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Реле уровня для токопроводящих жидкостей серии DNC/PNC

 **tecfluid**

LEVEL RELAYS FOR CONDUCTIVE LIQUIDS WITH DC OR AC POWER SUPPLY DNCA / DNCB, PNCA / PNCB SERIES

Benefits

- Simple, reliable and economical
- DC or AC power supply
- Dual relay contact output
- Maximum and/or minimum level control
- Sensitivity: 8..45 KOhms
- Voltage (probes): 6.2 VAC
- Current 3.2mA
- Fill or empty function



Functioning

Fill function : Maximum and minimum level control. The relay is activated when the liquid level is below the minimum control electrode and it is deactivated when the level is above the maximum control electrode.

Drain function : Maximum and minimum level control. The relay is activated when the liquid level reaches the maximum control electrode and it is deactivated when it is below the minimum control electrode. For this option, a bridge must be made between terminals 5 and 6 (PNCA/PNCB) or between Y1 and Y2 (DNCA/DNCB).

Technical data

LED indication: Voltage present: Green
Relay On: Red

Sensitivity range: Adjustable from 8 to 45 KOhms

Probe consumption: 3.2 mA (short-circuited) at 6.2 VAC (VPEAK)

Probe cable characteristics

Normally 1 to 2.5 mm cables are used 2-section with good insulation and unshielded. In some installations, when the power line and the probes are parallel in the same tube and with long distances, it is recommended to use a shielded cable, connecting the braid to the common terminal of the probes, corresponding to the reference (ground). If the tank is not conductive, an additional probe must be provided to connect the reference (ground) to the common terminal of the probes.

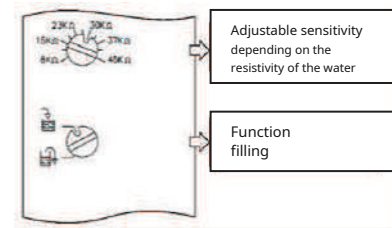
Cable resistance: > 200KΩ Probe
cable length: < 100 meters

Housing	Function	Exit	Tension	Range
P: Plug-in D: DIN rail	Level control with DC power supply	A: 1 NO B: 2 NO	712 12 VDC	45K 8KΩ..45 KΩ
			724 24 VDC	
			024 24VAC	
			048 48VAC	
			110 110..125VAC	
			230 220..230 VAC	
			400 380..415 VAC	
			901 15..70 VAC/DC	
902 60..240 VAC/DC				

Operation diagram

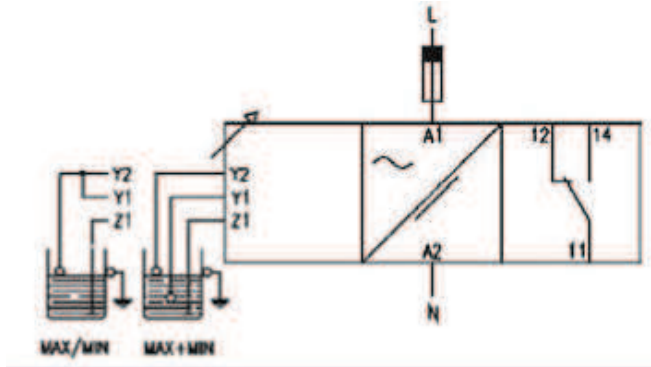


Setting

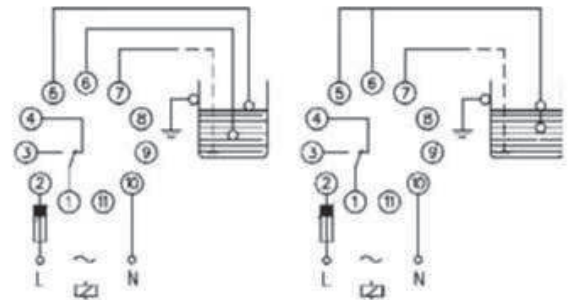


Connection diagram

DNCA / DNCB





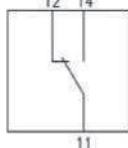
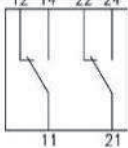
PNCA / PNCB



Supply voltage

	AC		CC		ACCC	
	PNCA / PNCB	DNCA / DNCB	PNCA / PNCB	DNCA / DNCB	PNCA / PNCB	DNCA / DNCB
Isolation galvanic	Yes		No		9XX: Yes	UXX: No
Consumption	1.6VAC		1.2W		1.6W	1.7W
Frequency	50/60Hz		-		-	-
Margins of work	+ /-10%...-15°C		+/- 10%		-	-
Positive	-		Terminal 2	Terminal A 1	Terminal 2	Terminal A 1
Polarity protected	-		Yes		Yes	

Output relay

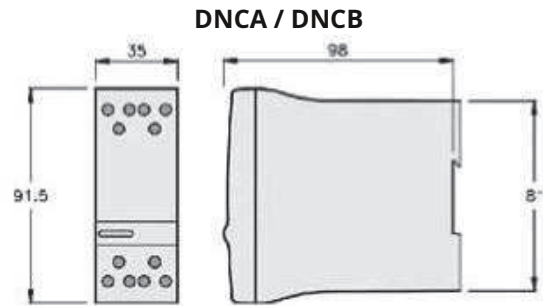
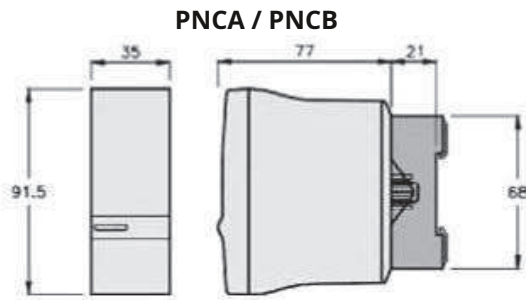
		CAFN	CBNP	DNCA	DNCB
					
resistive load	AC	10A / 250V	8A / 250V	10A / 250V	8A / 250V
	CC	0.4A / 200V 10A / 24V	0.25A / 200V 8A / 24V	0.4A / 200V 10A / 24V	0.25A / 200V 8A / 24V
Inductive load	AC	5A / 250V	2.5A / 250V	5A / 250V	2.5A / 250V
	CC	5A / 24V	4A / 24V	5A / 24V	4A / 24V
Mechanical life		> 30x10 ⁶ operations		> 30x10 ⁶ operations	
Max. mechanical operation		72,000 operations / hour		72,000 operations / hour	
Electrical life at full load		360 operations / hour		360 operations / hour	
Contact materials		Ag Ni 90/10		Ag Ni 90/10	
Max voltage		440VAC		440VAC	
Operating voltage		250VAC		250VAC	
Voltage between inverters		2500VAC		2500VAC	
Voltage between contacts		1000VAC		1000VAC	
Coil/contact voltage		5000VAC		5000VAC	
Coil/contact distance		10mm		10mm	
Insulation resistance		> 10 ⁴ MΩ		> 10 ⁴ MΩ	

Technical data

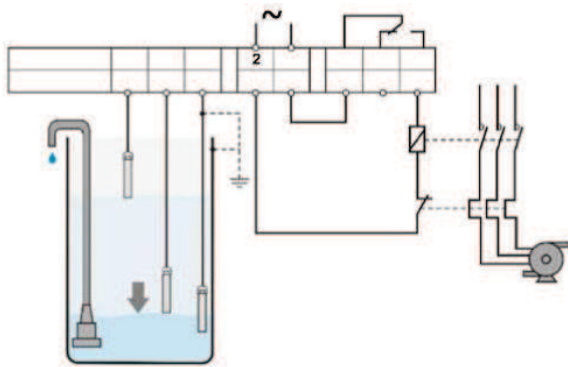
	PNCA / PNCB	DNCA / DNCB
Neutral phase voltage	300V	
Overvoltage category	III	
Impulse voltage	4kV	
pollution degree	2	3
Degree of protection	IP 20 B	IP20
Approximate weight	250g	280g
Storage temperature	- 50...85°C	
Temp. Operating	- 20...+50°C	
Humidity	30...85% RH	
Housing	Cycloy, light gray	
Base	Lexan, light gray	-
LED viewfinder	Lexan, Clear	
Buttons, terminals and base	Technyl, dark blue	
Basic terminal blocks	Nickel-plated brass	-
Screw terminals	-	Brass

Standards: Designed and manufactured under EEC regulations.
 Electromagnetic compatibility, directives 89/366/CEE and 92/31/CEE.
 Electrical safety, directive 73/23/CEE.
 Plastic materials: UL 91 V0


Dimensions



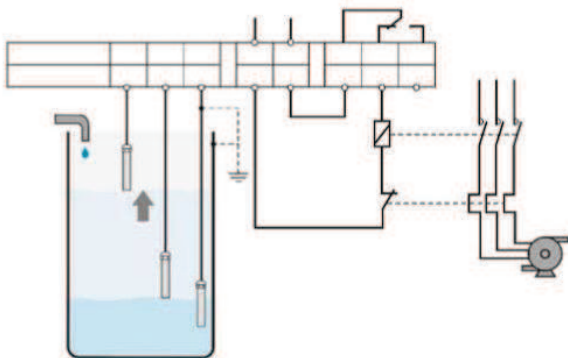
Examples of connections




Drain control

Selector in position 

The relay maintains the level between the maximum and minimum electrodes. When the liquid reaches the maximum electrode, the pump starts and will stop when the liquid drops below the minimum electrode.



Filling control

Selector in position 

The relay maintains the level between the maximum and minimum electrodes. The filling pump starts when the liquid is below the minimum electrode, and stops when the liquid reaches the maximum electrode.



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