

规格承认书

Specifications

Type 产品名称: 无接触式柔性连续液位传感器
Non-contact flexible continuous liquid level sensor

Model 产品型号: ZCT-YOF07-C001

Customer 客户名称:

Signed by Client		客户签名
Confirmed 确认		
Checked 审核		
Approved 批准		

Signed by Manufacturer		生产商签名
Prepared 制定		
Checked 审核		
Approved 批准		

一、简介 Introduction

无接触式柔性连续液位传感器，是一款基于柔性FPC材质的可弯折液位传感器。它直贴容器外表面，采用无接触方式感应液体，与专用标定板配合使用，实现新应用场景液位检测快速验证。操作简便，数码管直接读取并显示液位。不占空间，超轻超薄，可用于曲面容器。是一款能够灵活应用于各类紧凑型产品的优选液位检测产品。The non-contact flexible continuous liquid is a liquid level sensor based on flexible FPC material. It is directly attached to the outer surface of the container, and adopts contactless liquid sensing method. It can be used with special calibration board to achieve rapid verification of liquid level detection in new application applications. Easy to operate, nixie tube directly read and display liquid level. It takes up no space, is ultra light and ultra-thin, and can be used for curved containers. It is a preferred liquid level detection product that can be flexibly applied to various compact products.



二、特点 Features

- 1) 非接触方式感应;
Non-contact liquid sensing ;
- 2) 集成化程序高;
Highly integrated;
- 3) 超轻超薄，不占空间，弧形容器也适用;
Ultra light and ultra-thin, no space, arc container is also applicable;
- 4) 数字(IIC)输出和模拟 (PWM 电压信号) 输出，液位实时显示。
Digital (IIC) output and analog (PWM signal) output, real-time liquid level display;

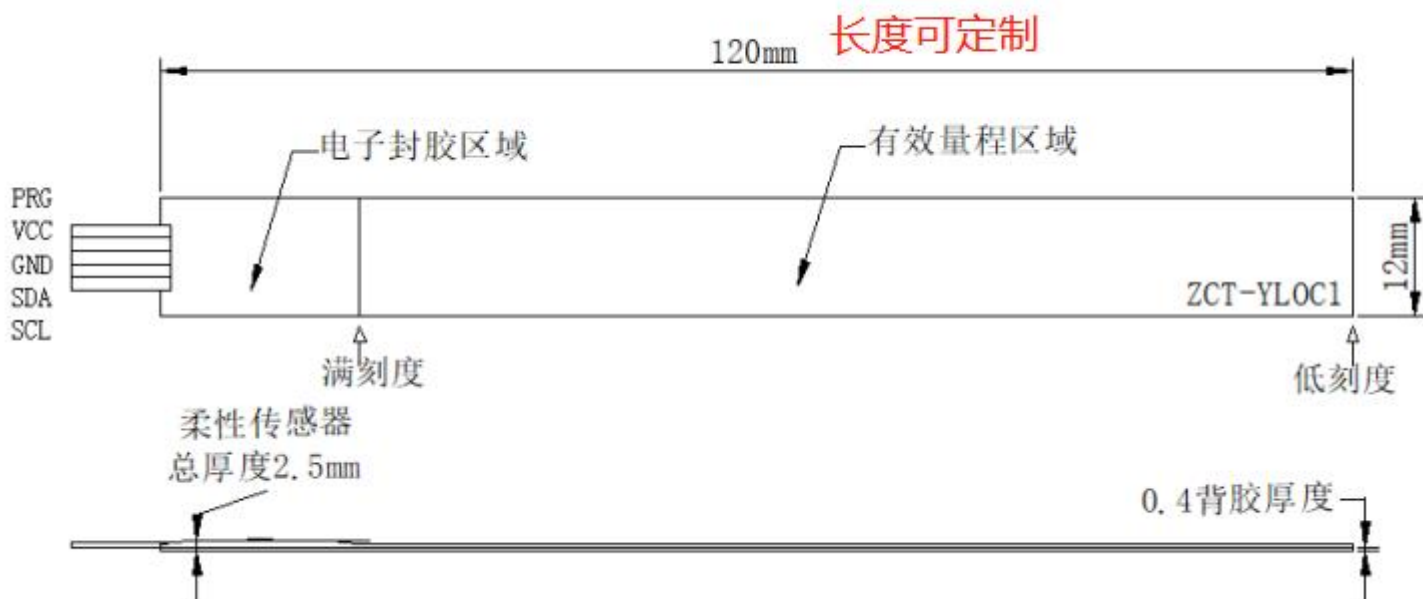
三、应用 Application

- 1) 适用液体：蒸馏，矿物质，纯净水，酒，油，奶，果浆，胶，墨，化工，制剂等；
Special liquid sensing: distillation, minerals, pure water, wine, oil, milk, juice, glue, ink, etc;
- 2) 适用行业及产品：饮水机，咖啡机，制冰机，空调扇，香薰机，加湿器，除湿机，蒸汽产品，果蔬清洗机，扫地机器人，智能消杀，植物观察箱等含液体产品；
Various electrical appliances: Water dispenser, coffee maker, ice maker, air conditioning fan, aromatherapy machine, humidifier, dehumidifier, Steam clean, fruit and vegetable washing machine, Sweeping robot, Intelligent disinfection, plant observation box, and other contains liquid products;
- 3) 物联网：智慧医院（消毒监控），智慧农植（农药喷洒），智慧城市（雨量感应）；
IOT: Smart hospital (Monitor sanitizer), smart farming (Spray pesticides), smart city (Rain sensor);
- 4) 其他应用：other applications.

四、 参数 Parameter

电压Voltage	3~5.5VDC
电流Current	2mA (5v) 1ma (3v) Sleep mode(8uA)
迟滞Response	±0.25%FS
输出OUTPUT	实时液位对比值Real-time liquid level comparison value
容器厚度 thickness	<5mm
介质Spacer medium	非金属介质Non-metallic medium
液位误差 Deviation	±3mm
防护等级Protection level	IP62
工作温度 Work temp	-20~85℃
材料耐温Resistance of temperature	200℃
引线方式 Lead mode	I2C数字输出: 5pin PWM输出: 6pin
重量weight	3g

五、 外型尺寸Dimension

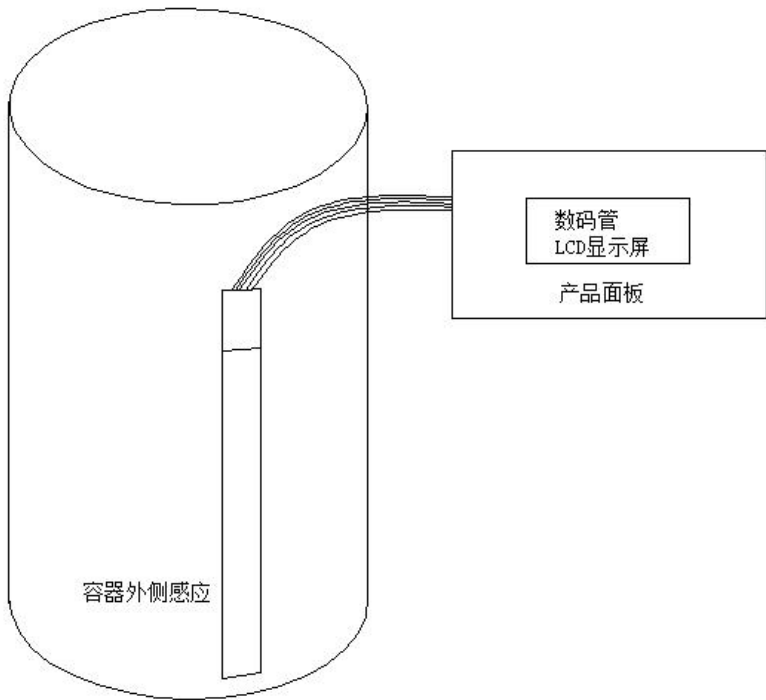


六，接线与安装说明 Wiring and installation instructions

1.接线说明Wiring Notes

序号	项目Pin	定义definition
1	PRG	烧录接入9.2V
2	VCC	2.8-5.5V (V+)
3	GND	Ground (V-)
4	SDA	IIC数据端口
5	SCL	IIC时钟端口
6	AD	PWM电压输出

2.安装说明 installation instructions



七，注意事项 Matters needing attention

- 为避免干扰，传感器10mm范围内，无导体或其它异物靠近；
- 为避免传感器受损，切勿带电操作；
- 接线端子反接、错位或供电超出额定值，可导致电子器件件永久损坏；
- 产品存放与运输，请远离化学污染源；
- 请参照产品相关标准执行。
- In order to avoid false triggering , avoid conductive objects laid within 10 mm around the sensor;
- In order to protect the sensor from damage, it is not allowed to operate with electricity;
- Reverse connection of the terminals, exceeding the rated value, will cause damage to electronic components;
- Store and transport the product, please keep away from the source of chemical pollution;
- Please refer to relevant product standards for implementation.