

35.

FLUID LEVEL CONTROL RELAYS

PURPOSE

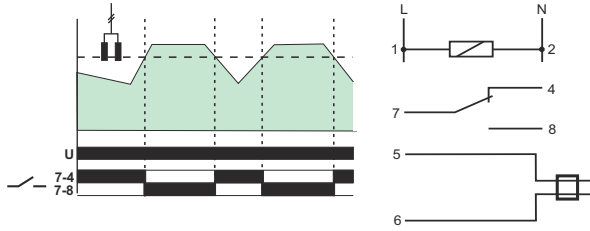
Fluid level control relays are used to detect the presence of fluid conductive the current on the level of mounted flooding sensors.

ONE-POSITION

PZ-828

PZ-828 RC

WITH ADJUSTABLE SENSITIVITY



power supply	230V AC
load current	<16A
contact	separated 1xNO/NC
sensitivity - adjustable for PZ-828 RC	1±100kΩ
output voltage measurement	<6V
power indication	green LED
working status indication	red LED
power consumption	1.1W
terminal	2.5mm ² screw terminals
dimensions	2 modules (35mm)
mounting	on TH-35 rail
flooding probe type	1xPZ
5-6 contact	galvanic separated
protection level	IP20

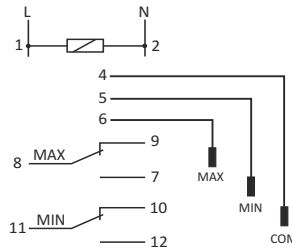
In dry conditions, the relay's contact remains in the 7-4 position. Once the sensor becomes flooded with liquid, the red LED indicator lights up, and the contact is shifted to the 7-8 position. After the level of the conductive liquid decreases (and the electrodes of the flooding sensor depart), the contact returns to position 7-4.

TWO-POSITION

PZ-829

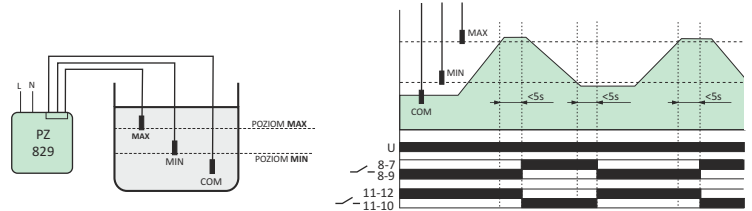
PZ-829 RC

WITH ADJUSTABLE SENSITIVITY



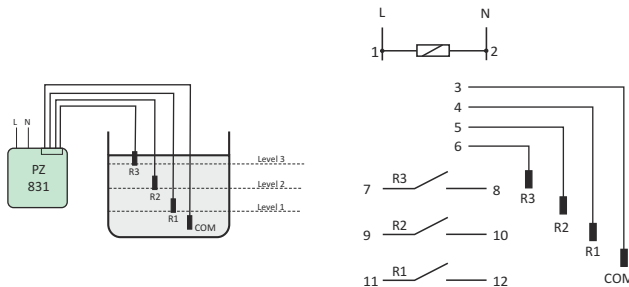
power supply	230V AC
load current	2x<16A
contact	separated 2x[1xNO/NC]
sensitivity - adjustable for PZ-829 RC	1±100kΩ
switching delay contact	
for MIN	1±2sec
for MAX	<5sec
output voltage measurement	<6V
power indication	green LED
working status indication	2xred LED
power consumption	1.1W
terminal	2.5mm ² screw terminals
dimensions	3 modules (52.5mm)
mounting	on TH-35 rail
flooding probe type	3xPZ2
4-5-6 contact	galvanic separated
protection level	IP20

After the liquid level decreases to MIN (i.e. electrodes MIN and COM spaced), the MIN contact is switched to position 11-12, whereas the MAX contact remains in position 8-9. On the other hand, when the MAX liquid level is reached (MAX and COM electrodes shorted), the relay's MIN contact will be switched to position 11-10, whereas the MAX into position 8-7.



THREE-POSITION

PZ-831 RC



power supply	230V AC
load current	3x<8A
contact	3x[1xNO]
sensitivity - adjustable	1±180kΩ
contact switching delay	<2sec
output voltage measurement	<6V
power indication	green LED
working status indication	3xred LED
power consumption	1.1W
terminal	2.5mm ² screw terminals
dimensions	3 modules (52.5mm)
mounting	on TH-35 rail
flooding probe type	4xPZ2
3-4-5-6 contact	galvanic separated
protection level	IP20

In dry condition (all probes open), all the transformer's contacts are also open. If the base probe COM and the next level probe are closed due to a liquid presence, the contact for a given probe will close, e.g. once the first R1 level probe (the COM base probe and the R1 level probe closed) is submerged, the 11-12 contact will close. The same procedure applies to the R2 and R3 level probes. On the other hand, once the liquid level drops below the probe level (the COM probe and the level probe open), the contact for a given probe will open as well.

