

PNVB



LEVEL CONTROL OF ONE PUMP

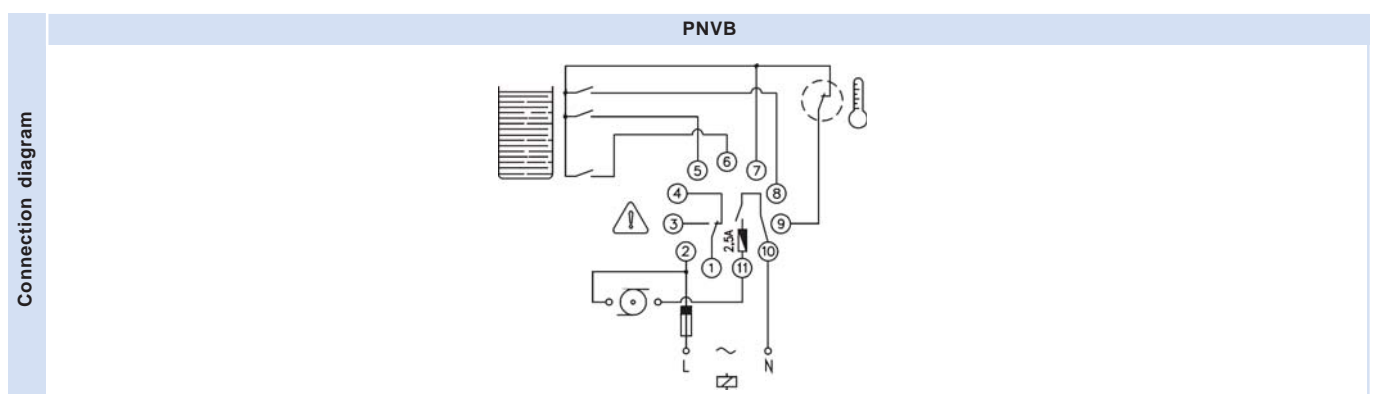
Function	Control of one pump. Selection modes: Stop - automatic - manual.
Operating principle	<p>Switch in 0 position: No operation is possible.</p> <p>Switch in MAN position: By selecting this position, the pump relay operates and releases in the opposite case.</p> <p>If the external thermal protector (safety device) detects a failure, the pump relay releases.</p> <p>Switch in AUTO position: When the liquid reaches the maximum level, the pump relay operates and releases when the liquid goes under the minimum level.</p> <p>When the liquid reaches the alarm level, the alarm relay operates and release in the opposite case. In this position, the action of the thermal protector (safety device) do not causes any effect in the system.</p>
Sensors	Any level sensor with potential free contacts.
Contacts	Pump relay: SPDT (8 A) Alarm relay: SPST NO (8 A)
Indications leds	Power on (green) Relay on (red) Levels (yellow) Safety devices (red)

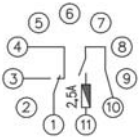
	HOUSING	FUNCTION	OUTPUT	SUPPLY
Reference	P Plug-in	NV Double level	B 1 SPDT 1 SPST NA	024 24 VAC 048 48 VAC 110 110..125 VAC 230 220..240 VAC 400 380..415 VAC

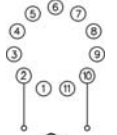
To compose the reference, select one option of each column. Example: **PNVB 048**

Operating diagram

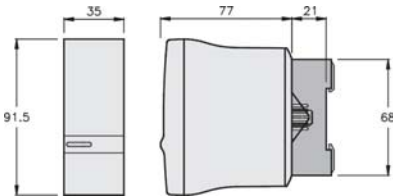
Adjustment buttons



Output relays	PNVB	
		
	Resistive load	AC
		8 A / 250 V
	Inductive load	DC
		0,25 A / 200 V
		AC
		8 A / 24 V
		DC
		2,5 A / 250 V
		DC
		4 A / 24 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	
	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	
	PNVB	
		
	Galvanic isolation	
	Yes	
	Frequency	
	50 / 60 Hz	
	Operating margins	
	±10...-15%	
	Positive	
	-	
	Protected polarity	
	-	

Constructive and anviromental data	PNVB	
	Voltage phase-neutral	300 V
	Overvoltage category	III
	Rated impulse voltage	4 kV
	Pollution degree	2
	Protection	IP 20 B
	Approximate weight	250 g
	Storage temperature	-50...+85°C
	Operating temperature	-20...+50°C
	Humidity	30...85% HR
	Housing	Cycoloy - Light grey
	Socket	Lexan - Light grey
	Visor leds	Lexan - Transparent
	Button, terminal block, clip	Technyl - Dark blue
	Pins of the socket	Nickel-plated brass
	Pins of the terminal block	-
	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	PNVB	
		

Rev. 01 - 18/01/08 - DISIBEINT reserves the right to modify the specifications stated in this document without previous notice