

Ultrasonic Level Switch

Manual Book (VER: 1.0)

Shaanxi ShengKe Electronic Technology Co., Ltd

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1. Product warranty and service scope

From the date of shipment, the warranty period of the ultrasonic level switch is one year. This warranty is only applicable to users of the original factory purchaser or designated distributor, and does not apply to users who mistakenly use, modify, neglect, or cause damage due to accidents or abnormal use.

For ultrasonic level switch returned under warranty, free repair is provided. To obtain warranty service, please contact the after-sales service department and attach a fault description. With the permission of our company, please send the product to the after-sales service department.

If the ultrasonic level switch has expired its warranty period or is confirmed to have malfunctioned due to incorrect use, modification, negligence, accidents, or abnormal conditions, a maintenance cost budget will be provided based on the relevant maintenance fee standards, and maintenance will be carried out after approval. After the ultrasonic level switch is repaired, it should be sent back to the customer, and the customer needs to pay for the repair and transportation costs.

2. Unpacking inspection and precautions

2.1 Unpacking inspection

- Manual Book
- Certificate of conformity
- Packing list

- Ultrasonic Level Switch

2.2 Precautions

- Please read this manual before using the ultrasonic level switch.
- Modifications caused by product upgrades are subject to change without prior notice. Please refer to the actual product as the standard

3. Storage and transportation

3.1 Storage

- Storage Temperature: - 40~+60 °C
- Using the original packaging

3.2 Transportation

- Using the original packaging
- During transportation and storage, collision and chemical erosion should be prevented

4. Introduction

4.1 Product Overview

A level switch is installed on both sides of the U-shaped metal groove gap at the front end of the immersion sensor, one for

transmitting ultrasonic waves and the other for receiving. Due to the different degrees of attenuation of ultrasound by gases and liquids, when there is gas or liquid in the gap, the signal received by the receiving transducer will have a significant difference. By detecting this difference signal, the current liquid level status can be determined.

4.2 Features

- High voltage resistance: 1000 psig
- Output: $4\pm 1\text{mA}$ dry , $16\pm 1\text{mA}$ wet (two wires)
- No moving parts, easy to install
- Power Supply: DC 9V-24V

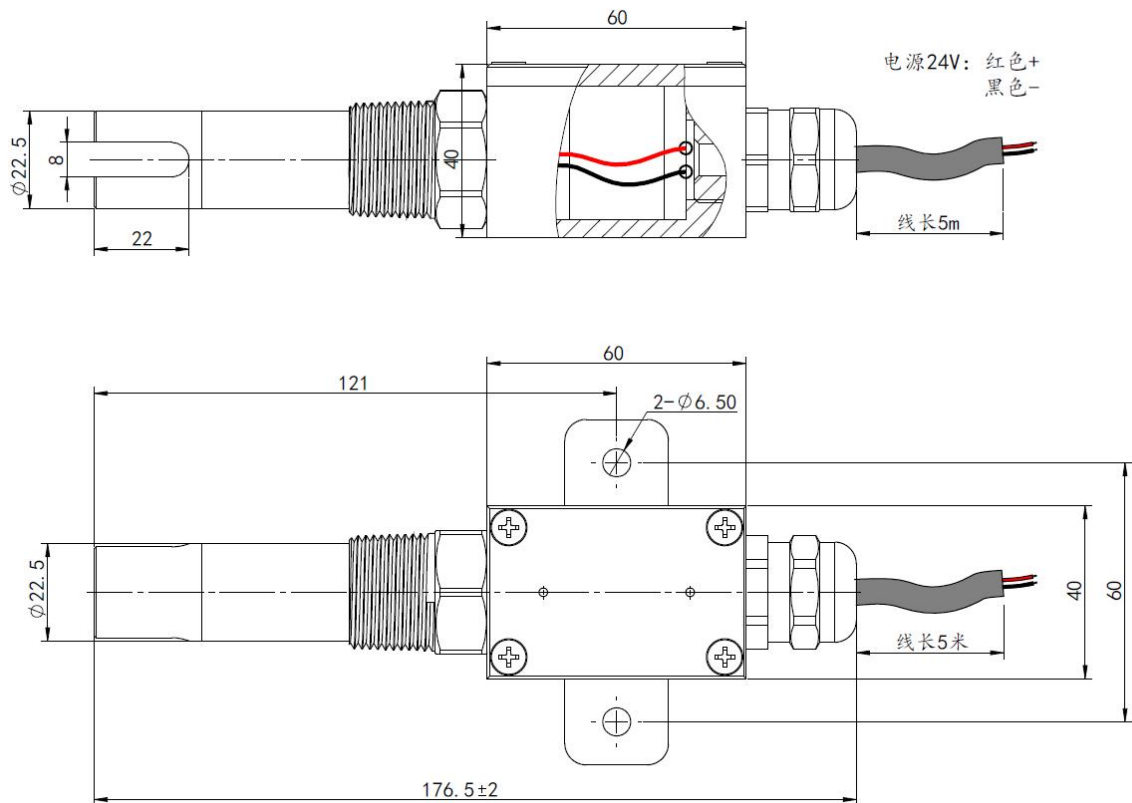
4.3 Specification

Parameter	Typical value
Repeatability error	2mm
Delay	0.5S
Input Voltage	DC 9-24V
Leakage current	$\leq 50\mu\text{A}$
Output	$4\pm 1\text{mA}$ Dry , $16\pm 1\text{mA}$ Wet (two wires)
Housing material	Titanium alloy
Process Temperature	$-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$
Process Pressure	<1000 psig
Installation interface	$2-\Phi 7$

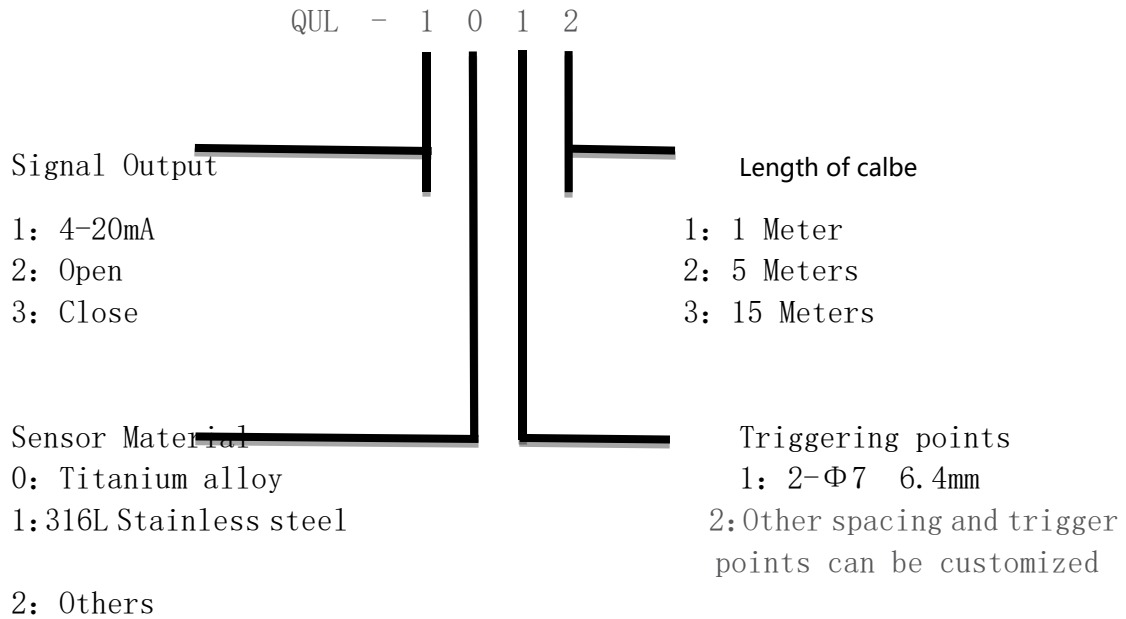
5. Cables Connection

Cable	Power supply
Red	Positive +
Black	Negative -

6. Structure



7. Model Selction



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