

**FLUID LEVEL CONTROL RELAY**  
 three-position

**PZ-831 RC**

**WARRANTY.** The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a complaint can be found on the website: [www.fif.com.pl/reklamacje](http://www.fif.com.pl/reklamacje)



Do not dispose of this device to a garbage bin with other unsorted waste! In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of nature pose a threat to the environment and human health.

**PURPOSE**

Fluid level control relay PZ-831 is devised to detect the presence of conductive liquids reaching the level of the sensor.

**FUNCTIONING**

Power relay is indicated by shine of a green LED. In the dry state (open all of the probe), all relay contacts are open. Liquid short-circuit the base probe and COM further probe the level will close the contact of relay assigned to the probe, for example, at the time of flooding of the first probe R1 (short-circuit the base probe COM and probe the underlying level R1) contact 11-12 is closed. Similarly for the probes R2 and R3. Reducing the liquid level below the probe level (gape COM probe and probe level) to open the contact assigned to the probe.

**ASSEMBLY**

1. Take OFF the power.
2. Put on the relay on the rail in the switchgearbox.
3. Connect power to contacts 1-2 with marks.

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4. Probe connect to relay by cable <math><1 \text{ mm}^2</math>.
5. Assembly probe on the same level as controlled fluid. Base probe COM should be mounted under the level probes R1, R2 and R3.
6. In supply system of operating devices connect in line (series) contacts of relay.
7. By knob set sensitivity.

**ATTENTION!**

The electrode probe is connected by means of a cable with wire diameter up to 1 mm and maximum length of 100 m.

**TECHNICAL DATA**

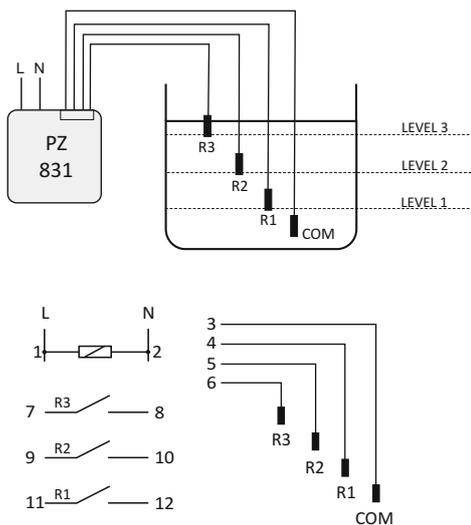
power supply	230V AC
current load	3x (<math><8\text{A}</math>)
contacts	3x (1xNO)
sensitivity	1÷180 KΩ
contact switching delay	<math><2 \text{ sec}</math>
power supply indicator	green LED
working mode indicator	3x red LED
power consumption	1,1W
connection	2.5 mm <sup>2</sup> screw terminals
dimensions	3 modules (52.5 mm)
mounting	on rail TH-35 mm
protection level	IP20

**contacts 3-4-5-6 separated galvanize**

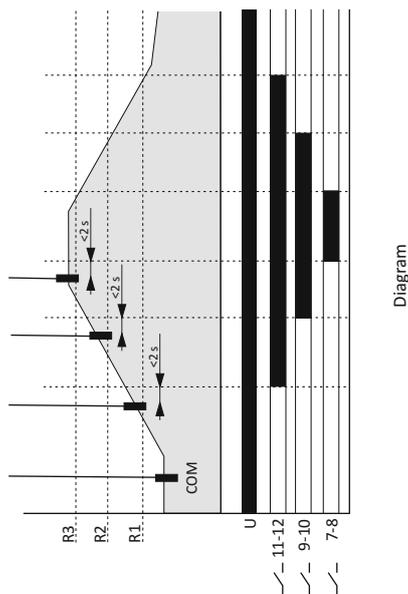
flooding probe	acid-resistant steel electrode
	in plastic box case with stuffing box
dimension of probe	∅15, l=9,5 cm
probe voltage	<math><6 \text{ V}</math>
probe current	<math><0,13 \text{ mA}</math>
connection cable	e.g. DY 1 mm <sup>2</sup>

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**WIRING DIAGRAM**



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D160309

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