

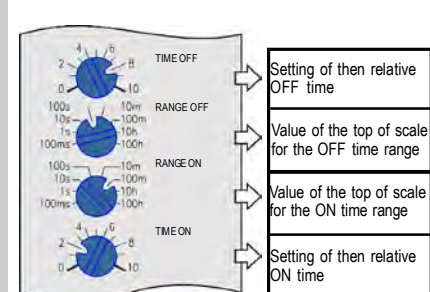
PTSA DTSA



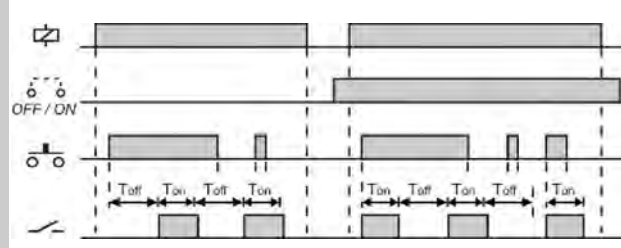
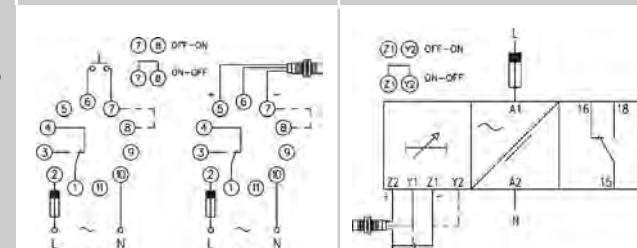
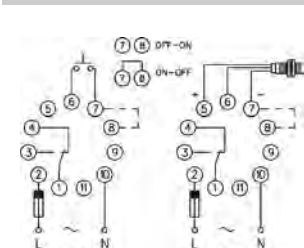
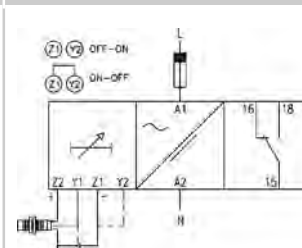
ASYMMETRICAL CYCLIC TIMER WITH AN EXTERNAL INPUT

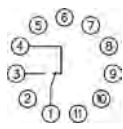
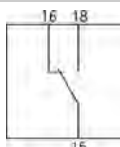


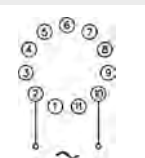
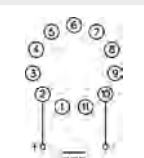
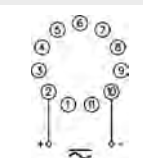
Difference	Single function - Multirange - Monovoltage.
Operating principle	<p>When the supply voltage is connected, there is no effect on the system.</p> <p>OFF-ON: When the input is activated, the relay remains desactivated and the circuit time starts up. Once the preset OFF command time is elapsed the relay operates, and the circuit time starts up.. Once the preset ON command time is elapsed the relay releases.</p> <p>ON-OFF: When the input is activated, the relay operates immediately, and the circuit time starts up. Once the preset ON command time is elapsed the relay releases, and the circuit time starts up.. Once the preset OFF command time is elapsed the relay releases.</p> <p>The cycle repeats while the external input is activated.</p> <p>Once the external input is desactivated, the actual cycle finish up.</p> <p>If the external input is activated while a cycle is finishing, the system don't starts up another one.</p>
Time range	From 10 ms to 100 h, divided in 8 ranges (see table <i>Reference</i>).
Leds indications	<p>Power on: Green</p> <p>Relay on: Red</p>
Repeating precision	$\pm 0,02\%$
Precision	$\pm 0,6\%$. With supply voltages 901 o 902, $\pm 1,2\%$.
Power on	< 100 ms
Reset	By disconnecting the supply for longer than 20 ms
External input	<p>- Free potential contact (terminals 6-7 [PTSA]; Y1-Z1 [DTSA]).</p> <p>- Sensor NPN o PNP, 10 mA / 24 VCC (terminals 5-6-7 [PTSA]; Y1-Z1-Z2 [DTSA]).</p> <p>Minimum pulses frequency: 6ms</p>
Adjustment mode	<p>Repeat the sequence for the ON command and for the OFF command.</p> <p>1st - Select the range. The maximum value (top of scale) must be the nearest possible to the time you are going to set.</p> <p>2nd - Set the time according to the 0-10 relative scale.</p> <p>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.</p>

Reference	HOUSING		FUNCTION		OUTPUT		SUPPLY		RANGE		Adjustment buttons
	P D	Plug-in DIN rail	T S	Asimmetrical cyclic timer with an external input	A	SPDT	100	U24	24 VAC/DC	10..100 ms	
								724	24 VDC	0,1..1 s	
								024	24 VAC	1..10 s	
								110	110..125 VAC	10..100 s	
								230	220..240 VAC	1..10 min	
								400	380..415 VAC	10..100 min	
								901	15..70 VAC/DC	1..10 h	
								902	60..240 VAC/DC	10..100 h	
											

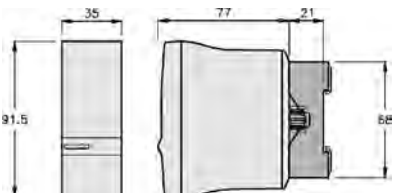
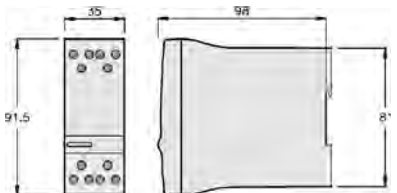
To compose the reference, select one option of each column. Example: **PTSA U24 100**

Function diagram	PTSA		DTSA	
				
Connection diagram				

Output relays	PTSA		DTSA	
				
	Resistive load	AC	10 A / 250 V	
		DC	0,4 A / 200 V	
	Inductive load	AC	10 A / 24 V	
		DC	5 A / 250 V	
	Mechanical life		> 30 x 10 ⁶ operations	
	Max. switching rate, mech.		72.000 operations / hour	
	Electrical life at full load		360 operations / hour	
	Contact material		AgNi 90/10	
Supply	Maximum voltage		440 VAC	
	Operating voltage		250 VAC	
	Volt. between changeovers		2500 VAC	
	Voltage between contacts		1000 VAC	
	Voltage coil/contact		5000 VAC	
	Distance coil/contact		10 mm	
	Isolation resistance		> 10 ⁴ MΩ	

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

Constructive and enviromental data		PTSA	DTSA
	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	Cycoloy - Light grey	Cycoloy - 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 sustances 2011/65/CEE de 8/06/2011 Pb, Hg, Cd, Cr+6, PBB, PBDE. Plastics: UL 91 V0 .		

Dimensions	PTSA		DTSA	
				

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