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Реле уровня для проводящих жидкостей серии DNEA / PNEA

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TecFLUID
The art of measuring

LEVEL CONTROL FOR LOW CONDUCTIVE LIQUIDS DNEA / PNEA SERIES

Benefits

- Simple, reliable and economical
- Maximum and/or minimum level control
- 2 sensitivity ranges 10..100 KOhms / 200KΩ...4.7 MOhms
- Fill or empty function

Apps

- For liquids with high resistivity: distilled water, demineralised, etc.
- Filling or emptying control

Functioning

Fill function : Maximum and minimum level control. The relay is activated when the liquid level is below the minimum level electrode (6:PNEA; Y1:DNEA) and deactivated when the liquid level reaches the maximum level electrode (5:PNEA; Y2: DNEA).
Alarms : Maximum or minimum level control. The relay is activated when the liquid level is below the electrode (5/6:PNDA; Y1/Y2:DNEA) and deactivated when the liquid level is above it.

Drain function : Maximum and minimum level control. The relay is activated when the liquid level reaches the maximum level electrode (5:PNEA; Y2:DNEA). It is deactivated when it drops below the minimum level electrode (6:PNEA; Y1:DNEA).
Alarms : Maximum or minimum level control. The relay is activated when the liquid level reaches the electrode (5/6:PNDA; Y1/Y2:DNEA) and it is deactivated when it drops below the latter.

Technical data

Sensitivity: 2 ranges: 10 to 100KOhms and 200KΩat 4.7MOhms
Probe voltage: 24 V AC
Probe current: 4 mA (Short-circuited)

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 probes are parallel in the same tube and with long distances, it is recommended to use shielded cable. The resistance between the cables and ground must beofat least 200 KOhms. The braid is connected to terminal 7 (PNEA) or Z1 (DNEA).

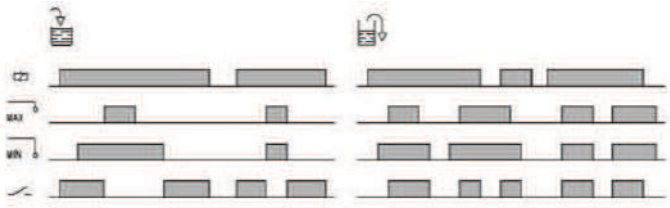
Login:If the tank is not conductive, an additional probe must be provided to connect the reference (ground) to terminal 7 (PNEA) or Z1 (DNEA).

Probes and accessories:Electrodes: NS, NR 43650, NRA 43650, NR, NRA, NT, NRP, NP, NRT2.
Separatorselectrodes: NR.SEP, NRA.SEP

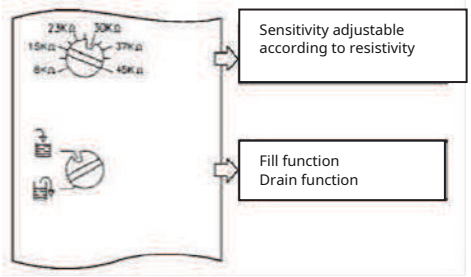
Level control for weakly conductive liquids DNEA / PNEA

Housing	Function	Exit	Tension	Range
P: Plug-in D: DIN rail	NE Control of high level sensitivity	A: 1 NO	024 24 VAC 230 220..230 VAC	100 10KΩ..100 KΩ 4M7 200KOh..4.7MΩ

Operation diagram

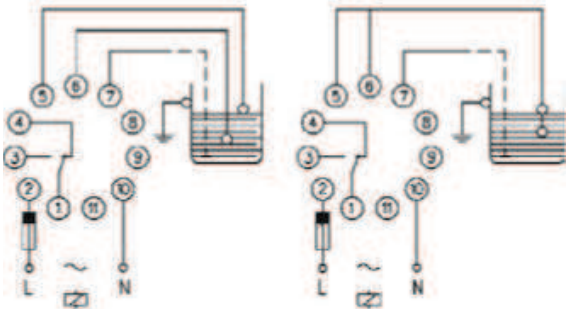


Setting

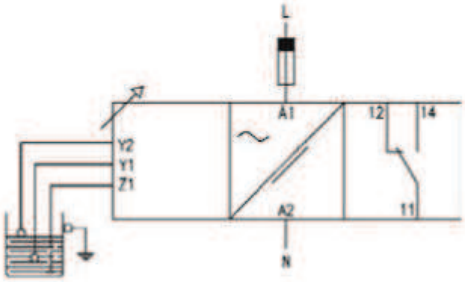


Connection diagram

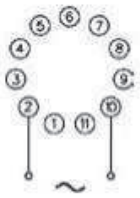
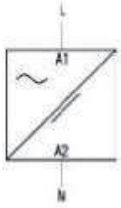
PNEA



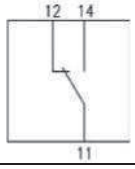
DNEA



Supply voltage

	AC	
	PNEA	DNEA
		
Galvanic isolation	Yes	
Consumption	1.6VAC	
Frequency	50/60Hz	
Margins of work	+ /-10%...-15°C	
Positive	-	
Polarity protected	-	

Output relay

		PNEA	DNEA
			
resistive load	AC	8A / 250V	
	CC	0.25A / 200V 8A / 24V	
Inductive load	AC	2.5A / 250V	
	CC	4A / 24V	
Mechanical life		> 30x10$_6$operations	
Max. mechanical operation		72,000 operations / hour	
Electrical life at full load		360 operations / hour	
Contact material		Ag Ni 90/10	
Max voltage		440VAC	
Operating voltage		250VAC	
Voltage between inverters		2500VAC	
Voltage between contacts		1000VAC	
Coil/contact voltage		5000VAC	
Coil/contact distance		10mm	
Insulation resistance		> 10$_4$MΩ	

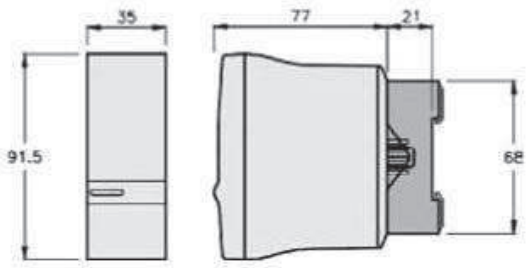
Technical data

	PNEA	DNEA
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	Cycoloy, 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

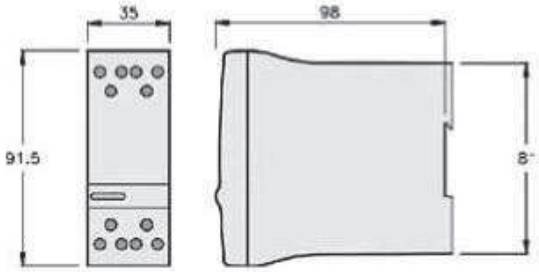
Standards:Designed and manufactured under EEC regulations.
Electromagnetic compatibility, directives 89/366/CEE and 92/31/CEE.
Electrical safety, directive 73/23/CEE.
Plastic materials: UL 91 V0

Dimensions

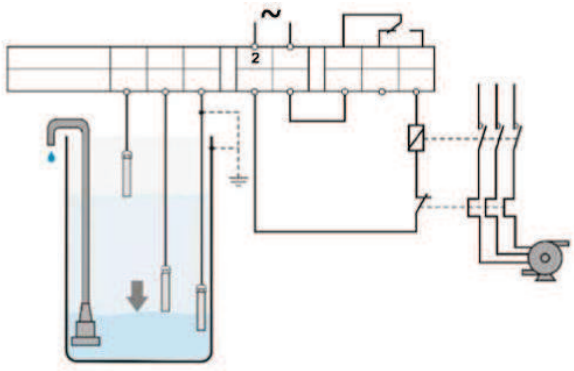
PNEA



DNDA



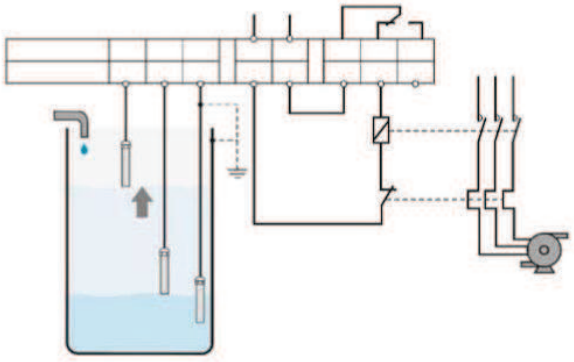
Examples of connections



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 will start 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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