

## PTMA / PTMB DTMA / DTMB





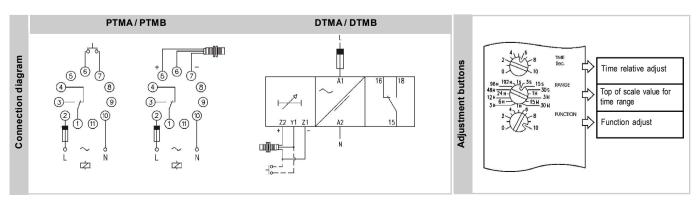


## MULTITIMER

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

	HOUSING		FUNCTION		OUTPUT SUPPLY		OUTPUT			RANG	E
Reference	P Plug-in D DIN rail	ТМ	Multitimer	A B	SPDT DPDT	U24 724 024 110 230 400 901 902	24 VAC/DC 24 VDC 24 VAC 110125 VAC 220240 VAC 380415 VAC 1570 VAC/DC 60240 VAC/DC	192	0,11 S 0,33 S 1,515 S 330 S 660 S 18180 S 1,515 M 330 M	660 M 18180 M 0,66 H 2,424 H 4,848 H 9,696 H 19,2192 H	

To compose the reference, select one option of each column. Example:  $\bf PTMA~U24~192$ 



## **FUNCTIONS AND DIAGRAMS**

	DELAY ON OPERATE			
J_A_B G_E	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.	中.	  T	<del>-</del>
	INTERVAL ON OPERATE			
	When the supply voltage is connected the relay operates inmediately. After the pre-set time, the relay releases and remains so for an indefinite period of time.	夕.	I—T—I	<u></u> -1-→
	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.	中 -	<b>⊢⊺→</b>	
	SYMMETRICAL RECYCLER ON/OFF			
	When the supply voltage is connected the relay operates inmediately and the time circuits 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.	中 -	<del>⊢</del> ⊺→	<u></u>
	DELAY ON, WITH TIME STORAGE, WITHOUT MEMORY			
G F E	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 desconnecting the suply voltage, the reset of the time and relay and relay is brought about.	₽. 		(T=T1+T2)
	INTERVAL ON, WITH TIME STORAGE, WITHOUT MEMORY			
G F E	When the supply voltage is connected, the relay operates inmediately 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 desconnecting the supply voltage, the reset of the time and the relay is brought about.	₽. 	<u> </u>	<u>μμη</u> (1= 11+12 )
	DELAY ON OPERATE, BY EXTERNAL INPUT			
G F E	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.	中 . 		<u></u>
J_ A _3	Timing when the input is deactivated			
G-F-E	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.	₽ . 		<u></u>
A 3 - C	Timing when the input is activated or deactivated			
G - E	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 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.	中 - - - -		<u> </u>
	INTERVAL ON OPERATE, BY EXTERNAL INPUT			
J_ 4 _B	Timing while the input is activated			
G C	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 inmeditely 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.	₽ .		<u> </u>
J_ A _ A	Timing when the input is deactivated			
G F E	When the supply voltage is connected and the external input is deactivated, this has no effect on the system. When the input is activated, the relay operates inmeditely. 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.	₽. 		-T-
A-3 c	Timing when the input is activated or deactivated			
H <sub>G</sub> F E	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 inmeditely and the time circuit starts up. After the pre-set time the relay releases. When the input is deactivated, the relay operated inmediately and the time circuit starts up. After the pre-set time the relay releases. The successionof input pulses with a cadence less than the pre-set time bring about the reset of the time and the relay remains operated.	\$ . 		

			PTMA	РТМВ	DTMA	DTMB		
			\$ <sup>6</sup> 7 4 8 3 9 2 0 0	\$ <sup>6</sup> 7 <del>4</del> 8 3 - 9 2 1 6	16 18	16 18 26 28		
		AC	10 A / 250 V	8 A / 250 V	10 A / 250 V	8 A / 250 V		
	Resistive load	l <sub>DC</sub>	0,4 A / 200 V	0,25 A / 200 V	0,4 A / 200 V	0,25 A / 200 V		
တ္			10 A / 24 V	8 A / 24 V	10 A / 24 V	8 A / 24 V		
<b>Output relays</b>		AC	5 A / 250 V	2,5 A / 250 V	5 A / 250 V	2,5 A / 250 V		
t re	Inductive load	DC	5 A / 24 V	4 A / 24 V	5 A / 24 V	4 A / 24 V		
텵	Mechanical life		> 30 x 10 <sup>6</sup>	operations	> 30 x 10 <sup>6</sup>	operations		
ō	Max. switching	rate, mech.	72.000 oper	rations / hour	72.000 operations / hour			
	Electrical life	e at full load	360 opera	tions / hour	360 operations / hour			
	Conf	tact material	AgNi	90/10	AgNi 90/10			
	Maxin	num voltage	440	VAC	440 VAC			
	Operating voltage		250	VAC	250 VAC			
	Volt. between changeovers		2500	) VAC	2500 VAC			
	Voltage between	en contacts	1000	) VAC	1000 VAC			
	Voltage	coil/contact	5000	) VAC	5000 VAC			
	Distance coil/contact		10	mm	10 mm			
	Isolation resistance		> 10	) <sup>4</sup> MΩ	> 10 <sup>4</sup> MΩ			

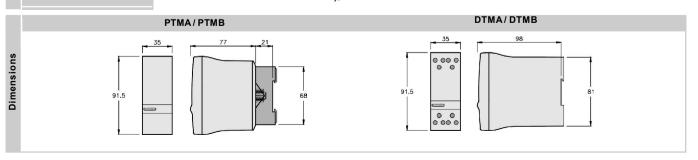
		Α	С	D	С	ACDC		
		PTMA / PTMB	DTMA / DTMB	PTMA / PTMB	DTMA / DTMB	PTMA / PTMB	DTMA / DTMB	
Supply		6 6 7 8 8 3 9 7 0 6	A1	6 6 7 4 8 3 9 7 0 0	A2	(5) (6) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	A2	
	Galvanic isolation	N	0	No		9XX: Yes UXX: No		
	Frequency	50/60	0 Hz		-		-	
	Operating margins	± 1:	5%	± 1	0%		-	
	Positive	-		Term	inal 2	Term	inal 2	
	Protected polarity	arity -		- Yes			Yes	

		PIMA/PIMB
	Voltage phase-neutral	300 V
	Overvoltage category	III
~	Rated impulse voltage	4 kV
data	Pollution degree	2
	Protection	IP 20
anviromental	Approximate weight	250 g
Ĕ	Storage temperature	-50°C+85°C
Ξ	Operating temperature	-20°C+50°C
an	Humidity	3085% HR
and	Housing	Cycoloy - Light grey
	Socket	Lexan - Light grey
Ě	Leds cover	Lexan - Transparent
5	Button, terminal block, clip	Technyl - Dark blue
Constructive	Pins of the socket	Nickel brass
ဝိ	Pins of the terminal block	

Approvals

DTMA/DTMB
300 V
III
4 kV
3
IP 20
280 g
-50°C+85°C
-20°C+50°C
3085% HR
Cycoloy - Light grey
-
Lexan - Transparent
Technyl - Dark blue
-
Brass
ıfactured under

Designed and manufactured under EEC standards. Electromagnetic compatibility, directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC.



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