TIME RELAY PCM-04/24V



Za/el



DESCRIPTION

The multifunctional time relav PCM-04/24V has a time function in automation and control systems. It is equipped with 10 independent operating modes released by power supply voltage or external impulse command (coming from L or N line). It has a wide time adjustment range and constant switch on/off function. The mode change is possible without waiting for the current cycle to be finished.

FEATURES

- 10 operating modes (external release or from power supply voltage),
- supply voltage control signal LED green,
- power/relay supply indicator and time measure - LED red.
- time measure accuracy,
- wide time adjustment range,
- constant switch on, switch off function
- voltage relay output 1 change over contact (NO/NC) contact max 16 A capacity,
- monomodular casing,
- TH 35 DIN rail installation.



The device is designed for one-phase installation and must be installed in accordance with standards valid in a particular country. The CAUTION device should be connected according to the details inc-

luded in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



The symbol stands for selective collection of electrical and electronic devices Placing used devices with other waste is not allowed

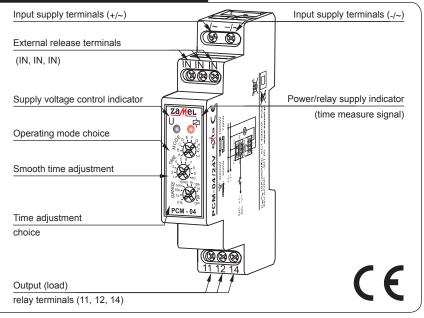
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TECHNICAL PARAMETERS

PCM-04/24V				
Input (supply) terminals:	-/~ , +/~			
Input rated voltage:	24 V AC/DC			
Input voltage tolerance:	from -15 to +10 %			
Supply voltage control indicator:	LED green			
Nominal frequency:	50 / 60 Hz			
Rated power consumption:	25 mA			
External release terminals:	IN, IN, IN (released from L or N)			
Release current:	510 µA			
Operating modes number:	10			
Time adjustment range t:	from 0,1s to 10days (step+smooth)			
Time measure accuracy:	0,2 %			
Power/relay supply indicator and time measure:	LED red			
Output relay parameters:	1NO/NC-16 A/250 V AC1 4000 VA			
Number of terminal clamps:	8			
Section of connecting cables:	from 0,2 to 2,50 mm ²			
Ambient temperature range:	from -20 to +60 °C			
Operating position:	free			
Mounting:	TH 35 rail (PN-EN 60715)			
Protection degree:	IP20 (PN-EN 60529)			
Protection class:	H			
Overvoltage category:	H			
Pollution degree:	2			
Rated impulse withstand voltage:	2 kV (PN-EN 61000-4-5)			
Dimensions (height / width / depth):	monomodular (17,5 mm) 90x17,5x66 mm			
Weight:	0,08 kg			
Reference standards:	PN-EN 60730-1 PN-EN 60730-2-7 PN-EN 61000-4-2,3,4,5,6,11			

APPEARANCE



MOUNTING

1. Disconnect the power supply from the mains by the phase fuse, the circuitbreaker or the switch-disconnector that are joined to the proper circuit, 2. Check if there is no voltage on connection cables by means of a special measure equipment, 3. Install PCM-04/24V device in the switchboard on TH 35 DIN rail, 4. Connect the cables with the terminals according to installing diagram, 5. Switch on the power supply from the mains. 6. Choose the required operating mode by Mode knob, 7. Adjust the time using the TIME knobs t = TIMEXRANGE. DIMENSIONS Û 6.2 35.3 CONNECTING ø L NØ +/~ Ø--/~ Ø-DC: +/-AC: ~/~ ø Ô E N IN IN 888 ×D Ś 1 PCM - 04 11 12 14 (¢ æ 11 12 14 ATTENTION! The release impulse

can by a signal from L or N line. The operating mode change (in any moment) causes an immediate zeroing of the measured time and starting the new chosen operating mode. Time adjustment choices are made without delay.

FUNCTIONING

		PO	wer supply vo	itage release:			
A ^E D ^B B- A	F F G H		L time measure	SWITCH ON DELAY - after the supply voltage [U] has been applied the time measure t starts. After the time is over the relay switches on (pos 11-14). The next switch on interval appears after power supply voltage reset.			
B-	E, F, G, H, J	B ¢ t t	output relay [R] [t] is measured	SWITCH OFF DELAY - after the supply voltage [U] has been applied, the output relay [R] switches on immediately (pos.11-14), and the preset time [t] is measured. After the preset time [t] has been measured, the output relay [R] returns to the initial state (pos.11-12).			
	E F G H	C [∪] <u>t t t t t t t</u>	After the supply starts. After the set time [t] is me relay [R] returns	FLASHER STARTING WITH OFF - (Starting from the switch off position). After the supply voltage [U] has been applied, the preset time [t] measurement starts. After the time [t] is over, the relay switches on (pos.11-14) and the pre- set time [t] is measured once more. After the preset time [t] is over, the output relay [R] returns to the initial state (pos.11-12), and the next operating cycle of the relay starts. The relay operates until the supply voltage is removed.			
	E F G H	Dÿ	 the supply voltage (pos.11-14) and over, the relays once more. After initial state, and 	FLASHER STARTING WITH ON - (Starting from the switch off position). After the supply voltage [U] has been applied, the relay is switched on immediately (pos.11-14) and the preset time [I] measurement starts. After the time [I] is over, the relay switches off (pos.11-12) and the preset time [I] is measured once more. After the preset time [I] is over, the output relay [R] returns to the initial state, and the next operating cycle of the relay starts. The relay operates until the supply voltage is removed.			
B-	EF G H	E ₽ + 05s	been applied th ches on (pos. 1	DELAY IMPULSE GENERATION 0,5 s - after the supply voltage [U] has been applied the time measure t starts. After the time is over the relay swit ches on (pos. 11-14) for 0,5s, next the relay is switched off (pos.11-12). The next switch on interval appears after power supply voltage reset.T.			
			External sign	al release:			
		F S t t	 has been appli the relay (pos. time t is over the 	GROWING MODULATED VOLTAGE VALUE – after the impulse release has been applied to the powered system (growing value) it switches or the relay (pos. 11-14), and starts to measure the preset time. After the time t is over the relay switches off (pos.11-12). Impulse time duration is not important here (pos.11-12).			
	F G H	G c	 on the relay af rement starts. wing time release 	FALLING MODULATED VOLTAGE VALUE - powered system switches on the relay after impulse release fades (pos. 11-14) and time measu- rement starts. The relay is switched off after time t is finished. The follo- wing time release fades during time measurement does not cause time measure from the beginning (no retriggerable).			
	E F GH	H ^S	the powered sy 12), the same, over the relay i is detected (fall asurement aga In case impuls	SWTCH ON/OFF DELAY - after the impulse release has been applied to the powered system (growing value) let the relay be switched off (pos.11- 12), the same, starts the preset time t measurement. After the time is over the relay is switched on (pos. 11-14). After the impulse release fade is detected (falling modulated voltage), the system starts preset time me- asurement again after it is finished the relay is switched off (pos.11-12). In case impulse duration is longer than the preset time t the relay is switched on for the t time only.			
	E, F, G, H		BISTABLE RELAY WITH TIME LIMIT - after the impulse release has been applied to the powered system (growing value) it switches on the relay (pos. 11-14), and starts to measure the preset time. The relay is switched off during the next impulse release (growing modulated voltage) or after time t is over if there was no such impulse occurrence. Impulse time dura- tion is not important for system operating.				
	E F G H	JS t	 (RETRIGGERA powered system the impulse rele starts preset tim switched off (pot 	ABLE) - after the im n (growing value) it s ase fade is detected ne measurement ag	SE VALUE WITH SWTCH OFF DELA' pulse release has been applied to the switches on the relay (pos. 11-14). Afte I (falling modulated voltage), the system ain and when it is finished the relay is pulse duration is longer than the prese t time only.		
U	¢	Diodes' function description	_	Time adjustment example <i>t</i>			
∗	0	Relay turned off time not counted down	M4 5 6 7 8	10min 1h 10h 10s - 11 10s - 0N 1s - 0N 0,1s OFF	t = TIME×RANGE,		
*	*	Relay turned on time not counted down	2-(t = 8 x 1 d = 8 d		
*	*	Relay turned off time counted down		10min 1h 0 1min 1 10h 2 10s - 11 2 1s - (t = TIME×RANGE,		
*	*	Relay turned on	- 2- (5)-9 1- (5)-9	2 105 0,15 0,15 0FF	$t = 3 \times 1 h = 3 h$		

GUARANTEE CARD

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There is 24 months guarantee on the product

1. ZMIE ZAMEL SP. J. assures 24 months guarantee for the product. 2. The manufacturer's guarantee does not cover any of the following actions:

- a) mechanical damage during transport, loading / unloading or under other circumstances,
 b) damage caused by incorrect product mounting or misuse,
 c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices analysis of the product functioning,
 d) damage caused by Act of God or any other incidents independent of the manufacturer.
 The PURCHASER shall lay any claims in writing to the dealer or ZMIE ZAMEL SP. J.
 ZMIE ZAMEL SP. J. is liable for processing any claim according to current Polish legislation.

 5. ZMIE ZAMEL SP. J. shall process the claim at its own discretion: product repair, replacement or money return.
 6. The manufacturer's guarantee is valid in the Republic of Poland.
 7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty

Salesman stamp and signature, date of sale_

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