Ultrasonic liquid level transmitter YW03-ES



Technical parameters

Max measure range：5m(with clean, stable and smooth objective level surface)

Blind area：≤300mm(max measure range including blind area)

Accuracy：±0.5%F.S (at 25℃，twice of the blind area, with smooth object surface)

Output signal：4~20mA,two wires,corresponding 0~5m

Beam angle：15°

Display： none

Operation temperature：-10~50℃

Operation power：DC24V,Loop power suppl

The sensor casing material：plastics

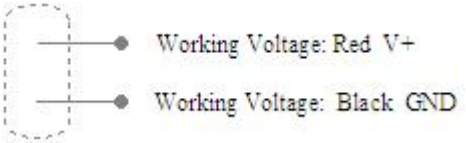
protection level： Sensor IP66(Do not unscrew the water proof connector)

Cable way： water proof connect port, down-lead 1m

Mounting model： screw M68×2.0mm，or sifter clamping

Application environment： constant pressure, NOT explosion-proof, Non corrosive environment

Wiring

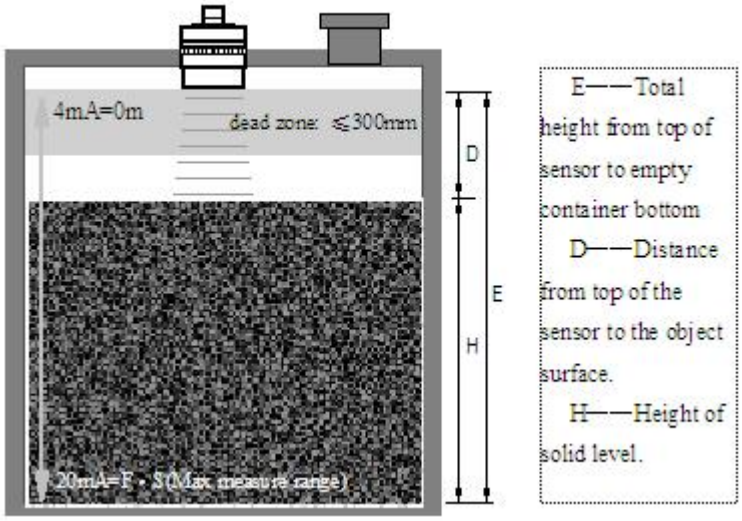


Shape size

See pic below, final size and shape please refer to the product supply, unit:mm



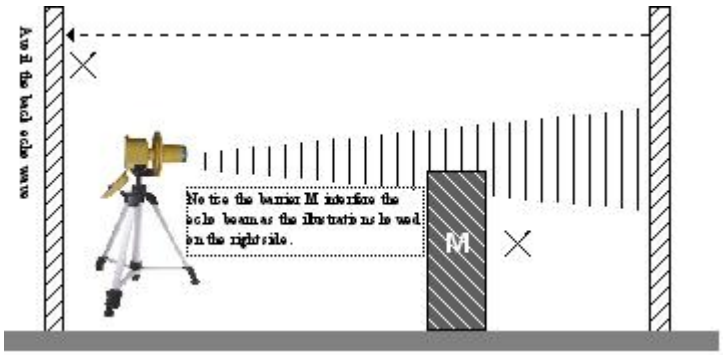
Mounting height settings



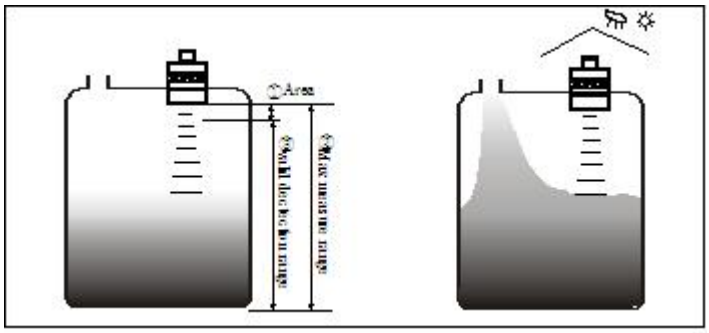
Basic requirement of mounting

When apply the ultrasonic level meter, there should be no barriers between bottom line of sensor and the surface of object level, as well as the radiating area. You should also avoid the facilities inside the tank, eg: ladders, stirring blade, switches, brackets etc. The ultrasound beam should NOT interact with the feeding influx.

Please notice：Highest level should NOT enter the measure blind area, the sensor should be kept some distance to the tank wall(the exact distance is referring to the measure distance and beam angle);mounting of sensor should be kept vertical to the object surface.



◆Mounting illustration:



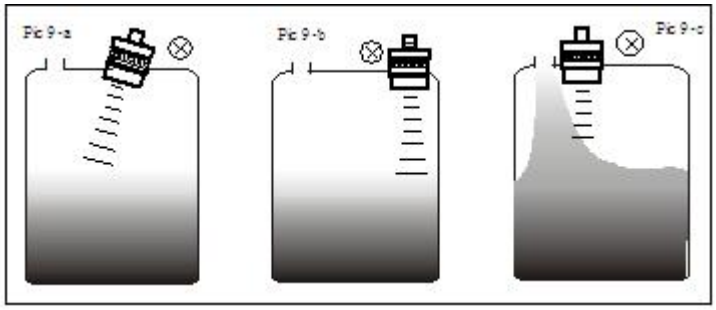
■Measure reference surface is the bottom line of sensor

■Highest solid level cannot enter into the blind area

■Level measurement should avoid the feeding hole, aim the smoother level surface.

■Better use sun/rain shade when mounting in out filed

◆False handling examples:



Pic 9-a: When mounting, bottom of sensor should keep parallel with the object surface, that is to keep sensor vertical to the object surface.

Pic 9-b: When mounting, sensor should be kept distance to the wall surface because of the beam angle of ultrasonic wave.

Pic 9-c: When measuring the object level, the feeding hole should be avoided to prevent the ultrasound echo being interfered.

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