

深圳市能点科技有限公司

SHENZHEN EPT TECHNOLOGY CO., LTD.

规格书
SPECIFICATION



FS-IR2405D

单点光电式液位传感器

Single-point Photoelectric liquid level sensor

版本 Version: A

日期 Date: 2024/08/10

www.eptsz.com

www.eptsensor.com

1. 修订记录 / Revision History

No.	日期/Date	备注/Remark	修订/Revision
1	20240810	MP Version issue	A

2. 应用领域 / Application

医疗设备/Medical devices or equipment

机电设备/ Electrical equipment

需要侦测液体的电器，设备等/ Electrical equipment and devices which need to detect liquid

3. 产品特征 / Product features

输入电压为5vDC

Input voltage is 5V DC wide voltage range

无机械运动部件、可靠性高

No mechanical moving components and with high reliability

防腐蚀性强

Strong corrosion resistance

液位控制精度高

High precision of liquid level control

防水等级 IP67

Waterproofing standard IP67

符合 RoHS 要求

The sensor itself satisfies RoHS requirements

响应反馈时间快，安装方式灵活，易清洗避免细菌积淀滋生

Fast Response time, installation method is flexible, easy to clean to avoid bacterial accumulation



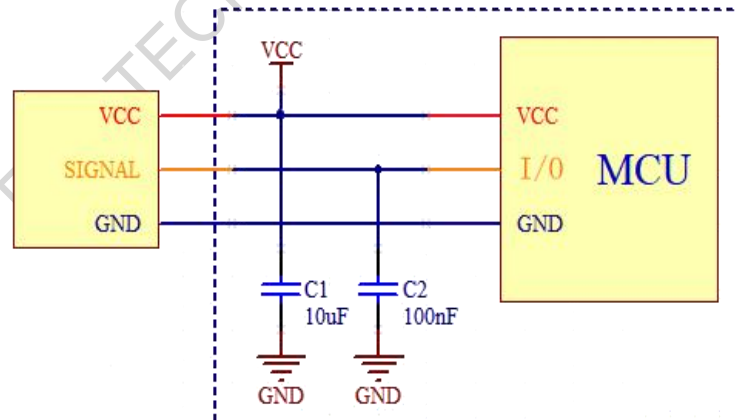
本规格书为相应产品作业之标准，在客户确认后，会作为生产、供货的依据。如有特殊要求，可告知联系你的市场部人员，并出具承认书。

This specification is the standard for the operation of the corresponding products. It will be used as the basis for production and supply after confirmation by the customer. If you have special requirements, please contact our sales and issue an acknowledgement.

4. 电气参数特性 / Electrical Specification (Ta=25°C)

参数/Parameter		符号/Symbol	条件/Condition	最小值/Min	典型/Typ	最大值/Ma	单位/Units
直流特性 direct-current	工作电压/Working Voltage	VDD		3.0	5	5.2	V
	电流/Current	IDD	VDD=5.0V 有水状态（无负载）/in Water	-	14	-	mA
			VDD=5.0V 无水状态（无负载）/in Air	-	14	-	mA
输出特性 output characteristic	有水状态输出电压/ Output Voltage in Water	VO1	VDD=5.0V Ta=25°C	—	<0.5	—	V
	无水状态输出电压/ Output Voltage in Air	VO2	VDD=5.0V Ta=25°C	—	>4.5	—	V
	输出源电流/Output Current	IOH	VDD=5.0V Ta=25°C	—	1	—	mA
	响应时间/Response Time		VDD=5.0V Ta=25°C	—	0.5	—	s
极限值 limit value	工作温度/Operating Temperature	Topr	VDD=5.0V	-20	—	80	°C
	储存温度/Storage Temperature	Tstg	—	-25	—	85	°C
	工作寿命/Working Time	Wt	VDD=5.0V Totg=25°C	—	50000	—	h

5. 推荐应用电路 / Recommended Application Circuit



6. 应用及检测 / Application & Detection

1. 长期使用过程中，传感器表面因液体杂质产生污垢，轻微的污垢不会影响到传感器的效能，如有严重的污垢产生，导致传感器整体覆盖，则需要提前告知特殊性，以便我方技术部做优化处理。
2. 传感器在阳光直射下会受到干扰，请安装在避免阳光照射的位置内。
1. During long-term use, the surface of the sensor will be dirty due to liquid impurities. Slight dirt will not affect the performance of the sensor. If there is serious dirt covers all the surface of sensor, please inform us the particularity in advance for our technical department to do optimize treatment.
2. The sensor will be affected when exposed to direct sunlight. Please install it away from direct sunlight.

7. 产品尺寸 / Product Size

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