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DOUBLE LEVEL CONTROL

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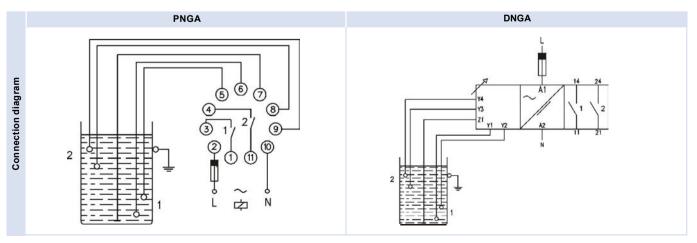


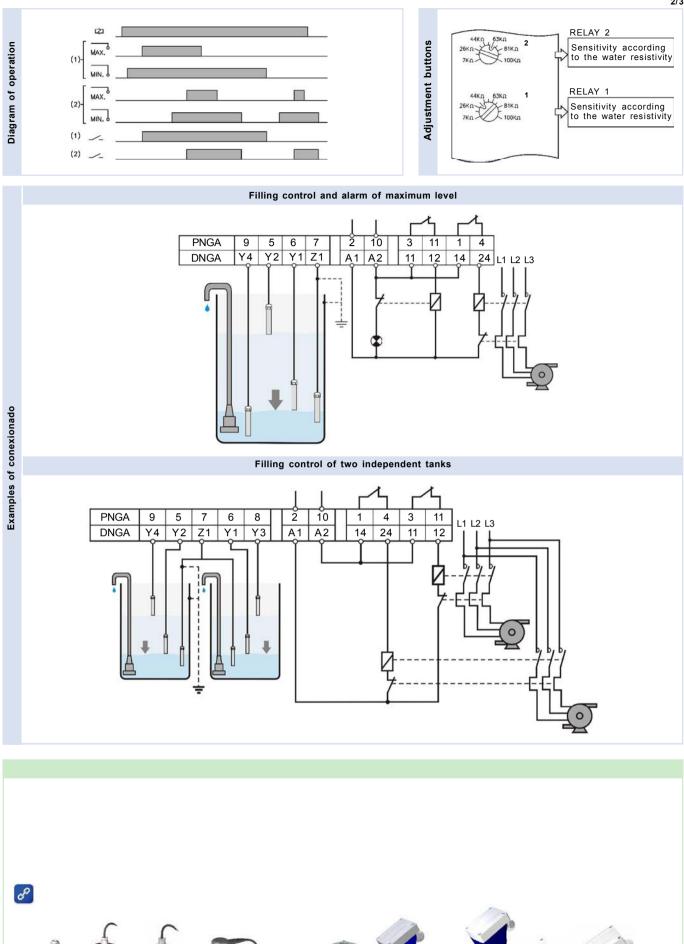


Field of application	 Control of two independent deposits Control of two pumps with stop at an only level Control of level and an alarm of maximum or minimum
Difference	It is composed by two independent level controls with a relay (contacts NA) associated to each one of them. They can work as individual 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	·
	4 mA (in short circuit).
Characteristic of the	Normally are used cables from 12.5 mm ² of section with a good isolation and without screening. 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 K Ω . The screen is connected to ground.
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 024 24 VAC Reference 048 48 VAC Р Plug-in **100** 10..100 ΚΩ NG 110..125 VAC Double level Α 2 NA 110 D Rail DIN 230 220..240 VAC 400 380..415 VAC

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





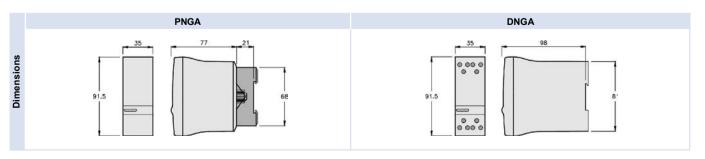
2/3

			PNGA	DNGA
			$ \begin{array}{c} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		AC	10 A / 250 V	10 A / 250 V
	Resistive load	DC	0,4 A / 200 V	0,4 A / 200 V
ys			10 A / 24 V	10 A / 24 V
Output relays		AC	5 A / 250 V	5 A / 250 V
Ŧ	Inductive load	DC	5 A / 24 V	5 A / 24 V
utp	Mechanical 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
	Cont	act material	AgNi 90/10	AgNi 90/10
	Maximum voltage Operating voltage		440 VAC	440 VAC
			250 VAC	250 VAC
	Volt. between changeovers		2500 VAC	2500 VAC
	Voltage between contacts		1000 VAC	1000 VAC
	Voltage coil/contact		5000 VAC	5000 VAC
	Distance coil/contact		10 mm	10 mm
	Isolation resistance		> 10 ⁴ MΩ	> 10 ⁴ ΜΩ

			A	
Supply		PNGA	DNGA	
	Galvanic isolation	Ye	Yes	
	Frequency	50 / 6	50 / 60 Hz	
	Operating margins	±10	±1015%	
	Positive	-		
	Protected polarity	-		
	Consumption	3,2 VA		
		PN	GA	
	Voltage phase-neutral	300 V		
ata	Overvoltage category	111		
	Rated impulse voltage	4 kV		
	Pollution degree	2		
l d	Protection	IP 2	IP 20 B	
ental data	Approximate weight	250 g		
e a	.			

anviromenta	Approximate weight	250 g	280 g	
	Storage temperature	-50+85°C	-50+85°C	
	Operating temperature	-20+50°C	-20+50°C	
	Humidity	3085% HR	3085% HR	
anda	Housing	Cycoloy - Light grey	Cycoloy - Light grey	
ctive ar	Socket	Lexan - Light grey	-	
	Visor leds	Lexan - Transparent	Lexan - Transparent	
2	Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue	
Const	Pins of the socket	Nickel-plated brass	-	
G	Pins of the terminal block	-	Brass	
	Approvals	Designed and manufactured under EEC standards.		
		ctives 89/366/EEC and 92/31/EEC.		
		Electric safety, directive 73/23/EEC.		

Plastics: UL 91 V0



ELECTRONIC SL

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DNGA 300 V 111 4 kV 3 IP 20