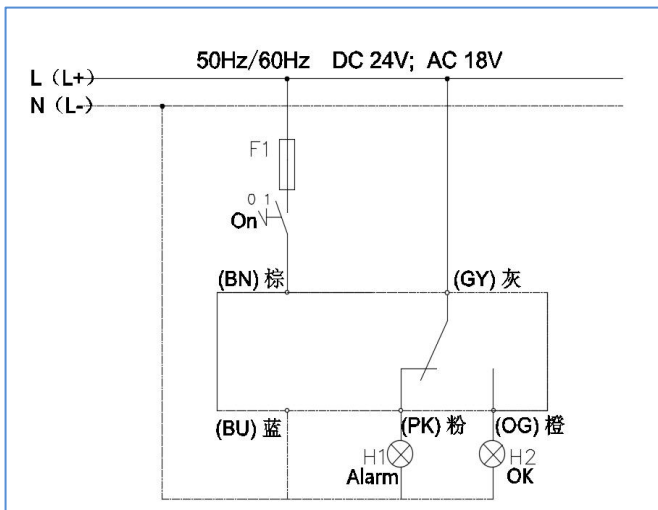
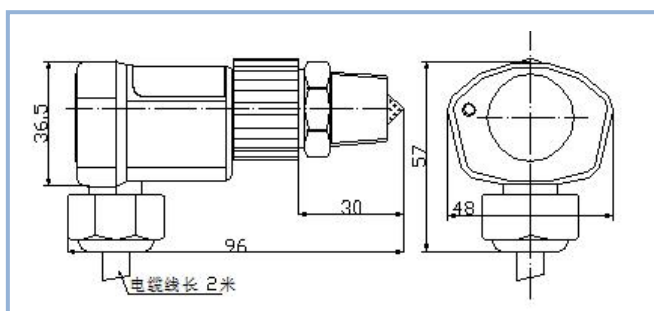


OLC-D24 光电式液位监视器



线路参考图



尺寸图 mm

应用

OLC-D24 光电式液位监视器是非接触式的单点液位监测，用于压缩机、油分离器、储液桶等容器，此监控功能的实现是通过安装在所需测量位置的液位测量棱镜组件(玻璃头)以及可拆卸式光电探测装置(电子头)共同完成。无需从被测设备拆卸油位测量棱镜组件，便可自由更换其探测装置。

液位监视器在接通供电电源并在玻璃棱镜不接触液体时(液位过低)，继电器不吸合，LED 亮红色；当玻璃棱镜接触到液体时(液位在正常区域)，LED 灯熄灭，继电器延迟 5 秒后打开，同时 LED 亮绿色。

LED 灯颜色代码

红色闪烁 (10 次/秒)：电子头未与监测棱镜正确装配
或者内部故障

红色：液位低-继电器断开

绿色：液位正常-继电器吸合

橙色：液位低-继电器延时断开

测试及安装说明

装配玻璃棱镜后 LED 亮红灯，把玻璃棱镜浸入液体中-红色 LED 灭，延时 5S 继电器动作(吸合)并亮绿灯；当玻璃棱镜离开液面时亮橙色灯，8 秒后继电器断开并亮红灯。

安装时保证玻璃头的密封，1/2" -14NPT 玻璃头宜用液体黄胶作为螺纹密封胶，拧入力矩不大于 75N.M，过大的力矩玻璃头容易碎裂，24 小时螺纹密封胶完全固化后，投入使用承压。

M20x1.5, 1-1/8-18UNEF-2A 玻璃头直接套上铝合金垫片拧紧，力矩大于 50N.M(不超过 75N.M)，电子头安装前须检查该监视器(尤其是玻璃棱镜)的清洁度，并在电子头上套上 O 型圈向玻璃头压紧并同时旋合，保证与棱镜精密旋合。

电缆接口朝下。依接线图进行电气连接。

⚠ 必须由专业电气人员安装。

技术参数

监测棱镜组件(玻璃头)

介质温度	-30℃... +120℃
测试温度(4 个循环)	-60℃... +130℃ (3 小时/1 小时)
最大运行压力/爆破压力	46bar/210bar
连接螺纹	订货号
1/2"-14NPT	15G15 460 01
M20x1.5	15G15 461 01
1-1/8-18UNFE-2	15G15 462 01
重量	约 110g

光电探测装置(电子头)

供电电压	DC: 24V -15%...+10% 18mA AC: 18V -10%...+15% 18mA
环境温度	-30...+70℃
环境湿度	20%...90% (不得凝露与结霜)
延时:	
无液体时继电器断开	8s±3s, 橙色/红色 LED 亮
有液体时继电器吸合	5s±2s, 红色/绿色 LED 亮
输出继电器	Max,AC 240V 2.5A C300 Min,AC/DC >24V >20mA
机械寿命	约 1 百万次(开关循环)
连接线	5 芯电缆, AWG18#-0.75mm ² L _{长度} =2m
保护等级(EN 60529)	IP54 (连接棱镜)
重量	约 220g

OLC-D24 Optical Level Monitoring



replaced without opening the circuit of the medium to be monitored.

When the liquid level monitoring is connected to the power supply and the glass prism does not contact the liquid (the liquid level is too low), the relay is Off and the LED is bright red; When the glass prism comes into contact with the liquid (the liquid level is OK), the LED light is Off, the relay turns on after a delay of 5 seconds while the LED lights green.

A built-in LED the current status (see flash code)

Red (10Hz) flashing:

Internal error or faulty assembly.

Red LED On: level is too low

Green LED On: level is OK

Orange LED On: low Level for delay

Installation instructions

Mounting: The installer must ensure seal tightness for the specific application. The maximum tightening torque is approx. 75Nm. Clean the inside of the screw-in part as well as the prism. Fit the electrical part in the screw-in part and tighten the coupling ring (torque approx. 10Nm). Pay attention to the position of the lead (cable exit downwards). Complete the electrical wiring in accordance with the attached circuit suggestions. After filling the tank, Check the tightness of all joints.



The unit must be connected by trained electrical personnel.

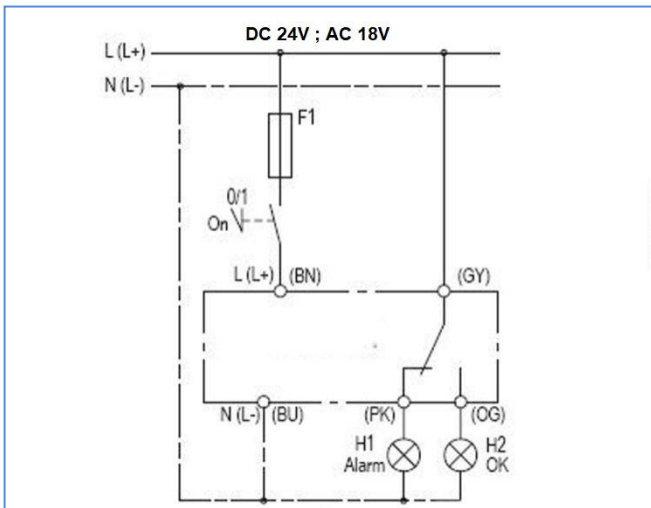
Technical specifications

Screw-in part

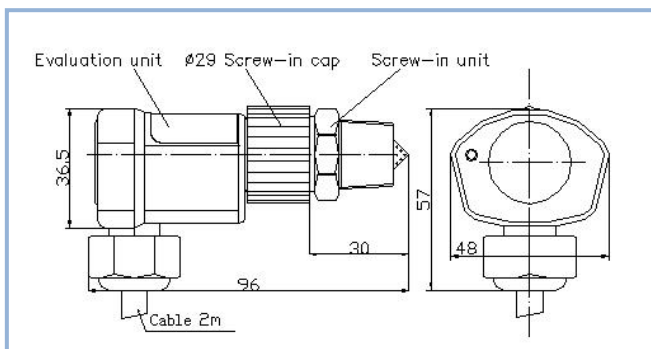
Medium temperature	-30...+120°C
Test Temp.(Four cycles)	-60...+130°C(3h/1h)
Operating/burst pressure	46bar/210bar
Connection thread	Order No.
1/2"-14 NPT	15G15 460 01
M20x1.5	15G15 461 01
1 1/8-18UNFE	15G15 462 01
Weight	Approx.110g

Evaluation unit

Supply voltage	DC: 24V -15%...+10% 18mA AC: 18V -10%...+15% 18mA
Permitted ambient temp.	-30...+70°C
Permitted rel. humidity	20- 90%RH (No condensation and frost)
Delay:	
-Relay off(level missing)	8s±3s, Orange/Red LED On
-Relay On(level good)	5s±2s, Red/Green LED On
Output relay	Max,AC 240V 2.5A, C300 Min,AC/DC >24V >20mA
Mechanical service life	Approx.1million switching cycles
Connection type	5xAWG20#,L=2m, colure coded
Protection class acc. To EN60529	IP54 in mounted condition
Weight	Approx. 220g



Wiring diagram



Dimensions in mm

Application

The optical level monitoring OLC-D24 is employed for contactless single point measurement of fluid levels, e.g. on compressors, tanks etc. The solution consists of a screw-in part and an evaluation unit. The screw-in part for optical level monitoring is permanently built-in at the measuring point. The electronic evaluation unit can be mounted or