



ULTRASONIC LEVEL SWITCH

ULS01

I. Application

Liquid level control operating/emergency signaling or pump, valve etc. control.

II. Features

- Easy installation
- No moving parts
- Not affected by type of liquid (electrical conductivity, density, homogeneity etc.)
- Electrically isolated from the liquid
- constant hysteresis 2mm

III. Operating Principle

The sensor operation is based on the difference in the velocities of the ultrasound in passing through the liquid and through the air between two piezoelements (PXE).

When the gap between the two PXE's is not covered by the liquid, the ultrasonic signal attenuates in the air and no output signal is generated.

When liquid level covers about 50% of

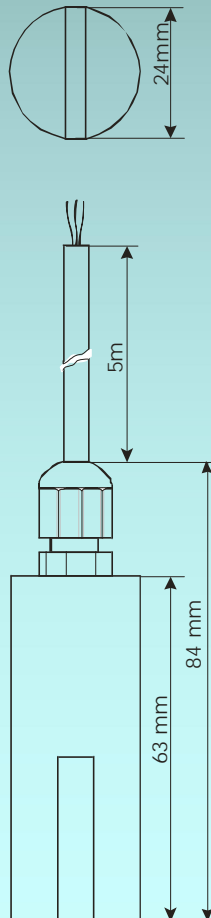
the gap between PXE, an acoustic contact is established and the output switches on.

IV. Installation

The sensor, attached to the cable, is suspended at the desired height in the vessel.

Vessels with significant liquid turbulence may require a rigid fixing of the sensor.

V. Dimensions



VI. Technical Data

supply voltage	– 10 ÷ 24V DC
power consumption	– 100 mW
degree of protection	– IP68
ambient temperature, max.	– 60 ⁰ C
output (electronic switch) max.	– 0,1 A / 36V DC
cable standard length	– 5m

VII. Electrical Connection

