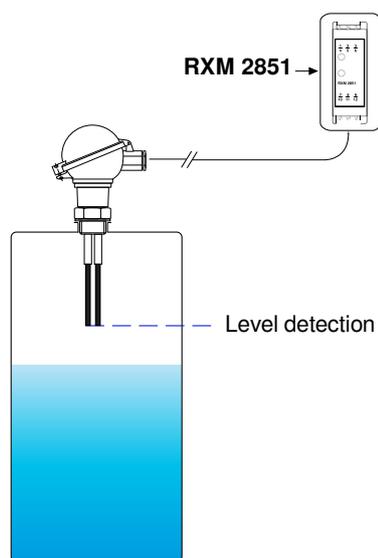


# Resistive level detector RXM 2851



Operation

- For liquids with low conductivity
- Detection range: 4.7 MΩ up to 100 MΩ
- Limit detection adjustment on the front
- Detection between 2 electrodes
- 100 % compatible with our level probes

## APPLICATIONS

- Level control Min. or Max. of highly resistive liquids or solids: Demineralized water (5 to 20 MΩ), Glycerine (≈ 1 MΩ), etc.

## DESCRIPTION

The RXM detects the difference of resistance between the detection electrode and the reference electrode when the liquid comes into contact. The reference can be the wall of the metal container or a second electrode.

To carry out this detection, a DC voltage of 12V is applied between the electrode and the reference.

The value of the resistor to detect varies according the liquid and distances to cover between the electrode and the reference.

### Limit detection adjustment:

The detection limit of the RXM is defined as the maximum value of the resulting resistance of the product for which the detection can occur.

- The detection limit is adjustable between 4.7 to 100 MΩ.
- Take care to use the specific coaxial cable (Ref. CCA) to connect the electrodes to the relay RXM.
- The detection limit potentiometer is accessible after taking off the transparent plastic lid.

### Resistive probes:

Choose the right probe according to operating conditions and the chemical compatibilities (liquid, pressure, temperature, etc.).

See the data-sheets 541-01 to 543-01

## TECHNICAL FEATURES

Power supply	230 V 50/60 Hz Other supplies: On request
Consumption	< 10 VA
Response time	From a fraction of a second up to 3 seconds depending on the detection limit setting.
Ambient temperature limit	65 °C
Relay outputs	2 Changeover contacts, potential free
Switching power	750 W / 380 V / 4 A
Housing	Plastic - DIN Rail Mounting

**EC Conformity:** The instrument meets the legal requirements of the current European Directives.

## CODE NUMBERS AND REFERENCES

Code	Reference	Description
533 100	RXM 2851	Level detector for liquids of high resistance
368 100	CCA/RG62A	Coaxial cable, low impedance

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Resistive level detector  
**RXM 2851**

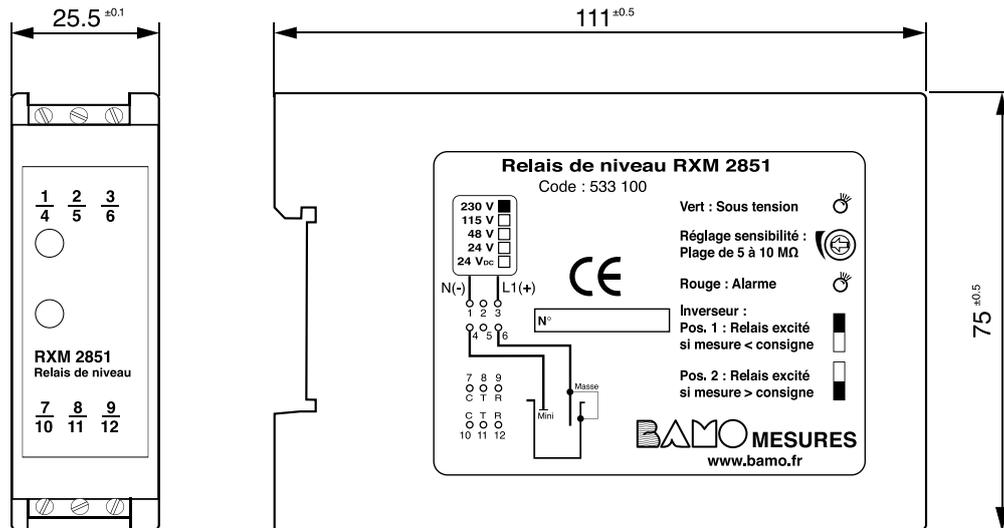
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## DIMENSIONS



## OPERATION

The RXM 2851 detects a level of liquid with associated measuring electrode and reference. The detection electrode will always be connected to terminal Nr. 4 of the RXM. The reference will be connected to terminal No. 6 of the RXM.

### Detection limit:

Access to the detection limit potentiometer located between the two LEDs, after removing the front transparent lid.

### Relay operation:

The red LED lights up when the relay is energized.

A switch on the front panel, allows to reverse the operating direction of the relay:

- **Position 1 = relay energized if the level is below the set point**
- **Position 2 = relay energized if the level is above the set point**

To be set as high level or low level, according the application

### To test the detection limit adjustment:

Disconnect the electrode and the reference; Connect a resistor from 5 to 100 MΩ (in relation with the operating liquid resistor value inside the tank) between terminals 4 & 6.

### To test the relay:

Disconnect the electrode and the reference.

Connect a resistor equivalent to that of the liquid (inside the range of 5 to 100 MΩ), between terminals 4 and 6.

- The red LED lights up if the DIP switch is in position 1.
- The red LED goes off if the DIP switch is in position 2.

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