

安装指导-高性能金属封装液位传感器

总述

该款液位传感器提供单点检测，多种输出信号，适合多种应用。特别应用于腐蚀性环境，耐高低温，机械冲击和输出大的开关电流。

设计传感器含有一个红外发射源和一个探测器，安装位置精确，以确保两者在空气中达到很好的光耦合。当传感器的锥形端浸入液体时，红外光会透射出锥形面，到达探测器的光强就会变弱。

清洁

根据污染物不同选择不同的清洗液。原厂推荐使用氟利昂和酒精溶剂。禁止使用氯基溶剂，如三氯乙烷等会危害传感器材质。

液体介质是否兼容

使用前要检测下目标液体是否能与PSU材质相兼容。

ELECTRICAL SPECIFICATIONS

供电电压 (Vs) 5 to 12Vdc (±5%) / 10 to 45Vdc (±5%)

供电电流 15mA / 35mA

输出类型 空气中高或低

输出设置 NPN/PNP开漏或推挽数字输出（见第二页）

输出灌拉电流 (Io) 10mA 最大 / 800mA 最大

工作温度 -25 to +80°C (标准型)
-40 to +125°C (高温型)

储存温度 -30 to +85°C (标准型)
-40 to +125°C (高温型)

LLHPA650L1

MOUNTING

螺纹 1/2" BSP or 3/8" BSP or 1/2" NPT or 3/4"-16 UNJF

压力（使用密封垫圈或O型圈） 25 bar 最大

外壳材料 PSU塑料带不锈钢或铜或镀镍铜（见第2页）

传感器端子 多种（见第2页）

WARNING

Personal Injury

DO NOT USE these products as safety or Emergency Stop devices or in any other application Where failure of the product could result in Personal injury.

Failure to comply with these instructions could Result in death or serious injury.

It is the customer's responsibility to ensure that this product is suitable for use in their application. For technical assistance or advice, please email us: info@sstsensing.com

General Note: SST Sensing Ltd reserves the right to make changes in product specifications without notice or liability. All information is subject to SST's own data and is considered accurate at time of going to print.

CAUTION

Do not exceed maximum ratings. Although the sensor is protected against supply reversal, it is not recommended. Do not overtighten screw-in type. Do not use chlorinated solvents. Do not mount with dome pointing downwards. **Failure to comply with these instructions may result in product damage.**

物料号命名

LLHP X X X X X X

传感器元件

A – Uses polysulphone sensor

内部密封垫圈

1 – Nitrile rubber
5 – Viton washer

输出类型

- 1 – Digital Output – High in Air (10mA, 5 to 12V)
- 2 – Digital Output – Low in Air (10mA, 5 to 12V, sinking current only)
- 3 – Push Pull – High in Air (800mA, 10 to 45V)
- 4 – Push Pull – Low in Air (800mA, 10 to 45V)
- 5 – NPN – High in Air (800mA, 10 to 45V) Open collector
- 6 – NPN – Low in Air (800mA, 10 to 45V) Open collector
- 7 – PNP – High in Air (800mA, 10 to 45V) Open collector
- 8 – PNP – Low in Air (800mA, 10 to 45V) Open collector

连接端子

D = M12 x 1 (Brad Harrison micro) (IP67)
H = Amp Superseal 1.5 (0.4m, 3-core cable) (IP67) (Mating part no.: 282087)
I = Cable (0.5 meter) (IP67)
L = Cable (1 meter) (IP67)
M = Cable (3 meter) (IP67)
P = Flying Leads (24 AWG 0.2m) (IP65)
R = Deutsch DT Series (0.4m, 3-core cable) (IP67) (Mating part no.: DT06-3S-CE06)
Other terminations available on request.
Termination options D, H, I, L, M and R have a temperature range of -20°C to +75°C.

外壳材料

- 1 - Deleted8 - Stainless steel 1/2" NPT
- 2 - Stainless Steel 3/8" BSP9 - Brass 1/2" NPT
- 3 - Brass 3/8" BSPA - Nickel plated brass 1/2" BSP
- 4 - Nickel plated brass 3/8" BSP B - Stainless steel 3/4"-16 UNJF
- 5 - Stainless Steel 1/2" BSPC - Brass 3/4"-16 UNJF
- 6 - Brass 1/2" BSPD - Nickel plated brass—3/4" UNJF
- 7 - Nickel plated brass 1/2" BSP

温度范围

0 – -25 deg C to + 80 deg C
1 – -40 deg C to + 125 deg C
At tip end of sensor.

并非所有的组合型号都可以定制，有些需要最小起订量限制；具体请联系Apollo。

输出类型

为了更切合实际应用，传感器输出电路配置为多种不同的输出方式。

LLHPA1XXXX

直接比较器输出
(灌电流和拉电流)

VV+

O/
O/P

0v

LLHPA2XXXX

数字输出（只有灌电流）

Din

VV+

O/
O/P

0
0V

LLHPA3XXXX or LLHPA4XXXX

ITEM = -005
N & P-Channel Open Drain Push-Pull Output
To rest of LL Sensor circuit

Din

V+

LOAD

O/P

LOAD

0V

LLHPA5XXXX or LLHPA6XXXX

ITEM = -003
N-Channel Open Drain

To rest of LL Sensor circuit

Din

V+

LOAD

O/P

0V

LLHPA7XXXX or LLHPA8XXXX

ITEM = -004
P-Channel Open Drain

To rest of LL Sensor circuit

Din

V+

O/P

LOAD

0V