

PNGA DNGA





DOUBLE LEVEL CONTROL

Field of application · Control of two independent deposits

· Control of two pumps with stop at an only level

· Control of level and an alarm of maximum or minimum

Difference It is composed by two independent level controls with a relay (contacts NA) associated to each one of them. They can work as individual or related among them (see the application examples

in page 2).

Operation principle Control of maximum and minimum level: Relay 1 activates when the level of the liquid reaches

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

descends below the electrode of minimum level (6: PNGA - Y1: DNGA).

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

level (8: PNGA - Y3: DNGA).

Control of maximum or minimum level: The terminals of maximum and minimum electrodes have to be united (Relay 1: 5-6: PNGA; Y1-Y2: DNGA) (Relay 2: 8-9:PNGA; Y3-Y4: DNGA). The relay activates when the liquid level reaches the electrode and it is deactivated when the liquid

descends below the it.

Leds indicating Supply voltage: Green

Relays activated: Red

Voltage in probes 24 VCA

Current in probes 4 mA (in short circuit).

Characteristic of the Normally are used only

Characteristic of the Normally are used cables from 1...2.5 mm² of section with a good isolation and without screening. probes cable 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 $200 \text{K}\Omega$. 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

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

Length of probes cable No specification detailed.

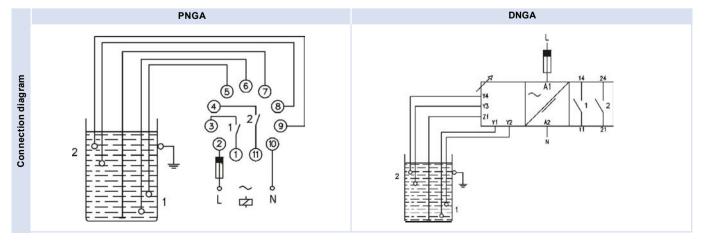
Accessories Electrodes: NS, NR 43650, NRA 43650, NR, NRA, NT, NRP, NP, NRT2.

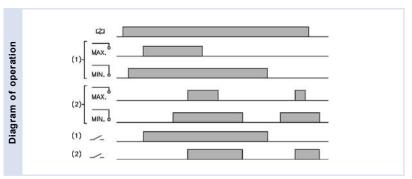
Separators of electrodes: NR.SEP, NRA.SEP Nuts of attachment: NR.TUE/P, NR.TUE/T

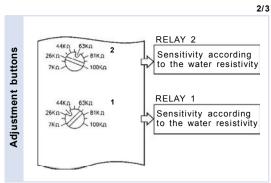
Protective of surge: PS-3

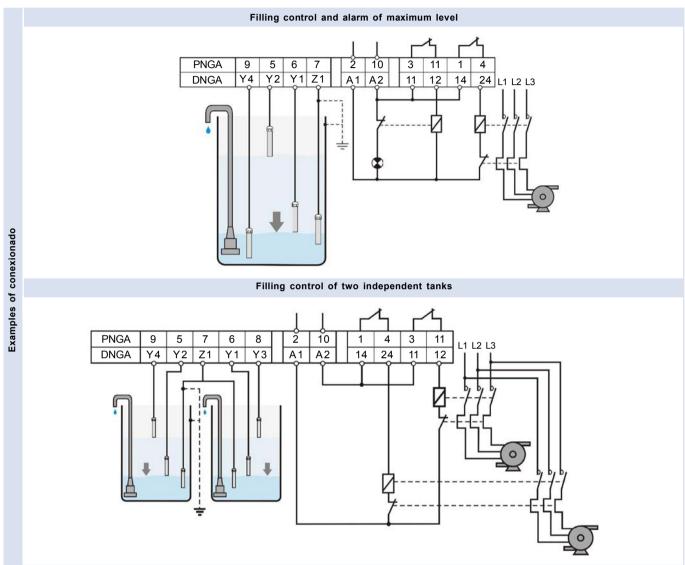
	HOUSING		FUNCTION		OUT PUT		VOLTAGE		RANGE	
9							024	24 VAC		
ē	_						048	48 VAC		
Refer	P D	Plug-in Rail DIN	NG Do	Double level A	Α	A 2 NA	110	110125 VAC	100	10100 ΚΩ
							230	220240 VAC		
							400	380415 VAC		

In order to compose the reference, to select an option of each one of the columns. Example: ${f PNGA~230~100}$







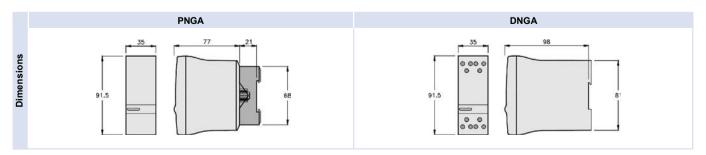




			PNGA	DNGA		
			(5) (6) (7) (8) (3) 1/2/ (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	14 24		
		AC	10 A / 250 V	10 A / 250 V		
	Resistive load	DC	0,4 A / 200 V	0,4 A / 200 V		
ıys		ЪС	10 A / 24 V	10 A / 24 V		
Output relays	Inductive load	AC	5 A / 250 V	5 A / 250 V		
Ŧ		DC	5 A / 24 V	5 A / 24 V		
utp	Me	chanical life	> 30 x 10 ⁶ operations	> 30 x 10 ⁶ operations		
Ō	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	en contacts	1000 VAC	1000 VAC		
	Voltage	coil/contact	5000 VAC	5000 VAC		
	Distance	coil/contact	10 mm	10 mm		
	Isolatio	n resistance	> 10 ⁴ MΩ	$> 10^4 \mathrm{M}\Omega$		

		CA			
		PNGA	DNGA		
Supply		6 0 6 0 8 6 9 0 0 0 0 0	A1 / A2 N		
	Galvanic isolation	Yes			
	Frequency	50 / 60 Hz			
	Operating margins	±1015%			
	Positive	-			
	Protected polarity	-			
	Consumption	3,2 VA			

		PNGA	DNGA			
	Voltage phase-neutral	300 V	300 V			
	Overvoltage category	III	III			
	Rated impulse voltage	4 kV	4 kV			
ata	Pollution degree	2	3			
8	Protection	IP 20 B	IP 20			
Constructive and anviromental data	Approximate weight	250 g	280 g			
m e	Storage temperature	-50+85°C	-50+85°C			
.2	Operating temperature	-20+50°C	-20+50°C			
Ě	Humidity	3085% HR	3085% HR			
ď	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	-			
ပိ	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, dire	Electric safety, directive 73/23/EEC.			
	Plastics: UL 91 V0					



 $Rev.\,03/00\cdot24/07/12\cdot DISIBEINT\ reserves\ the\ right\ to\ modify\ the\ specifications\ stated\ in\ this\ document\ without\ previous\ notice$



