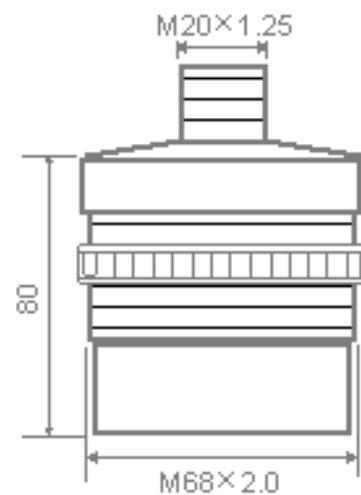


Profiles

ULS10

Ultrasonic Distance/Level Sensor

Profiles



ULS10 Ultrasonic Level Sensor is dedicated to measuring level and distance in industrial conditions.

All gold-plated circuit boards, internal electromagnetic shielding and software digital filter are tested for (industrial) 48 hour under high and low temperature aging. It promises higher and long-term reliability. Shell is made of solid texture and good NLEPF acoustic characteristics of synthetic material. The body is shape sophisticated aesthetics, waterproof, dustproof, and can adapt to the most of working conditions on site. A very quick and easy installation, maintenance can be realized.

Installation

| | | |
|--|--|--|
| | | <ol style="list-style-type: none"> 1. Measure reference surface is the bottom line of sensor 2. Highest solid level cannot enter into the blind area 3. Level measurement should avoid the feeling hole, aim the smoother level surface 4. Better use sun/rain shade when mounting in out field 5. When mounting, sensor should be kept distance to the wall surface because of beam angle of ultrasonic wave. 6. When measuring the object level, the feeding hole should be avoided to prevent the ultrasound echo being interfered. |
|--|--|--|

Features

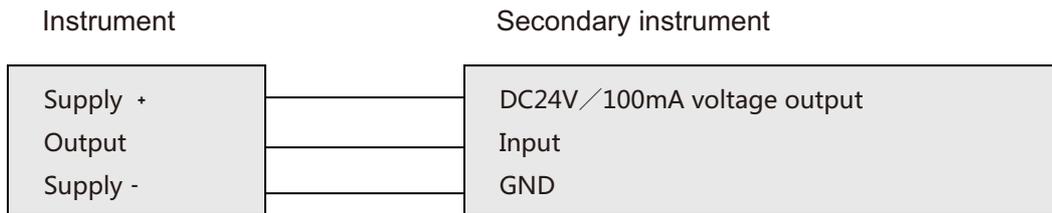
- 1.Support M49*1.5 mm threaded into type installation and coil clamping type installation,the installation more convenient
- 2.Less than 9° Beam angle design ,Resolution 3mm, less than 200ms responsible time to make sure more accuracy
- 3.Wide range of application,Sealed high-temperature toxic volatile,flammable and explosive of strongly corrosive liquid medium level measurement of non-contact ultrasonic sensors.
- 4.Housing adopts the NLEPE synthetic material IP66/ IP68 waterproof,Anti-Skid,Anti-corrosion,Anti-explosion structure
- 5.High quality terminal blocks ,Excellent anti-jamming is strong, long term stability and durability

Specification

| Parameter | ULS10 | |
|------------------|---|-------------------------|
| Level Range | 10,15m optional | |
| Blind area | ≤ 300 ~ 1200 mm (according to different range and sensor) | |
| Beam angle | < 12° | |
| Accuracy | 0.5%FS (at blind-fold drive away, 25 °C) | |
| Output | Analog signal 4~20mA; Load>300Ω; | Digital signal RS485 |
| Power supply | DC24V/300mA | |
| Consumption | < 1.5W | |
| Min. resolution | 1mm | |
| Frequency | 20 KHz~43.0KHz | |
| Protection class | IP66 or IP68 | |
| Explosion proof | Exiall BT4Gb | |
| Operation temp. | -20°C ~60°C | |
| Housing | ABS/ Nylon | |
| Cable | 1 m | |
| Dimension | Φ92mm x 198mm x M60 | |
| Installation | M60 x 2 or Φ61mm hole with gasket | |

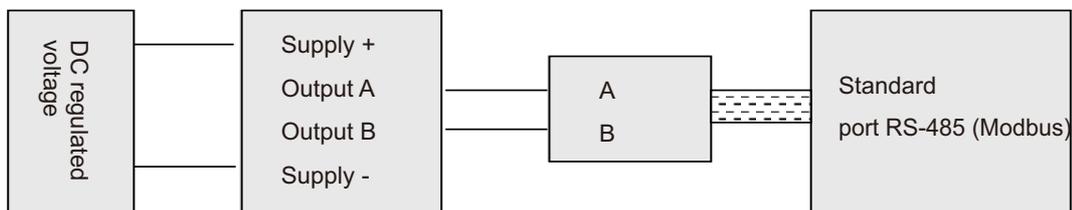
Wiring connection

- 1、Wiring diagram of current output connecting with secondary instrument



- 2、Wiring diagram of RS-485 connecting

External power/ instrument/ 485/ PC



ULS10

Ultrasonic Distance/Level Sensor

Ordering code

Part Number Selection Table

| | | | | | | | |
|--------------------------------|--|-----------|----------|-----------|-----------|-----------|------------|
| ULS10 Selection Type | | XX | X | U2 | RX | XX | 001 |
| Range | 10 Meter 15 Meters | 10 15 | | | | | |
| Water Proof | IP66 IP68 | | A D | | | | |
| Power Supply | DC24V/max 300mA | | | U2 | | | |
| Output | 4-20 mA + RS-485 (Modbus) | | | | RX | | |
| Temperature | 0...50 °C (concerns version IP66) -20...70 °C (concerns version IP68) | | | | | T0 T2 | |
| Cable Length | 1 Meter | | | | | | 001 |

Application



See also:

ULT21 - Ultrasonic Level Transducer



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