC
current load	<16A
contacts	1C/O
display maintenance time	non
timer maintenance time	6 years
schedule maintenance time	1sec
battery recharge time	±1sec/24h
indication accuracy item	1min
time deviation	±0÷99min
schedule time accuracy item	1min
activation/deactivation time corre	
schedule correction accuracy iter	
interval time setting range	-25÷50°C
	crew terminals 2,5mm ²
working temperature	2 modules (35mm) on rail TH-35
connection	on rail TH-35
dimensions	
fixing	

PCZ-526 Two-way type





supply	24÷264V AC/DC
current load	<16A
contacts	2x1C/O
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1sec/24h
schedule time accuracy item	1min
activation/deactivation time corre-	ction ±0÷99min
schedule correction accuracy iten	
interval time setting range	00:00÷24:00
power consumption	1,5W
working temperature	-25÷50°C
	rew terminals 2,5mm ²
dimensions	2 modules (35mm) on rail TH-35
fixing	on rail TH-35