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Реле уровня для проводящих жидкостей серии MNZA

TECFLUID

TecFLUID
The art of measuring

TRIPLE LEVEL CONTROL - MNZA SERIES NONNF CONTACTS

Benefits

- Simple, reliable and economical
- 3 independent level controls
- NO/NC contacts
- Maximum and/or minimum level control
- No housing, direct DIN rail mounting
- Sensitivity 10 KOhms to 100 KOhms

Functioning

Max and min level control: The relay is activated when the liquid level reachesthe electrode of maximum level (MA). It is disabled whenit is below the minimum level electrode (MID).

Max or min level control : Connect the maximum level (MA) and minimum level (MI) electrodes. The relay is activated when the liquid reachesTHEelectrode (MA-MI) and deactivated when it is below of the electrode (MA-MID).

Technical data

LED indicators: Presence of voltage (green)
Relay activated (in red), independently for each level control
Sensitivity:Adjustable from 10 to 100kΩ, independently for each controllevel

Starters : the common inputs (C) of each level control are linked together, independently of the max and min inputs
Exits : 1 changeover relay, independently for each level control.

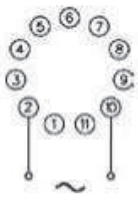
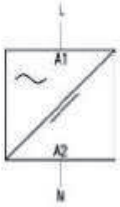
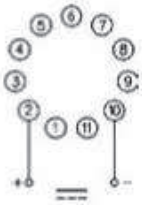
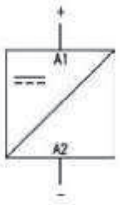
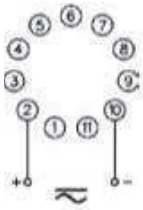
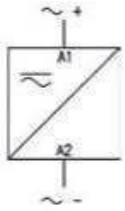
Probe voltage: 24 VAC, maximum voltage variation: ± 15% Probe current: 10 mA for each level control

Delay: approx. 1.5 seconds, on relay deactivation

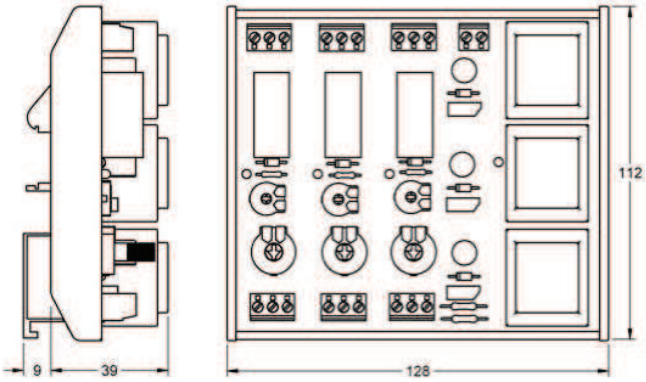
Characteristics of the probe cable:The cables used are generally 1..2.5 $mm^2$with good insulation and unshielded. In some installations, when the power line and probes are parallel in the same tube andlong distances, we recommend using a cableshielded wheat.
The resistance between the cablesand the ground must be at least 200 kΩ.The braid is connected to the reference (ground).

Common electrode connection:If thetank is not conductive,an additional electrode must be installed to connect it to terminal C.

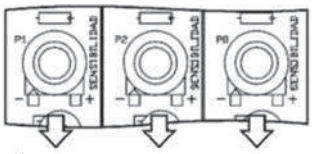
Supply voltage

	THAT		CC		CCCC	
	PNCA / PNCB	DNCA / DNCB	PNCA / PNCB	DNCA / DNCB	PNCA / PNCB	DNCA / DNCB
						
Isolation galvanic	Yes		No		9XX: Yes	UXX: No
Consumption	1.6VA		1.2W		1.6W	1.7W
Frequency	50/60Hz		-		-	
Margins of work	+ /-10%...-15°C		+/- 10%		-	
Positive	-		Terminal 2	Terminal A1	Terminal 2	Terminal A1
Polarity protected	-		Yes		Yes	

MNZA dimensions



Setting



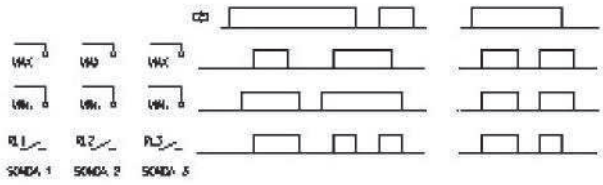
Level 1 *Level 2* *Level 3*

Sensitivity adjustable according to the resistivity of the water

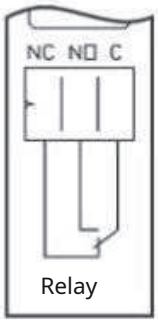
Technical data

	MNZA
Neutral phase voltage	300V
Overvoltage category	III
Impulse voltage	4kV
pollution degree	3
Approximate weight	470g
Storage temperature	- 50...+85°C
Temp. Operating	- 20...+50°C
Humidity	30...85% RH
Support base	Polyamid PA 6.6, self extinguishing
Basic terminal blocks	Nickel-plated brass

Operation diagram

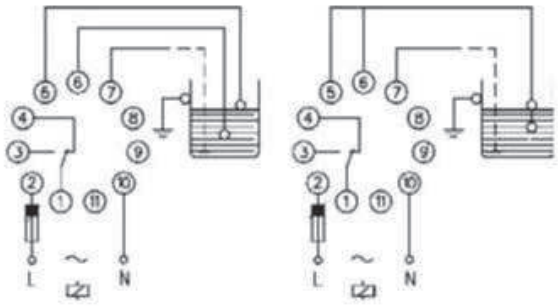


Output relay

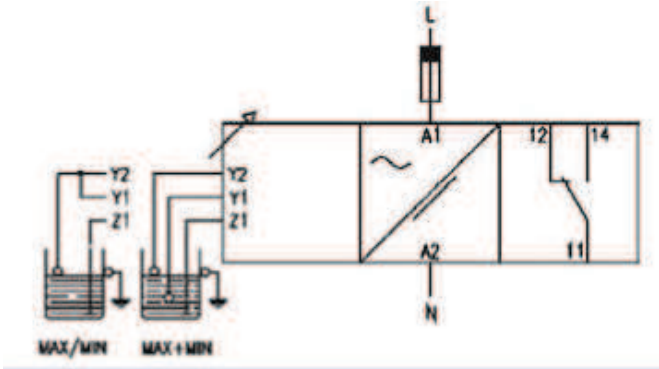
		MNZA
		
resistive load	AC	8A / 250V
	CC	0.25A / 200V 8A / 24V
Inductive load	AC	2.5A / 250V
	CC	4A / 24V
Mechanical life		> 30x10$_6$operations
Max. mechanical operation		72,000 operations/h
Electrical life at full load		360 operations/h
Contact material		Ag Ni 90/10
Max voltage		440VAC
Operating voltage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

Connection diagram

PNCA / PNCB



DNCA / DNCB



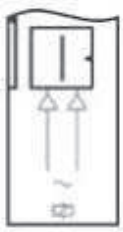
Standards:Designed and manufactured under EEC regulations.
Electromagnetic compatibility, directives 89/366/CEE and 92/31/CEE.
Electrical safety, directive 73/23/CEE.
Plastic materials: UL 91 V0

MNZA Triple Level Control

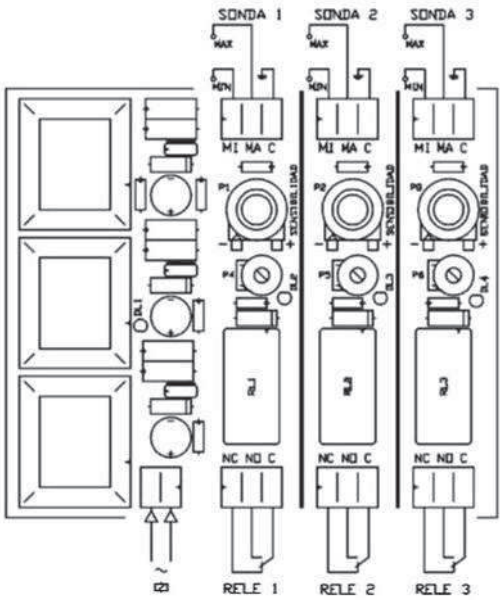
Feed	
Galvanic isolation	Yes
Frequency	50/60Hz
Work margins	±10% -15%

Supply voltage

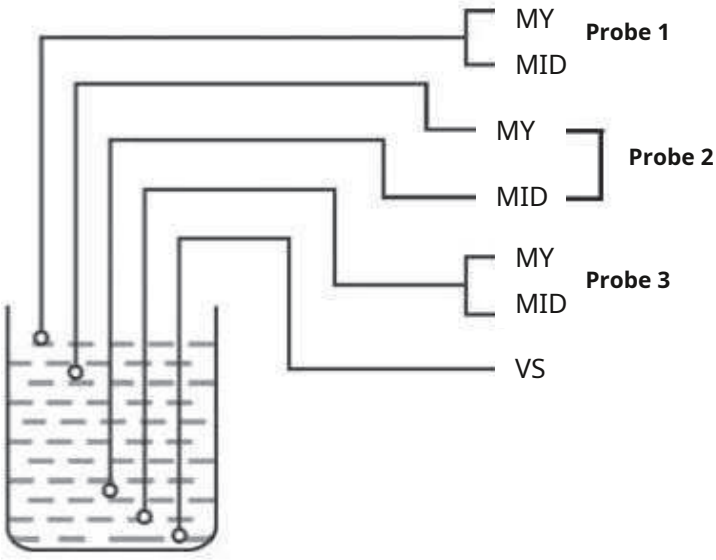
024	24VAC
048	48VAC
110	110..125VAC
230	220..240 VAC
400	380..415 VAC



Examples of connections



Application examples



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