

NEW



EAN code  
 PTRM-216TP/UNI: 8595188176033  
 PTRM-216KP/UNI: 8595188176026

Technical parameters	PTRM-216TP	PTRM-216KP
<b>Power supply</b>		
Power pins:	2, 10	
Voltage range:	AC/DC 12 – 240V (AC 50 – 60Hz)	
Power input (max.):	2.5 VA / 1.5 W	
Supply voltage tolerance:	±10 %	
Supply indication:	green LED	
<b>Time circuit</b>		
Number of functions:	10	
Time ranges:	50 ms - 30 days	
Time setting:	rotary switch and potentiometer	
Time deviation:*	5 % - mechanical setting	
Repeat accuracy:	0.2 % - set value stability	
Temperature coefficient:	0.01 % / °C, at = 20 °C (0.01 % / °F, at = 68 °F)	
<b>Output</b>		
Number of contacts	2x changeover / SPDT (AgNi)	
Current rating:	16 A / AC1	
Breaking capacity:	4000 VA / AC1, 384 W / DC	
Switching voltage:	250V AC / 24V DC	
Max. power dissipation:	2.4 W	
Output indication:	multifunction red LED	
Mechanical life:	10 000 000 operations	
Electrical life (AC1):	50 000 operations	
<b>Control</b>		
Control pins:	5 (2) - 6	
Impulse length:	min. 25 ms / max. unlimited	
Reset time:	max. 150 ms	
<b>Other information</b>		
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)	
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)	
Dielectrical strength:		
supply - output 1 (1, 3, 4)	2.5 kV AC	
supply - output 2 (8, 9, 11)	2.5 kV AC	
output 1 - output 2	2.5 kV AC	
Operating position:	any	
Mounting:	11 pin octal socket	
Protection degree:	IP40 from front panel	
Overvoltage category:		
for supply voltage	12-150V AC/DC III.	
for supply voltage	150-240V AC/DC II.	
Pollution degree:	2	
Dimensions:	48x48x79mm (1.7x1.7x3.1inch)	48x48x89mm (1.7x1.7x3.5inch)
Weight:	111 g (3.9 oz)	108 g (3.81 oz)
Standards:	EN 61812-1	

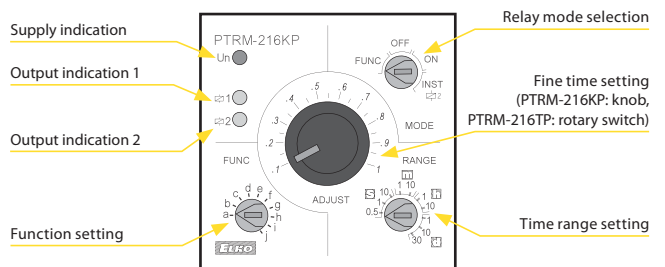
\* for adjustable delay <100 ms, a time deviation of ± 10 ms applies

**Function**

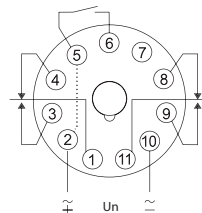
For a description of the functions on page 25.

- Multi-function time relay for universal use in automation, control and regulation or in house installations.
- Possibility to select the control element for fine time setting: PTRM-216KP - knob, for easy handling without the need for tools PTRM-216TP - rotary switch, for the possibility of using a sealable cover
- All functions initiated by the supply voltage, except for the flasher function, can use the control input to inhibit the delay (pause).
- Relay mode selection - according to the set function, permanently closed, permanently open, and switching of the second relay according to the supply voltage.
- Multifunction red LED flashes or shines depending on the operating status.

**Description**

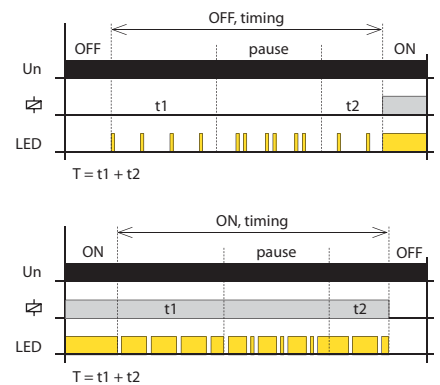


**Connection**



Pins 2 and 5 are internally connected.

**Indication of operating states**



**Relay mode selection**

**FUNC. Settings function mode**

The desired function a-j is set with the FUNC rotary switch.

**OFF. Relay open mode**



**ON. Relay closed mode**



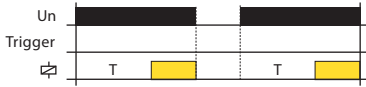
**Ø2 INST. Second relay instantaneous**



The second relay switches according to the supply voltage. The first relay switches according to the function (a-j) set by the trimmer FUNC.

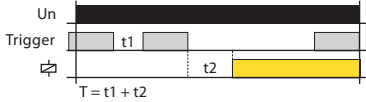
Function

a. ON DELAY



When the supply voltage is applied, the time delay T begins. When the timing is complete, the relay closes and this condition continues until the supply voltage is disconnected.

ON DELAY with Inhibit



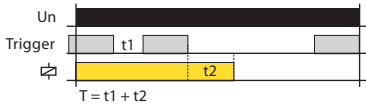
If the control contact is closed and the supply voltage is connected, the relay is opened and timing does not start until the control contact opens. When the timing is complete, the relay closes. If the control contact is closed during timing, the timing is interrupted and continues only after the control contact opens.

b. INTERVAL ON



After supply voltage relay closes and starts the delay time T. After the end of the timing relay opens and this state lasts until the supply voltage is disconnected.

INTERVAL ON with Inhibit



If the control contact is closed and the supply voltage is connected, the relay will close and the timing will start only after the control contact has been opened. When the timing is complete, the relay opens. If the control contact is closed during timing, the timing is interrupted and continues only after the control contact opens.

c. FLASHER - ON first



After supply voltage relay closes and starts the delay time T. After the end of the timing relay opens and again runs delay time T. When the timing is complete, the relay closes again and the sequence is repeated until the supply voltage is disconnected. If the control contact is closed during timing, this does not affect the operation of the cyclers.

FLASHER - OFF first



If the control contact is closed during timing; this does not affect the operation of the cyclers. If the control contact is closed and the supply voltage is connected, the cyclers starts with a pause (relay open).

d MEMORY LATCH



When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes. The status does not change when the control contact is opened. When the control contact is closed again, the relay opens. Each time the control contact is closed, the relay changes status.

e. OFF DELAY



When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes. When the control contact opens, the time delay T begins. If the control contact is closed during timing, the time is reset and the relay remains closed. When the control contact opens, the time delay T starts again and opens when the relay closes.

f. SINGLE SHOT



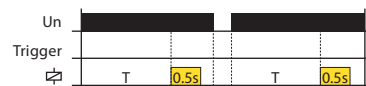
When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes and the time delay T begins. Closing the control contact during timing is ignored.

g. WATCHDOG



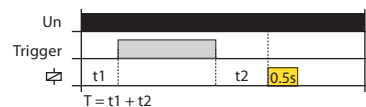
When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes and the time delay T begins. Closing the control contact during timing triggers a new time delay T - the relay closing time is thus increased.

h. PULSE GENERATOR 0.5 s



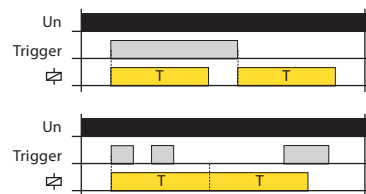
After the supply voltage has been applied, the time delay T begins. When the timing is complete, the relay closes for a fixed time (0.5 s).

PULSE GENERATOR 0.5 s with Inhibit



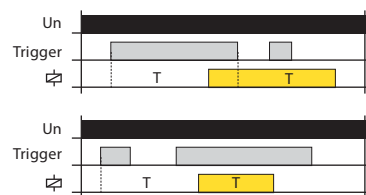
After supply voltage starts the time delay T. By closing timing of the control contact during timing is suspended. When the control contact opens, the time interval is completed and the relay closes for a fixed time (0.5 s).

i. INTERVAL ON / OFF



When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes and the time delay T begins. When the control contact is opened, the relay closes and the time delay T begins. If the control contact is open during timing, the relay remains closed for 2T. When the timing is complete, the relay opens. Any other change of control contact status during timing is ignored.

j. ON / OFF DELAY



When the supply voltage is applied, the relay is open. If control contact is closed, time delay T starts. When the control contact is opened, a new time delay T begins. If the control contact is open during timing, the relay closes at the end of the timing and opens the relay after the new time delay. Any other change of control contact status during timing is ignored.