

## PNHA DNHA





Field of application · Control of two independent tanks

· Control of two pumps with stop at an only level

· Control of level and an alarm of maximum or minimum.

Character differential It is composed of two independent controls of level with a relay (contacts NC) associated to each one of them. They can work of individual form or related among them (see the application

examples in page 2).

Principle of operation Control of maximum and minimum level: Relay 1 activates when the level of the liquid reaches

the electrode of maximum level (5:PNHA - Y2:DNHA) and it is deactivated when the liquid

descends below the electrode of minimum level (6:PNHA -Y1:DNHA).

Relay 2 activates when the level of the liquid reaches the electrode of maximum level (9:PNHA - Y4:DNHA) and it is deactivated when the liquid descends below the electrode of minimum level

(8:PNHA - Y3:DNHA).

Control of maximum or minimum level: The terminals of maximum and minimum electrodes have

to be linked (Relay 1: 5-6:PNHA; Y1-Y2:DNHA) (Relay 2: 8-9:PNHA; Y3-Y4:DNHA).

The relay activates when the liquid level reaches the electrode and it is deactivated when it

descends below the same one.

Leds indicating Supply voltage: Green

Relays activated: Red

Current in soundings 24 VCA

Tension in soundings 4 mA (in short circuit).

Characteristic of the Normally are used cables from 1..2.5 mm<sup>2</sup> of section with a good isolation and without screening. cable of soundings In some installations, when the supply and the probe lines are parallel in the same tube and

with long distances, it is recommendable to use shielded cable. The resistance between cables

and ground must at least be of  $200K\Omega$ . The screen is connected to ground.

common electrode electrode, terminal 7(PNGA) or Z1 (DNHA).

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

Length cable sound. Without certain specification.

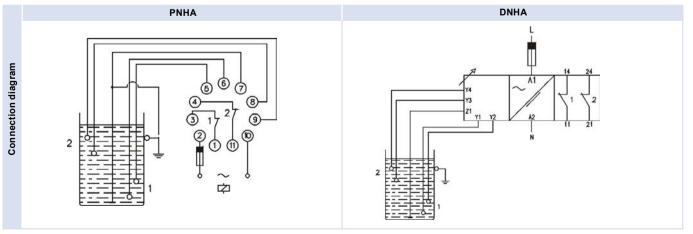
Accessory Electrodes: NS, NR 43650, NRA 43650, NR, NRA, NT, NRP, NP, NRT2.

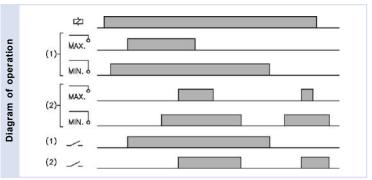
Separators of electrodes: NR.SEP, NRA.SEP Nuts of attachment: NR.TUE/P, NR.TUE/T

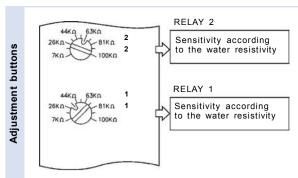
Protective of surge: PS-3

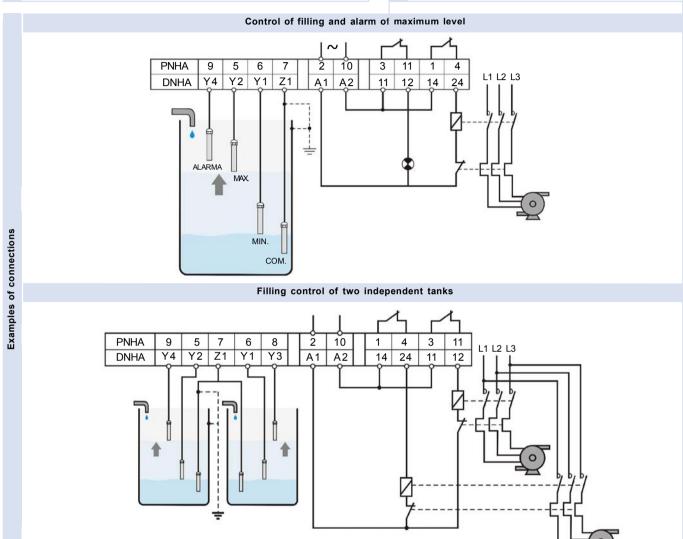
		вох		FUNCTION		OUT PUT		TENSION		RANGE
Reference	P D	Plug-in Rail DIN	NH	Double level	A	2 NO	048 110 230	24 VAC 48 VAC 110125 VAC 220240 VAC	100	10100 ΚΩ
							400	380415 VAC		

In order to compose the reference, to select an option of each one of the columns. Example: PNHA 230 100





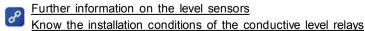




## LEVEL SENSORS FOR CONDUCTIVE LIQUIDS

- · 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:

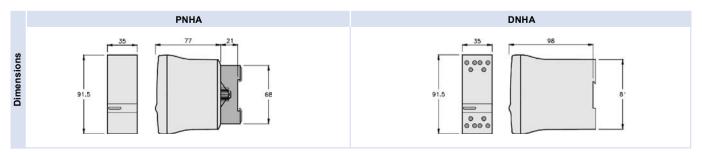




			PNHA	DNHA		
			(5) (6) (7) (8) (3) 17 27 (9) (2) (1) (10)	12 22		
	Resistive load	AC	10 A / 250 V	10 A / 250 V		
		DC	0,4 A / 200 V	0,4 A / 200 V		
ıys			10 A / 24 V	10 A / 24 V		
Output relays		AC	5 A / 250 V	5 A / 250 V		
Ħ	Inductive load	DC	5 A / 24 V	5 A / 24 V		
utp	Me	chanical life	> 30 x 10 <sup>6</sup> operations	> 30 x 10 <sup>6</sup> operations		
0	Max. switching	rate, mech.	72.000 operations / hour	72.000 operations / hour		
	Electrical life	e at full load	360 operations / hour	360 operations / hour		
	Con	tact material	AgNi 90/10	AgNi 90/10		
	Maxin	num voltage	440 VAC	440 VAC		
	Opera	ating voltage	250 VAC	250 VAC		
	Volt. between o	changeovers	2500 VAC	2500 VAC		
	Voltage between	een contacts	1000 VAC	1000 VAC		
	Voltage	coil/contact	5000 VAC	5000 VAC		
	Distance	coil/contact	10 mm	10 mm		
	Isolatio	n resistance	> 10 <sup>4</sup> MΩ	$> 10^4  \mathrm{M}\Omega$		

			_		
		A			
		PNHA	DNHA		
Supply		6 0 0 0 0 0 0 0 0 0 0	A1 A2 N		
S	Galvanic isolation	Yes			
	Frequency	50 / 60 Hz			
	Operating margins	±1015%			
	Positive	-			
	Protected polarity	-			
	Consumption	3,2 VA			

		PNHA	DNHA		
	Voltage phase-neutral	300 V	300 V		
	Overvoltage category	III	III		
	Rated impulse voltage	4 kV	4 kV		
data	Pollution degree	2	3		
þ	Protection	IP 20 B	IP 20		
nta	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		
ž	Humidity	3085% HR	3085% HR		
ق	Housing	Cycoloy - Light grey	Cycoloy - Light grey		
Constructive and anviromental	Socket	Lexan - Light grey	-		
	Visor leds	Lexan - Transparent	Lexan - Transparent		
	Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue		
	Pins of the socket	Nickel-plated brass	-		
	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: l	JL 91 V0		



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