

# PTBA DTBA

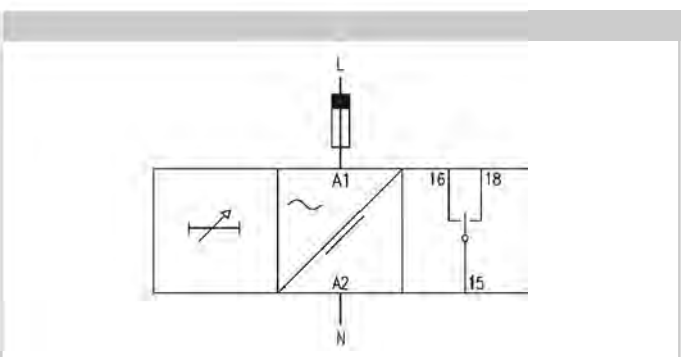
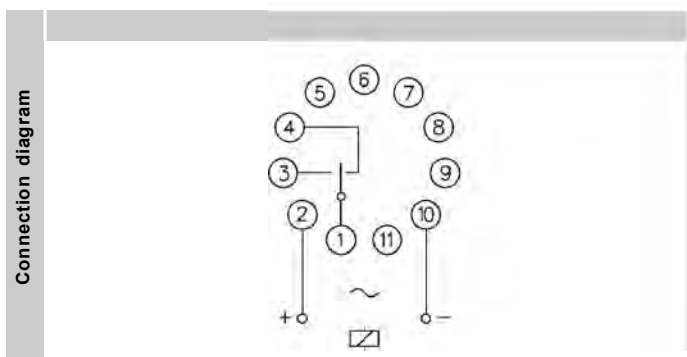
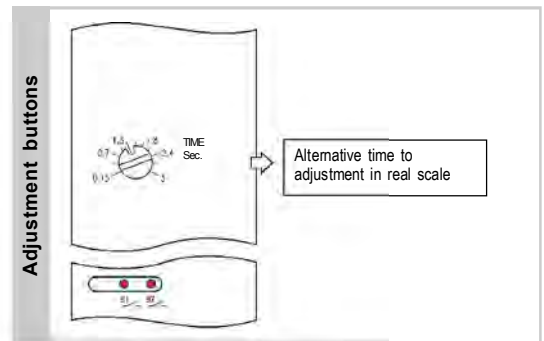
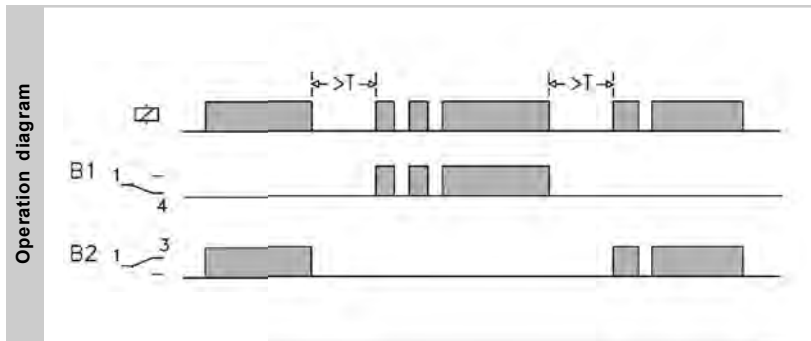


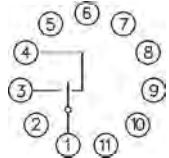
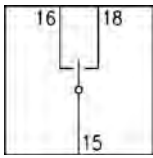
## TIMER FOR TWO PUMPS ALTERNATIVE CONTROL

Function	Alternative control of two pumps.
Differential character	The voltage that feeds the relay PTBA / DTBA is provided by the system that controls the level of liquid in the container, either a level control relay, a magnetic switch, float switches, etc.
Operating principle	When connecting the power supply relay is activated contrary to that activated in the last maneuver. When disconnecting the power supply, the relay is deactivated and the time circuit starts up. If you connect the power supply before the preset time elapses, it activates the relay. If you connect the power supply after a preset time elapses, the relay is activated otherwise. This alternation is repeated cyclically.
Connection time	For a correct move, the voltage must be connected for: - Standard Voltages: 600 ms - Multivoltage 901 (15 .. 70 VACDC): 900 ms - Multivoltage 902 (60 .. 240 VDC): 700 ms
Pumps connection	The contactor of each of the two pumps should be operated by each of the relay contacts 3-4 (PTBA) or 16-18 (DTBA).
Leds indication	A red led for each relay on (B1 and B2).
Repetibility	± 1%
Precision	± 10%
Reset	Removing power for a time exceeding the set time.

Reference	HOUSING	FUNCTION	OUTPUT	VOLTAGE	RANGE
	P Plug inn D Rail DIN	T B Alternative control to pumps	A 2 NA	<b>U24</b> 24 VAC/DC <b>724</b> 24 VDC <b>024</b> 24 VAC <b>110</b> 110..125 VAC <b>230</b> 220..240 VAC <b>400</b> 380..415 VAC <b>901</b> 15..70 VAC/DC <b>902</b> 60..240 VAC/DC	<b>3S</b> 0,15..3 S

To compose the reference, select a option of each column. Example: **PTBA 230 3S**



		PTBA		DTBA	
					
Output relays	Resistive load	AC	6 A / 250 V	6 A / 250 V	
		DC	0,2 A / 200 V 6 A / 24 V	0,2 A / 200 V 6 A / 24 V	
	Inductive load	AC	3 A / 250 V	3 A / 250 V	
		DC	0,12 A / 200 V 3 A / 24 V	0,12 A / 200 V 3 A / 24 V	
	Mechanical life		> 30 x 10 <sup>6</sup> operations		
	Max. switching rate, mech.		72.000 operations / hour		
	Electrical life at full load		360 operations / hour		
	Contact material		AgNi 90/10		
	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 <sup>4</sup> MΩ		

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

Constructive and environmental data	PTBA		DTBA	
	Voltage phase-neutral	300 V	300 V	
	Overtoltage category	III	III	
	Rated impulse voltage	4 kV	4 kV	
	Pollution degree	2	3	
	Protection	IP 20 B	IP 20	
	Approximate weight	250 g	280 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	Cyclopy - Light grey	Cyclopy - 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	Nickled brass	-		
Pins of the terminal block	-	Brass		

Designed and manufactured under EEC normative.

Directives referred:

Electromagnetic compatibility: **EMC 2004/108/EEC**. Low voltage: **LVD 2006/95/EEC**.

Hazardous substances: **2011/65/EEC** Plastics: **UL 91 V0**

Dimensions	PTBA		DTBA	
	