规格承认书

Specifications

Type 产品名称:无接触式管状水位信号传感器

Model 产品型号:ZCT-YLOQW1

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

无接触式管状水位/水量传感器,是一款内部结构简洁,无叶轮无磁铁, 液体流动不受阻碍,采用无接触方式感应,对饮用水,特殊液体不造成 接触污染,卡壳影响。有液体经过传感器输出低电平,无液体经过输出 高电平,应用在管道内,胶管内,水箱连通的液体感应。

The non-contact tubular water level/water volume sensor is a simple internal structure, no impeller and no magnet, the liquid flow is not hindered, it adopts the non-contact method to sensing, it does not cause contact pollution and jamming effects on drinking water and special liquids. There is a liquid outputting a low-level signal through the sensor, and no liquid is outputting a high-level signal.

Used for liquid sensing in pipes, hoses, water outlet ports of water tanks

二、特点Features

- 1) 不接触液体方式感应; Induction without contact with liquid;
- 2)易于拆装,集成化电路封装;

Easy to disassemble and assemble , Integrated circuit package;

3)稳定性,轻量化,小型化,低成本;

Good stability, light weight, miniaturization, low cost;

4) 出厂标定参数,适合单层/多层产品壁厚;

Factory set parameters, Suitable for single-layer / multi-layer product wall thickness ;

5) Rohs ,Reach, FDA

三、应用Application

- 液位信号采集:防干烧,防溢报警,管道液体监测; Liquid level signal acquisition: anti-dry burning, anti-overflow alarm, pipeline liquid monitoring;
- 2) 特殊液体传感:蒸馏,矿物质,纯净水,酒,油,奶,果浆,胶,墨等; Special liquid sensing: distillation, minerals, pure water, wine, oil, milk, juice, glue, ink, etc;
- 3) 各类电器: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,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, and other contains liquid products;
- 4) 智慧医院(消毒液/药剂监控),智慧农植(无人机农药喷洒),智慧城市(水量感应); IOT: Smart hospital (Monitor sanitizer), smart farming (Spray pesticides), smart city (Rain sensor);
- 5) 其他应用: other apps.





无接触式管状水位信号传感器

Non contact tubular water level sensor

四、	参数Parameter
H \	

电压Voltage	5v Typical (2.5~5.5VDC)		
电流Current	5v 285uA 3.3v 230 uA		
迟滞Response	±0.25%FS		
输出Output	Low level(liquid active)		
感应距离 Distance	间隔的管道壁厚 Pipe wall thickness		
间隔介质Spacer medium	塑胶 Plastic		
液位误差 Deviation	19-39°C±2mm Max±3mm		
防护等级Protection level	IP64		
工作温度 Work temp	-30~85°C		
材料耐温Withstand temp	芯片Chip 85度,封胶Glue120度,胶壳plastic 120度		
电磁测试ESD test	H.B.M3000V M.M300V C.D.M1000V		
闩锁测试Latch-up test	Input test 25mA-100mA Voltage18V		
重量weight	2g		

五、 外型尺寸Dimension











六,安装说明

Wiring and installation instructions

1.引线端子Lead terminal

序号	项目Pin	定义Definition	线材Wire
1	GND	Ground	26# 1007
2	VCC	3.3-5v Input	26# 1007
3	OUTPUT	Analog level	26# 1007

备注:备注:当传感器检测到液体/物体时,输出低电平信号。

当检测到无液体/物体离开时,输出高电平信号。

Note: When the sensor detects liquid, it outputs a low-level signal. When the sensor detects that there is no liquid, it outputs a high level signal.

2.负载电路与安装Electronic circuit and installation method



Random Direction of installation

七,注意事项Matters need attention

---避免将传感器置于小于感应距离的2倍距离,并紧贴被测物体;

---为保障传感器不受损伤,不可带电操作;

---端子接反,超出额定值,将造成电子元件损坏;

---产品存放与运输,请远离化学污染源;

---请参照规格书技术标准执行。

- within the sensor's two times sensing distance, do not have othe objects to trigger it by mistake;

-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 the technical standards of the specification for implementation.