

PTMF

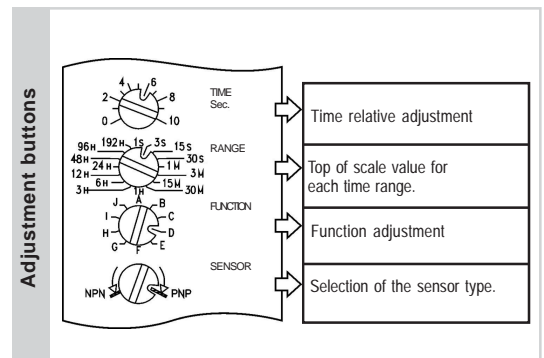
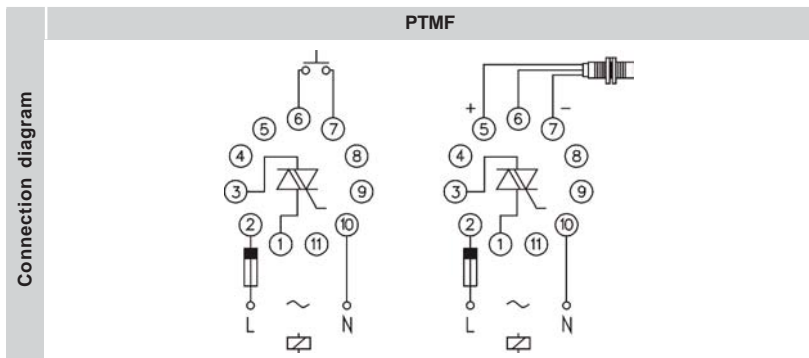


MULTITIMER

Difference	Multifunction - Multivoltage. Static output by triac.
Operating principle	Twelve functions selectable by rotary switch: A - Delay on operate B - Interval on operate I - Simetrical recycler starting by off J - Simetrical recycler starting by on A - Delay on operate with time storage, without memory C - Delay on operate by external input, when activate E - Delay on operate by external input, when deactivate G - Delay on operate by external input, when activate or deactivate B - Interval on operate with time storage, without memory D - Interval on operate by external input, when activate F - Interval on operate by external input, when activate or deactivate H - Interval on operate by external input, when activate or deactivate * (See detailed description of each function in rear page)
Leds indications	Power on: Green Relay on: Red
Repeating precision	± 1%
Precision	± 2%
Reset	By disconnecting the supply for longer than 60 ms
Sensor type	NPN or PNP, selectable in the front 10 mA / 24 VDC

Reference	HOUSING		FUNCTION		OUTPUT		SUPPLY		RANGE			
	P	Plug-in	T M	Multitimer	F	Static by triac	U24	24 VAC/DC	192	0,1..1 S	6..60 M	
							724	24 VDC			0,3..3 S	18..180 M
							024	24 VAC			1,5..15 S	0,6..6 H
							110	110..125 VAC			3..30 S	2,4..24 H
							230	220..240 VAC			6..60 S	4,8..48 H
							400	380..415 VAC			18..180 S	9,6..96 H
							901	15..70 VAC/DC			1,5..15 M	19,2..192 H
							902	60..240 VAC/DC			3..30 M	
Selection by rotary switch												

To compose the reference, select one option of each column. Example: PTMF U40 192

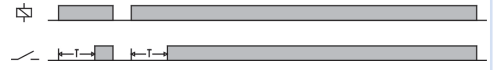


FUNCIONES Y DIAGRAMAS

DELAY ON OPERATE



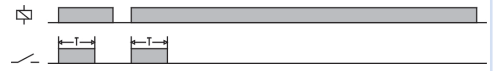
When the supply voltage is connected, the relay remains released and the time circuit starts up. After the pre-set time the relay operates. It remains in the condition an indefinite time.



INTERVAL ON OPERATE



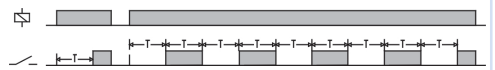
When the supply voltage is connected the relay operates immediately. After the pre-set time, the relay releases and remains so for an indefinite period of time.



SYMMETRICAL RECYCLER OFF/ON



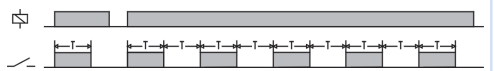
When the supply voltage is connected the time circuit starts up. After the pre-set time, the relay operates and stays on for the same period of time as the pre-set one. The cycle repeats itself non-stop.



SYMMETRICAL RECYCLER ON/OFF



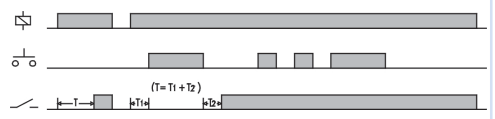
When the supply voltage is connected the relay operates immediately and the time circuit starts up. After the pre-set time, the relay releases and stays in this state for the same period of time as the pre-set one. The cycle repeats itself non-stop.



DELAY ON, WITH TIME STORAGE, WITHOUT MEMORY



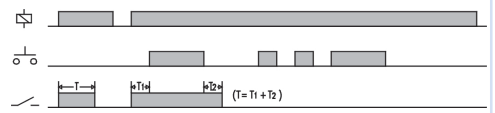
When the supply voltage is connected, the relay remains released and the time circuit is start up. If the external input is activated, the time circuit stops. When the external input is deactivated, the time circuits follows on. After the pre-ser time, the relay operates and remains so for an indefinite period of time. By disconnecting the suply voltage, the reset of the time and relay and relay is brought about.



INTERVAL ON, WITH TIME STORAGE, WITHOUT MEMORY



When the supply voltage is connected, the relay operates immediately and the time circuit starts up. If the external input is activated, the time circuit stops. When the external input is deactivated, the time circuit follows on. After the pre-set time, the relay releases and remains so for an indefinite period of time. By disconnecting the supply voltage, the reset of the time and the relay is brought about.

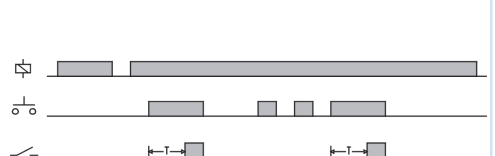


DELAY ON OPERATE, BY EXTERNAL INPUT



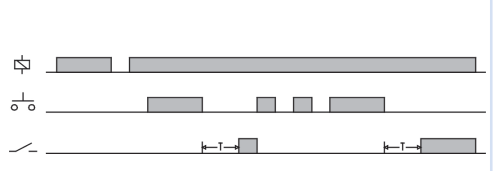
Timing while the input is activated

When the supply voltage is connected and the external input is not activated, this has no effect on the system. When the external input is activated, the relay remains released and the time circuit starts up. After the pre-set time the relay operates. If while time is running, the input is activated and deactivated for a shorter period than the pre-set time, the relay remains released.



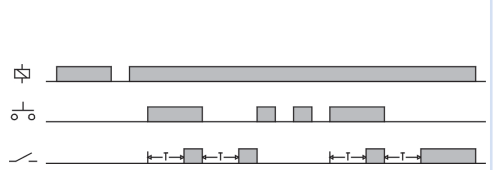
Timing when the input is deactivated

When the supply voltage is activated, this has no effect on the system with independence of the external input situation. When the input is activated, the relay remains released. When the input is deactivated, the time circuit starts up. After the pre -set the relay operates and remains so until the input is again activated or the supply voltage is disconnected. If while time is running the external input is activated and deactivated, the reset of the time circuit is brought about and the relay remains released.



Timing when the input is activated or deactivated

When the supply voltage is activated, this has no effect on the system with independence of the external input situation. When the input is activated, the relay remains released and the time circuit starts up. After the pre-set time the relay operates. When the input is deactivated, the relay releases and the time circuit starts up again. After the pre-set time, the relay operates. The succession of the input pulses with a cadence less than the pre-set time bring about the reset of the time and the relay.

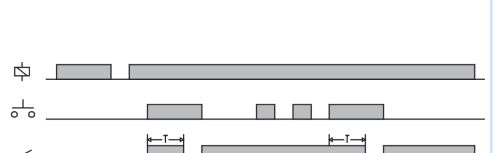


INTERVAL ON OPERATE, BY EXTERNAL INPUT



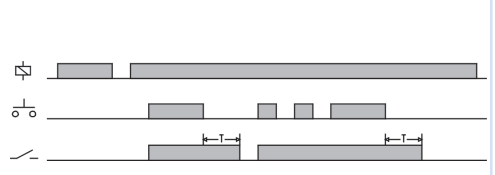
Timing while the input is activated

When the supply voltage is connected and the external input is deactivated, this has no effect on the system. When the external input is activated, the relay operates immediately and the time circuit starts up. After the pre-set time, the relay releases and remains so until the external input is deactivated. If while time is running, the input is activated and deactivated for a shorter period than the pre-set time, the relay remains operated.



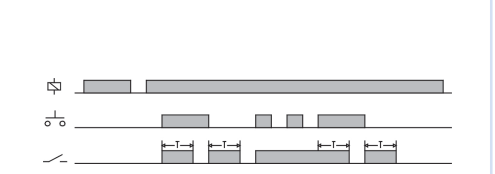
Timing when the input is deactivated

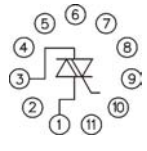
When the supply voltage is connected and the external input is activated, this has no effect on the system with independence of the external input situation. When the input is activated, the relay operates immediately. When the input is deactivated, the time circuit starts up. After the pre-set time the relay releases and remains so until the input is again activated. If while time is running the external input is activated and deactivated for a shorter time than the pre-set one, the relay remains operated.

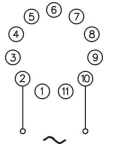
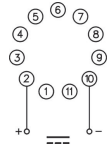
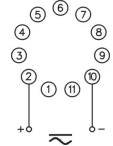


Timing when the input is activated or deactivated

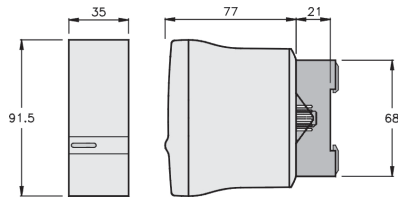
When the supply voltage is activated, this has no effect on the system with independence of the external input situation. When the input is activated, the relay operates immediately and the time circuit starts up. After the pre-set time the relay releases. When the input is deactivated, the relay operated immediately and the time circuit starts up. After the pre-set time the relay releases. The succession of input pulses with a cadence less than the pre-set time bring about the reset of the time and the relay.



Output	PTMF	
		
	Voltage	24..280 VAC
	Frequency	47..63 Hz
	Maximum current	4 A
Permanent current	2,5 A	

Supply	AC PTMF		DC PTMF		ACDC PTMF	
						
	Galvanic isolation	No	No	9XX: Yes ~ UXX: No		
	Frequency	50/60 Hz	-	-		
	Operating margins	± 15%	± 10%	-		
	Positive	-	Terminal 2	Terminal 2		
Protected polarity	-	Yes	Yes			

Constructive and environmental data	PTMF	
	Voltage phase-neutral	300 V
	Overvoltage category	III
	Rated impulse voltage	4 kV
	Pollution degree	2
	Protection	IP 20
	Approximate weight	270 g
	Storage temperature	-50°C..+85°C
	Operating temperature	-20°C..+50°C
	Humidity	30..85% HR
	Housing	Cycoloy - Light grey
	Socket	-
	Leds cover	Lexan - Transparent
	Button, terminal block, clip	Technyl - Dark blue
	Pins of the socket	-
	Pins of the terminal block	Brass
Approvals	Designed and manufactured under EEC standards. Electromagnetic compatibility, directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC. Plastics: UL 91 V0	

Dimensions	PTMF	
		

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