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# Реле уровня для проводящих жидкостей серии SNDA

 **tecfluid**

## DOUBLE LEVEL CONTROL FOR CONDUCTIVE LIQUIDS - NO/NC CONTACTS SNDA SERIES

### Benefits

- Simple, reliable and economical
- Two independent level controls
- NO/NC contacts
- Maximum and/or minimum level control
- Sensitivity 10 KOhms to 100 KOhms

### Apps

- Control of two separate tanks
- Control of two pumps with stopping at a single level point
- Maximum and/or minimum alarm level control

### Functioning

Maximum and minimum level control: Relay 1 is activated when the liquid level reaches the highest level of the electrodes (Y2) and deactivated when the liquid drops below the electrode minimum level (Y1). Relay 2 is activated when the liquid level reaches the highest level of the electrodes (Y4) and deactivated when the liquid drops below the minimum level electrode (Y3). Maximum or minimum level control : The terminals of the maximum and minimum electrodes must be united (relay 1: Y1-Y2) (relay 2: Y3-Y4). The relay is activated when the liquid level reaches the electrode and it is deactivated when it drops below the latter.

### Technical data

LED indication: Voltage present: Green  
Relay On: Red  
Sensitivity: Adjustable from 10 ...100K $\Omega$   
Probe voltage: 24 VAC  
Probe current: 4mA (short-circuited)

### Characteristics of the probe cable

Cables are usually used 1 .. 2.5 mm<sup>2</sup> with good insulation and unshielded. In some installations, where the power line and probes are parallel in the same tube and long distances, we recommend using shielded cable. The insulation resistance between cables and ground must be at least 200 k $\Omega$ . The braid is connected to the reference (ground).

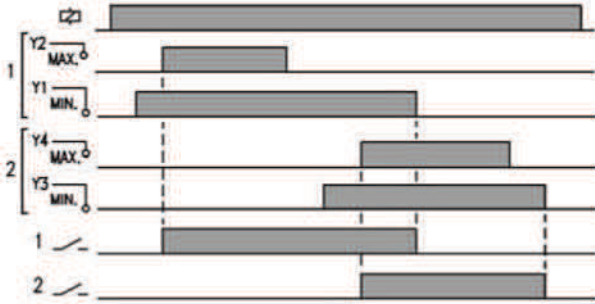
### Ground connection

If the tank is not conductive, an additional probe must be installed to connect the reference (ground) to terminal Z1.

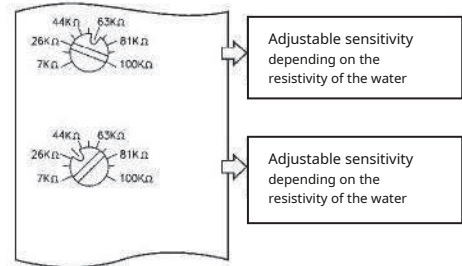
**Probes and accessories:** Electrodes: NS, NR 43650, ARN 43650, NR, NRA, NT, PNR, NP, NRT2.  
Electrode Separators: NR.SEP, NRA.SEP - Nuts: NR.TUE/P, NR.TUE/T Surge  
Protector: PS-3

Housing	Function	Exit	Tension	Range
S Area	Dual level	A 1+1 NO	<b>024</b> 24VAC <b>048</b> 48VAC <b>110</b> 110..125VAC <b>230</b> 220..230 VAC <b>400</b> 380..415 VAC	100 10KΩ..100KΩ

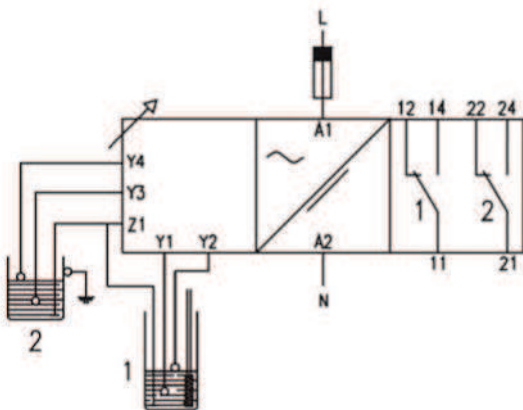
Operation diagram



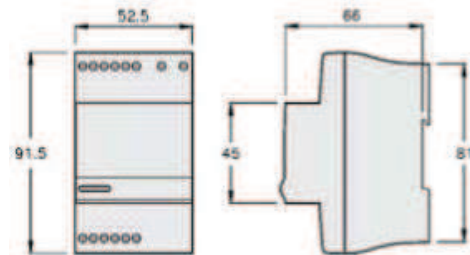
Setting



Login



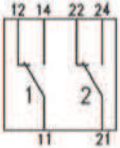
Dimensions



Supply voltage

	AC SNDA
Isolation galvanic	Yes
Consumption	3.2VAC
Frequency	50/60Hz
Margins of work	+ /-10%...-15°C
Positive	-
Polarity protected	-

**Output relay**

		<b>SNDA</b>
		
resistive load	AC	10A / 250V
	CC	0.4A / 200V 10A / 24V
Inductive load	AC	5A / 250V
	CC	5A / 24V
Mechanical life		> 30x10 <sup>6</sup> 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 <sup>4</sup> MΩ

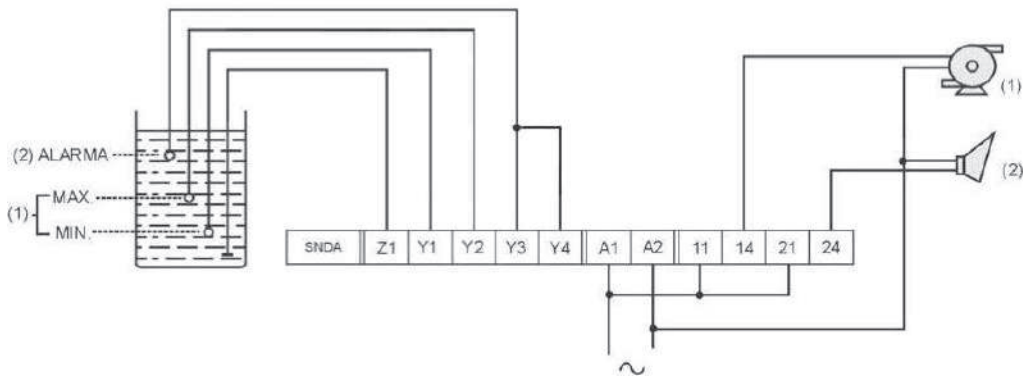
**Technical data**

		<b>SNDA</b>
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

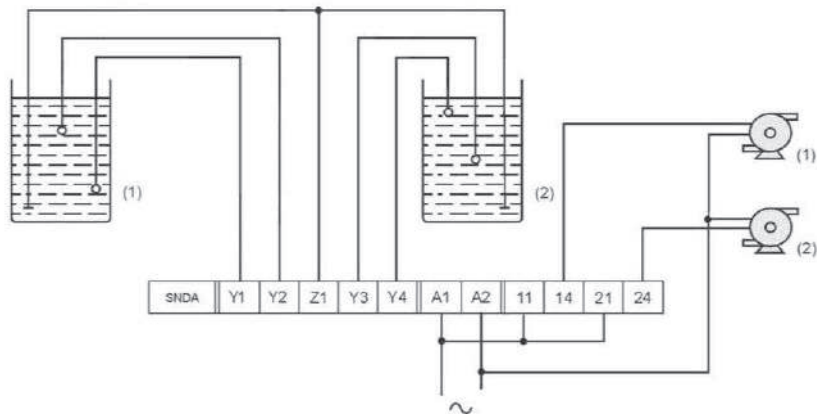
**Standards:** Designed and manufactured under EEC regulations.  
 Electromagnetic compatibility, directives 89/366/CEE and 92/31/CEE.  
 Electrical safety, directive 73/23/CEE.  
 Plastic materials: UL 91 V0

Examples of connections

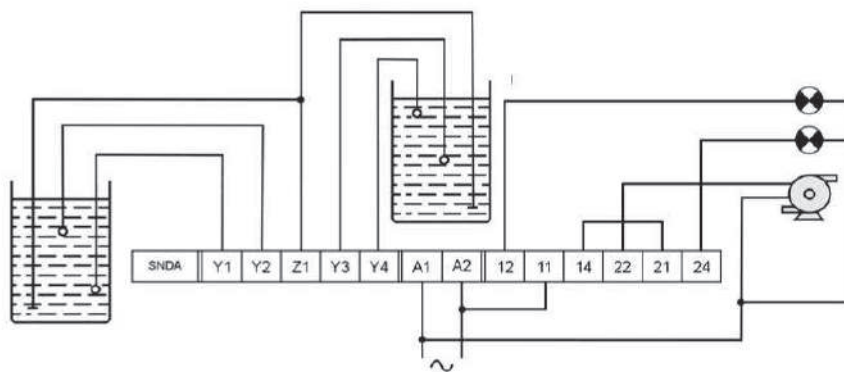
Emptying control and maximum level alarm



Emptying control of two separate tanks



SNDA: Well/reservoir level control





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