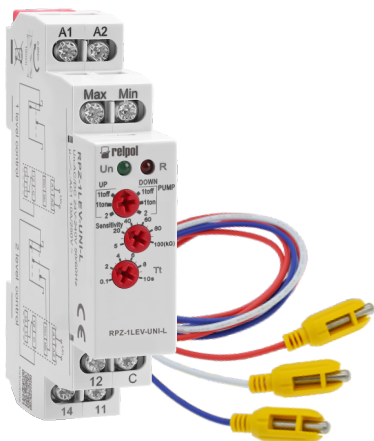


RPZ-1LEV-UNI-L

Level control relay



- In one device you can choose the following configurations:
 - 2 level control mode
 - 1 level control mode
- Choice of function PUMP UP, PUMP DOWN.
- Adjustable time delay on the output (0.1–10s).
- Sensitivity adjustable by a potentiometer (5–100 kΩ).
- Galvanically separated supply voltage AC/DC 24–240 V.
- AC input voltages
- Cover – modular, width 18 mm
- Direct mounting on 35 mm rail mount acc. to EN 60715
- The relay operates with conductive water
- Applications: monitoring of levels in wells, tanks, reservoirs, cisterns
- **The RPZ-1LEV-UNI-L liquid level control relay is supplied complete with 3 probes**
- Certificates: , RoHS

Output circuit

Number and type of contacts	1 CO
Contact material	AgSnO ₂
Max. switching voltage	250 V AC/ 24 V DC
Rated load AC1	10 A/ 250 V AC
Rated current	10 A
Max. breaking capacity AC1	2500 VA
Min. breaking capacity	500 mW

Input circuit

Rated voltage 50/60 Hz AC/DC	24 – 240 V	terminals A1, A2
Operating range of supply voltage	0,85...1,1 U _n	
Rated power consumption:	≤ 2 VA	
Range of supply frequency AC	50 – 60 Hz	

Insulation according to EN 60664-1

Insulation rated voltage	250 V AC
Overvoltage category	III
Insulation pollution degree	2

General data

Electrical life • resistive AC1	1 × 10 ⁷	
Mechanical life (cycles)	1 × 10 ⁵	
Dimensions (L × W × H)	90 × 18 × 64 mm	
Weight	72 g	
Ambient temperature (non-condensation and/or icing)	• storage	–35 °C... +75 °C
	• operating	–20 °C... +55 °C
Cover protection category	front panel: IP40	terminals: IP10

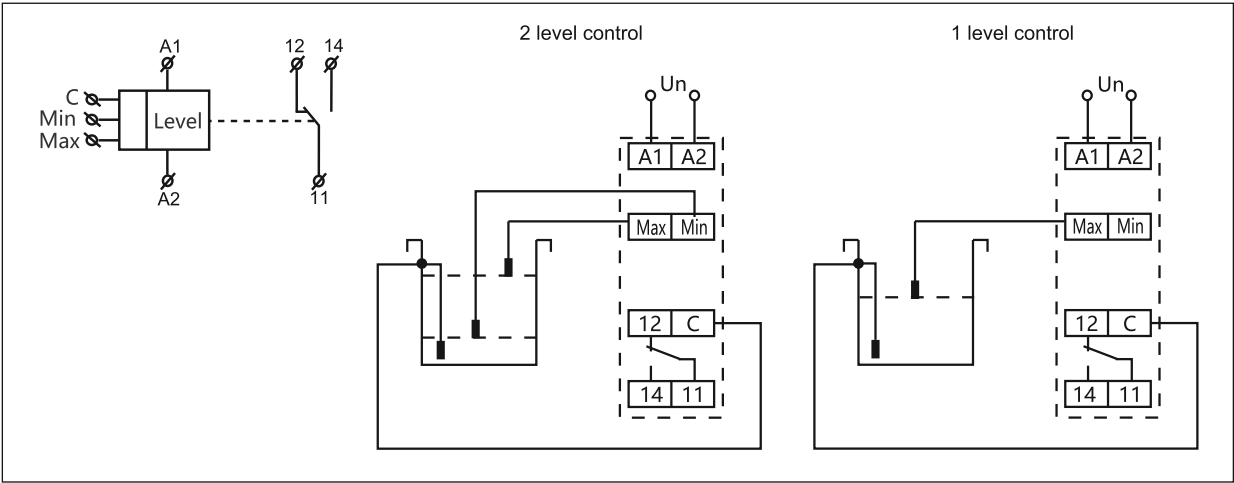
Liquid measurement circuit specifications

Functions	2 or 1 level control mode
Time ranges (timing adjustment)	adjustable 0.1–10 s
Temperature coefficient	0.05%/°C at 20 °C
Max. capacity of the probe including cables	800 m (sensitivity 25 kΩ), 200 m (sensitivity 100 kΩ)
Max. capacity of probe cable	400 nF (sensitivity 25 kΩ), 100 nF (sensitivity 100 kΩ)
Voltage of the measuring probe	max. AC 5 V
Input resistance	adjustable in range 5 kΩ – 100 kΩ
Current in probe	< 0.1 mA AC
Accuracy of settings	±10%
Recovery time	max. 200 ms
LED indicator	green LED U _n ON - indication of supply voltage U red LED R ON/OFF - output relay status

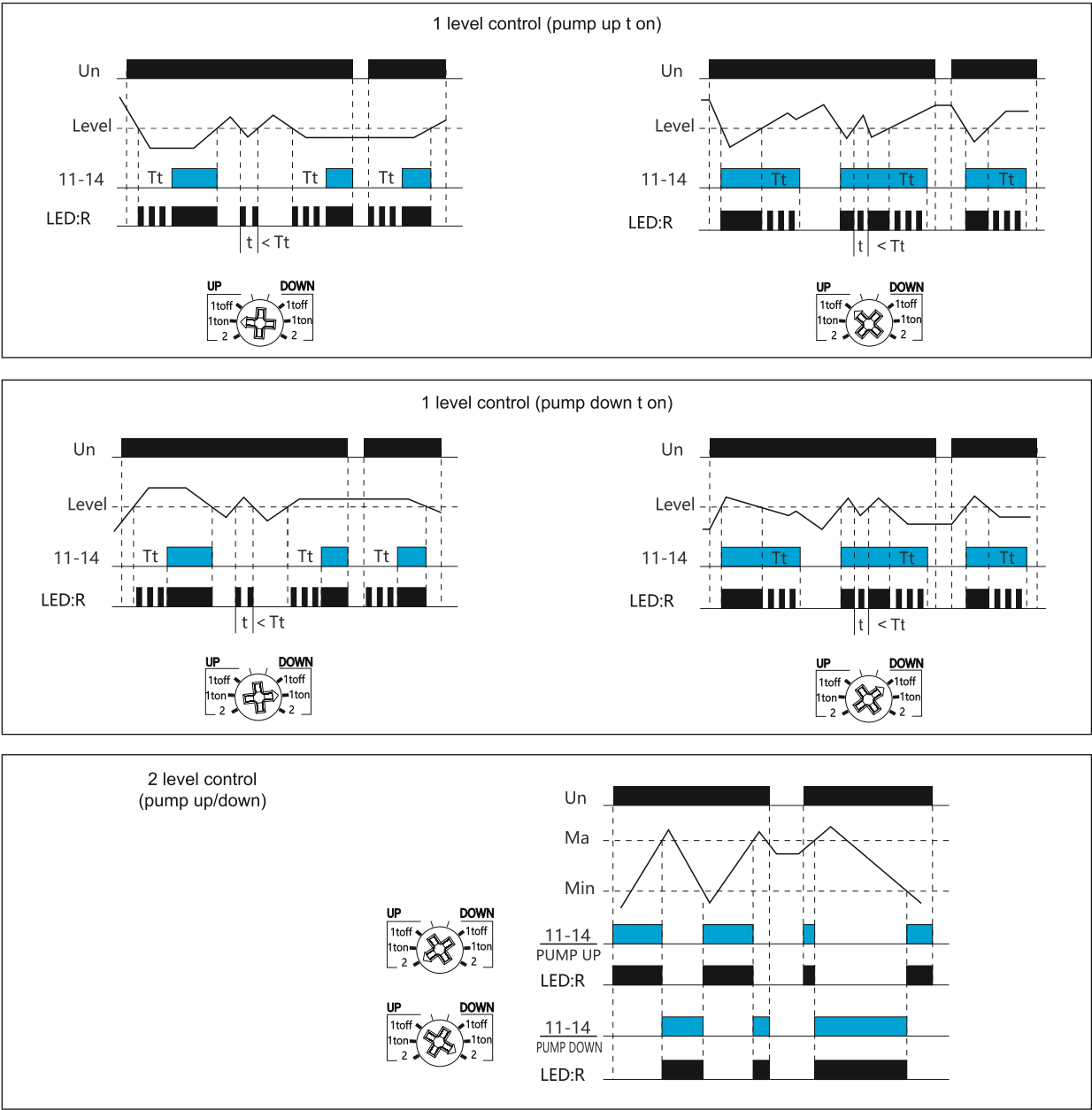
RPZ-1LEV-UNI-L

Level control relay

Connection diagrams



Functions Diagram



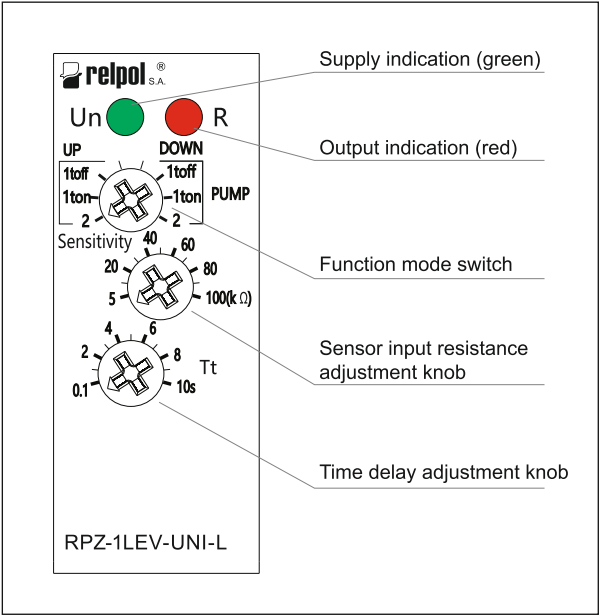
RPZ-1LEV-UNI-L

Level control relay

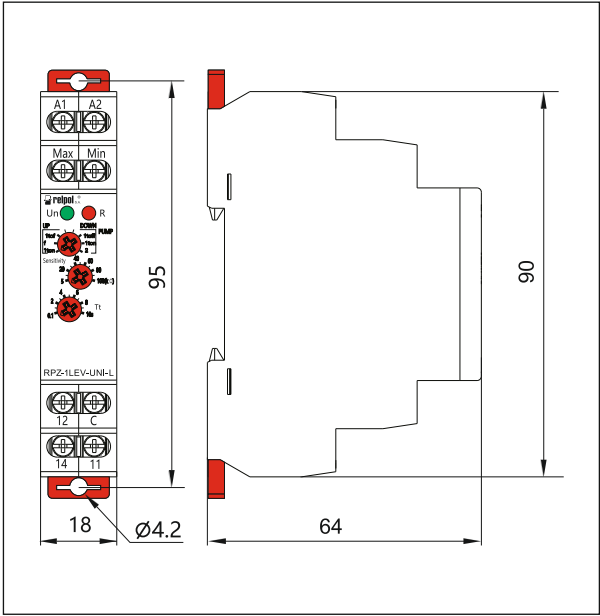
Mounting

Level control relays **RPZ-1LEV-UNI-L** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position—any. Connections: max. cross section of the cables: solid wire $1 \times 2,5 \text{ mm}^2$ ($1 \times 14 \text{ AWG}$) or $2 \times 1,5 \text{ mm}^2$ ($2 \times 16 \text{ AWG}$) / with sleeve $1 \times 2,5 \text{ mm}^2$ ($1 \times 14 \text{ AWG}$), stripping length: 6,5 mm, max. tightening moment for the terminal: 0,8 Nm.

Panel Diagram

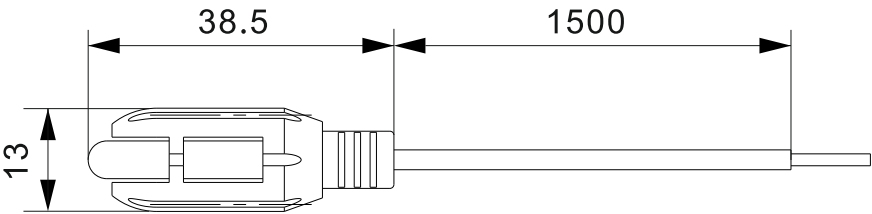


Dimensions (mm)



Probes specifications

Probe material	304 stainless steel
Cable material	Copper core PVC(20AWG)
Plastic material	PA66
Ambient temperature	• storage -35 °C... + 75 °C • operating 0 °C... + 60 °C



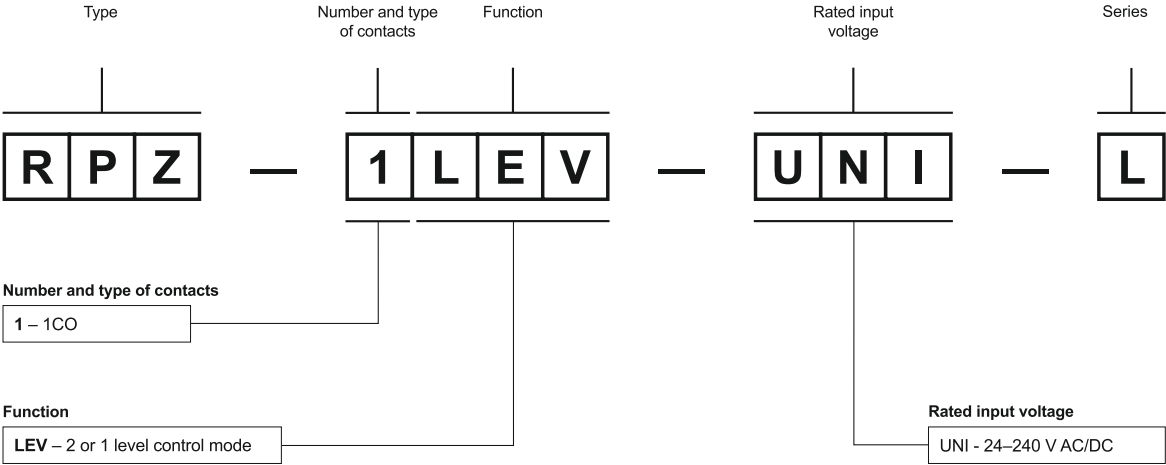
PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

RPZ-1LEV-UNI-L

Level control relay

Ordering codes



The RPZ-1LEV-UNI-L liquid level control relay is supplied complete with 3 probes.

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.