

PNEA DNEA





LEVEL CONTROL RELAY FOR HIGH RESISTIVITY LIQUIDS

Field of application · Suitable for high resistivity liquids: destilled waters, demineralizated waters, etc.

· Filling or emptying control.

Operating principle Max. and Min. control. The relay operates when the liquid level is below the minimum electrode FILLING (6:PNEA; Y1:DNEA) and releases when the liquid level is above the maximum electrode (5:PNEA;

Y2:DNEA).

Max. or Min. control. The relay operates when the liquid level is below the electrode (5-6:PNEA; Y1/Y2:DNEA) and releases when the liquid level is above the electrode (5-6:PNEA; Y1/Y2:DNEA).

Operating principle Max. and Min. control. The relay operates when the liquid reaches the maximum level electrode **EMPTYING** (5:PNEA; Y2:DNEA) and releases when it goes below the minimum level electrode (6:PNEA;

Y1:DNEA).

Max. or Min. control. The relay operates when the liquid reaches the electrode (5-6:PNEA; Y1/

Y2:DNEA) and releases when it goes below the electrode.

Leds indication Power on: Green

Relay on: Red

Normal: From 10..100 K Ω Sensitivity

High: From 200KΩ..4M7

Voltage in probes line 24 VAC

Current in probes line 4mA (in shortcircuit)

Probes connection

Usually 1..2,5 mm² section cables are used, with good insulation and without shielding. In cables some installations (when the supply and probe lines are parallel in the same tube and with long

distances) shielded cable is recommended. The resistance between cables and ground must

be at least 200 K Ω . The screen is connected to ground.

common electrode

Connection of the If the tank is not conductive, an additional probe must be fitted for connecting the common

electrode, terminal 7(PNEA) or Z1 (DNEA).

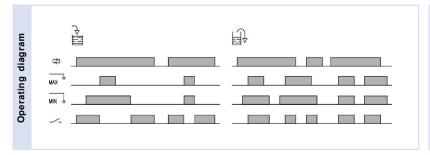
Resist. cables/ground

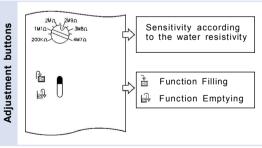
Probes cable length No especification detailed.

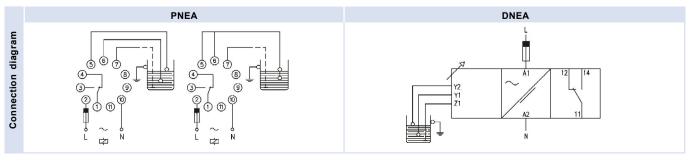
> 200KΩ

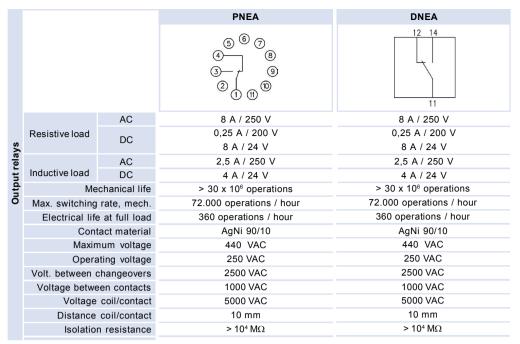
	HOUSING		FUNCTION		OUTPUT		SUPPLY		RANGE		
Reference	P D	Plug-in DIN rail	NE	Level control to high sensibility	A	1 NANC	024 230	24 VAC 220230 VAC	100 4M7	10ΚΩ100ΚΩ 200ΚΩ4M7	

To compose the reference, select one option of each column. Example: PNEA 230 4M7



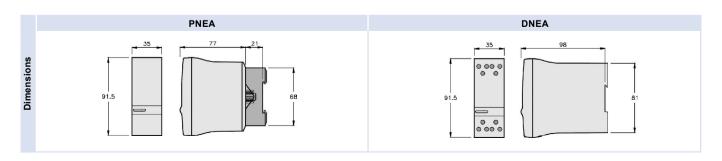




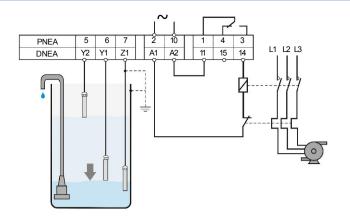


			•	
		AC PNEA DNEA		
			DNEA	
Supply		6 0 0 6 8 3 9 0 0	A2 N	
Ñ	Galvanic isolation	Yes		
	Consumption	1,6 VA		
	Frequency	50 / 60 Hz		
	Operating margins	±1015%		
	Positive	-		
	Protected polarity	-		

		PNEA	DNEA			
	Voltage phase-neutral	300 V	300 V			
	Overvoltage category	III	III			
	Rated impulse voltage	4 kV	4 kV			
ıta	Pollution degree	2	3			
l da	Protection	IP 20 B	IP 20			
Constructive and anviromental data	Approximate weight	250 g	280 g			
me	Storage temperature	-50+85°C	-50+85°C			
<u>2</u>	Operating temperature	-20+50°C	-20+50°C			
Ě	Humidity	3085% HR	3085% HR			
٦٥	Housing	Cycoloy - Light grey	Cycoloy - Light grey			
ea	Socket	Lexan - Light grey	-			
Ě	Visor leds	Lexan - Transparent	Lexan - Transparent			
5	Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue			
nst	Pins of the socket	Nickel-plated brass	-			
S	Pins of the terminal block	-	Brass			
	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				



EXAMPLES OF CONNECTIONS

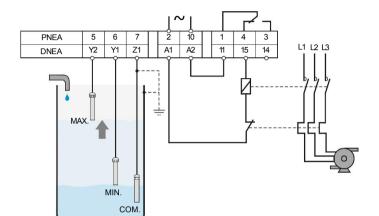


Emptying control

Selector in position



The relay maintains the level between upper and lower electrodes. When the liquid reaches the top electrode is placed on the pump will stop when the liquid falls below the minimum electrode.



Filling control

Selector in position



The relay maintains the level between upper and lower electrodes. The filling pump starts when the liquid is below the minimum electrode and stop when the liquid reaches the top electrode.

LEVEL SENSORS FOR CONDUCTIVE LIQUIDS

- · Compact and electrode holder exclusive use electrodes in conductive liquids. Control points are used to separate or combined level including wells and reservoirs of different height.
- · They need to connect to a level relay for conductive liquids.
- · The number of electrodes is determined by the chosen relay function.

Follow these links for:



Further information on the level sensors

Know the installation conditions of the conductive level relays



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