



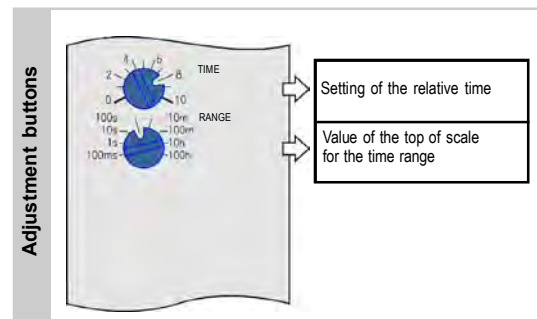
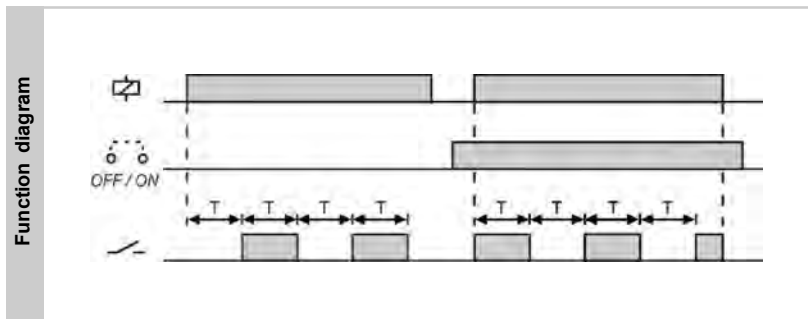
**PTWA / PTWB  
DTWA / DTWB**



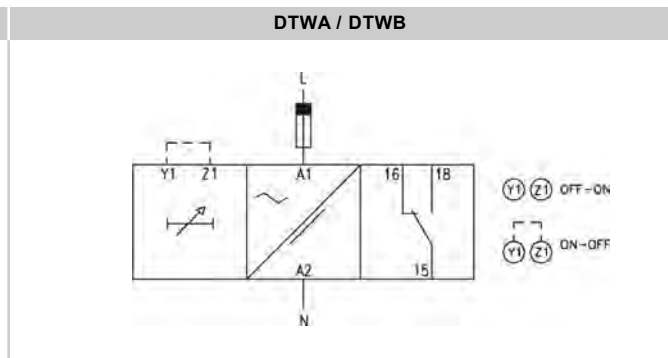
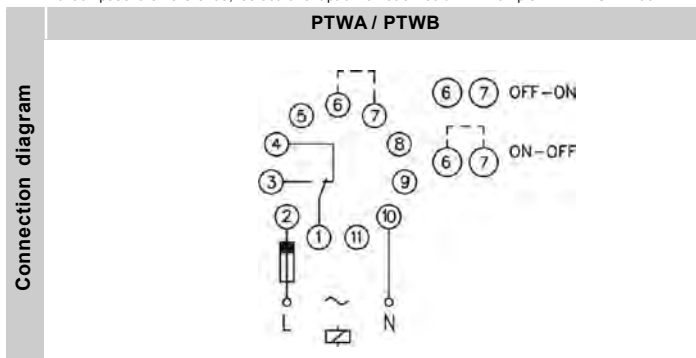
**SYMMETRICAL  
CYCLIC TIMER**

Difference	Single function - Multirange - Monovoltage.
Operating principle	<b>ON - OFF:</b> When the supply voltage is connected, the relay operates immediately, and the time circuit starts up. Once the preset time is elapsed, the relay releases, and the time circuit starts up again, repeating it indefinitely. <b>OFF - ON:</b> When the supply voltage is connected, the relay keeps on deactivated, and the time circuit starts up. Once the preset time is elapsed, then relay operates, and the time circuit starts up again, repeating it indefinitely.
Time range	From 10 ms to 100 h, divided in 8 ranges (see table <i>Reference</i> ).
Leds indications	Power on: Green Relay on: Red
Repeating precision	± 0,02%
Precision	± 0,6%. With supply voltages 901 o 902, ± 1,2%.
Power on	< 100 ms
Reset	By disconnecting the supply for longer than 20 ms
External input	- Free potential contact (terminals 6-7 [PTWx]; Y1-Z2 [DTWx]).
Adjustment mode	1 <sup>st</sup> - Select the range. The maximum value (top of scale) must be the nearest possible to the time you are going to set. 2 <sup>nd</sup> - Set the time according to the 0-10 relative scale. Example: If you want to set 45 seconds, select the range "10..100 s". In this case each division corresponds to 9 seconds, so you must place the "TIME" button in the "5". It is recommended to check the time and refine the adjustment if required.

	HOUSING	FUNCTION	OUTPUT	SUPPLY	RANGE	
Reference				<b>U24</b> 24 VAC/DC	10..100 ms	
				<b>724</b> 24 VDC	0,1..1 s	
				<b>024</b> 24 VAC	1..10 s	
	<b>P</b> Plug-in	<b>T W</b> Simmetrical cyclic	<b>A</b> SPST <b>B</b> SPDT	<b>110</b> 110..125 VAC	<b>100</b> 10..100 s	
	<b>D</b> DIN rail			<b>230</b> 220..240 VAC		1..10 min
				<b>400</b> 380..415 VAC		10..100 min
				<b>901</b> 15..70 VAC/DC		1..10 h
				<b>902</b> 60..240 VAC/DC		10..100 h



To compose the reference, select one option of each column. Example: **PTWA U24 100**



		PTWA	PTWB	DTWA	DTWB	
Output relays						
	Resistive load	AC	10 A / 250 V	8 A / 250 V	10 A / 250 V	8 A / 250 V
		DC	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V
	Inductive load	AC	5 A / 250 V	2,5 A / 250 V	5 A / 250 V	2,5 A / 250 V
		DC	5 A / 24 V	4 A / 24 V	5 A / 24 V	4 A / 24 V
	Mechanical life		> 30 x 10 <sup>6</sup> operations		> 30 x 10 <sup>6</sup> operations	
	Max. switching rate, mech.		72.000 operations / hour		72.000 operations / hour	
	Electrical life at full load		360 operations / hour		360 operations / hour	
	Contact material		AgNi 90/10		AgNi 90/10	
	Maximum voltage		440 VAC		440 VAC	
Operating voltage		250 VAC		250 VAC		
Volt. between changeovers		2500 VAC		2500 VAC		
Voltage between 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		

	AC		DC		ACDC	
	PTWA / PTWB	DTWA / DTWB	PTWA / PTWB	DTWA / DTWB	PTWA / PTWB	DTWA / DTWB
Galvanic isolation	4000 v		No		9XX: 2500 v ~ UXX: No	
Consumption	1,6 VA		1,2 W		9XX: 1,6 W ~ UXX: 1,7 W	
Frequency	50/60 Hz		-		-	
Operating margins	± 15%		± 10%		-	
Positive	Terminal 2	Terminal A1	Terminal 2	Terminal A1	Terminal 2	Terminal A1
Protected polarity	-		Yes		Yes	

	PTWA / PTWB	DTWA / DTWB
Voltage phase-neutral	300 V	300 V
Overvoltage category	III	III
Rated impulse voltage	4 kV	4 kV
Pollution degree	2	2
Protection	IP 20	IP 20
Approximate weight	250 g	270 g
Storage temperature	-50°C..+85°C	-50°C..+85°C
Operating temperature	-20°C..+50°C	-20°C..+50°C
Humidity	30..85% HR	30..85% HR
Housing	Cycloley - Light grey	Cycloley - Light grey
Socket	Lexan - Light grey	-
Leds cover	Lexan - Transparent	Lexan - Transparent
Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue
Pins of the socket	Nickel brass	-
Pins of the terminal block	-	Brass

Approvals  
 Designed and manufactured under EEC standards. Electromagnetic compatibility, directive **EMC 2004/108/CEE** (UNE-EN 61000 6-4/2007/A1:2011, UNE-EN 61000 6-2/2006). Electric safety, directive **LVD 2006/95/CEE** (UNE-EN-60204-1/2007/A1:2009; UNE-EN 61010-1/2011). Directive about certain hazardous substances **2011/65/CEE** de 8/06/2011 Pb, Hg, Cd, Cr+6, PBB, PBDE. Plastics: **UL 91 V0**.

	PTWA / PTWB	DTWA / DTWB
Dimensions		