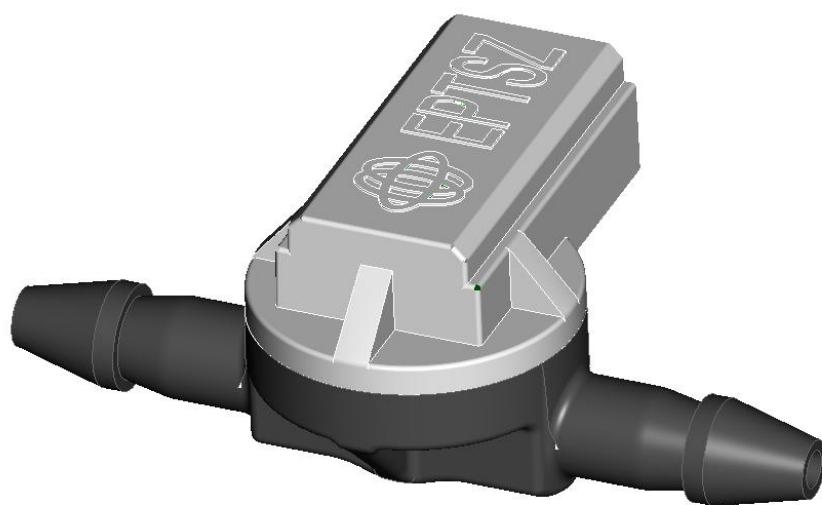


深圳市能点科技有限公司

SHENZHEN EPT TECHNOLOGY CO., LTD.

规格书
SPECIFICATION



PCFS-IR2125A-45

管道式液位传感器

Pipeline liquid level sensor



版本 Version: A

日期 Date: 2022/07/22

www.eptsz.cn

www.eptsensor.com

● 修订记录/Revision History

No.	日期/Date	备注/Remark	修订/Revision
1	20220722	MP Version issue	A

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

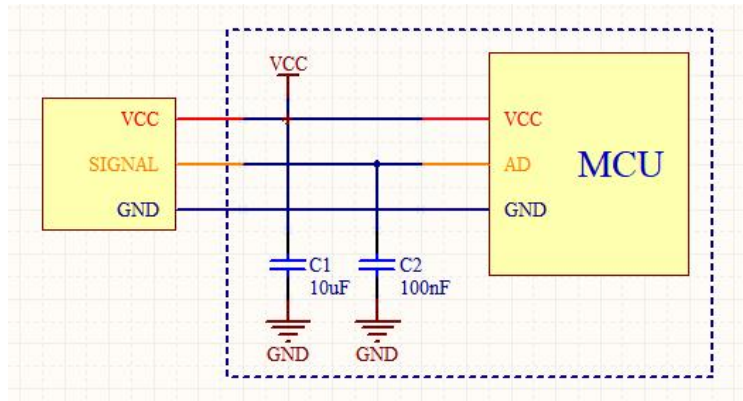
参数/Parameter		符号/Symbol	条件/Condition	最小值/Min	典型/Typ	最大值/Max	单位/Units
直流特性 direct-current characteristic	工作电压/Working Voltage	VDD		3.0	3.3	5.5	V
	电流/current	IDD	VDD =3.3V 有水状态/in water	6	9	12	mA
			VDD = 3.3V 无水状态/in air	8	10	—	mA
	消耗功率 power consumption	PD	VDD =3.3V 有水状态/in water	18	30	66	mW
			VDD = 3.3V 无水状态/in air	24	33	66	mW
输出特性 output characteristic	有水状态输出电压/output voltage in water	VO1		—	<0.5	—	V
	无水状态输出电压/output voltage in air	VO2		—	>2.8	—	V
	输出源电流/output current	IOL	VDD = 3.3V Ta = 25°C	—	10	—	mA
	响应时间/response time		VDD = 3.3V Ta = 25°C	—	100	—	mS
极限值/limit value	工作温度/Operating Temperature	Topr	VDD =3.3V	-20	—	80	°C
	储存温度/Storage Temperature	Tstg	—	-25	—	85	°C
	工作寿命/Working Time	Wt	VDD =3.3V Totg = 25°C	>10万次			
	压力范围/pressure range			—	—	100	KPa



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.

● 推荐应用电路/Recommended Application Circuit



将其按如上电路连接，信号端将输出与水位状况一致的电压信号，此信号作为液位传感器高度控制信号接入 MCU（单片机）A/D（模数转换）口，当有水通过时，此时信号输出为低电压，当管道内无水空抽时，此时信号输出为高电压，具体参数如上表所示。

Connect it according to the above circuit, the signal terminal will output a voltage signal consistent with the water level. This signal is connected to the A/D (analog-to-digital conversion) port of the MCU (single chip microcomputer) as the height control signal of the liquid level sensor. At this time, the signal output is low voltage. When there is no water in the pipeline, the signal output is high voltage. The specific parameters are shown in the table above.

● 包装/Package

说明：

1. 外箱尺寸：40.5X34.5X45 CM

1箱產品數量：3000 PCS

2. 包装盒尺寸：33.5X13.5X8 CM

1盒產品數量：200 PCS

1扎产品数量：20 PCS

Description:

1. Outer box size: 40.5X34.5X45 CM

one box product quantity: 3000 PCS

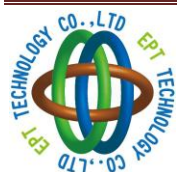
2. Packing box size: 33.5X13.5X8 CM

one box of products: 200 PCS

A sheaf of product quantity : 20 PCS

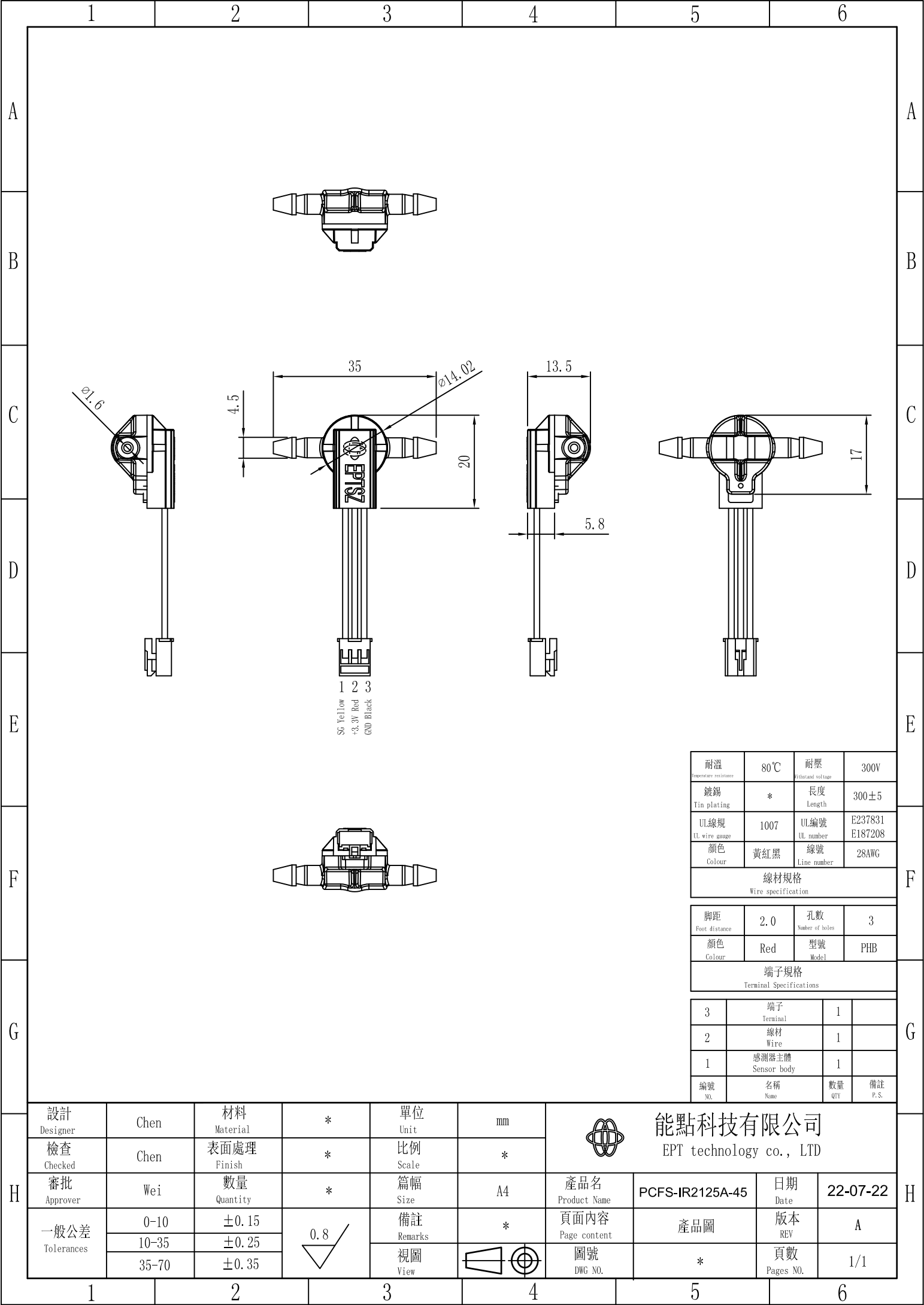


● 产品尺寸/Product Size



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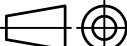
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耐溫 Temperature resistance	80℃	耐壓 Withstand voltage	300V
鍍錫 Tin plating	*	長度 Length	300±5
UL線規 UL wire gauge	1007	UL編號 UL number	E237831 E187208
顏色 Colour	黃紅黑	線號 Line number	28AWG
線材規格 Wire specification			

腳距 Foot distance	2.0	孔數 Number of holes	3
顏色 Colour	Red	型號 Model	PHB
端子規格 Terminal Specifications			

3	端子 Terminal	1	
2	線材 Wire	1	
1	感測器主體 Sensor body	1	
編號 NO.	名稱 Name	數量 QTY	備註 P.S.

設計 Designer	Chen	材料 Material	*	單位 Unit	mm	 能點科技有限公司 EPT technology co., LTD			
檢查 Checked	Chen	表面處理 Finish	*	比例 Scale	*				
審批 Approver	Wei	數量 Quantity	*	篇幅 Size	A4	產品名 Product Name	PCFS-IR2125A-45	日期 Date	22-07-22
一般公差 Tolerances	0-10	±0.15		備註 Remarks	*	頁面內容 Page content	產品圖	版本 REV	A
	10-35	±0.25		視圖 View		圖號 DWG NO.	*	頁數 Pages NO.	1/1
	35-70	±0.35							