

PNVB



LEVEL CONTROL OF ONE PUMP

Function	Control of one pump. Selection modes: Stop - automatic - manual.
Operating principle	Switch in 0 position: No operation is possible. Switch in MAN position: By selecting this position, the pump relay operates and releases in the opposite case. If the external thermal protector (safety device) detects a failure, the pump relay releases. 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. 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.
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

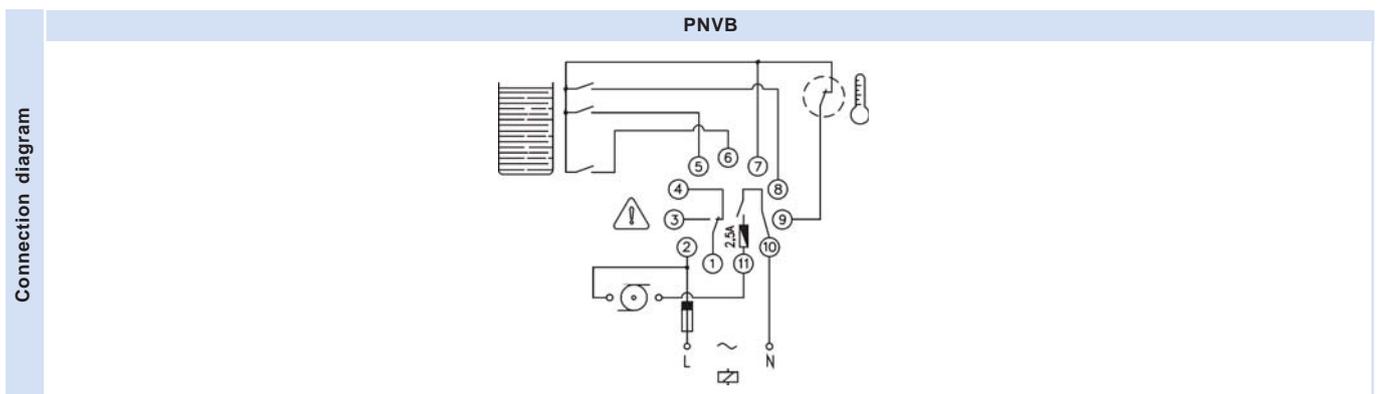
Level indication for the alarm state

Level indication for then maximum level

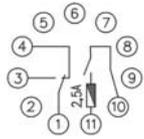
Level indication for the minimum level

Operating

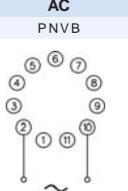
- AUTO (Switch)
- STOP
- MANUAL (Push button)



		PNVB	
Output relays	Resistive load	AC	8 A / 250 V
		DC	0,25 A / 200 V 8 A / 24 V
	Inductive load	AC	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	



		AC PNVB	
Supply	Galvanic isolation	Yes	
	Frequency	50 / 60 Hz	
	Operating margins	±10..-15%	
	Positive	-	
	Protected polarity	-	



		PNVB	
Constructive and environmental data	Voltage phase-neutral	300 V	
	Overtoltage 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		

		PNVB	
Dimensions			

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