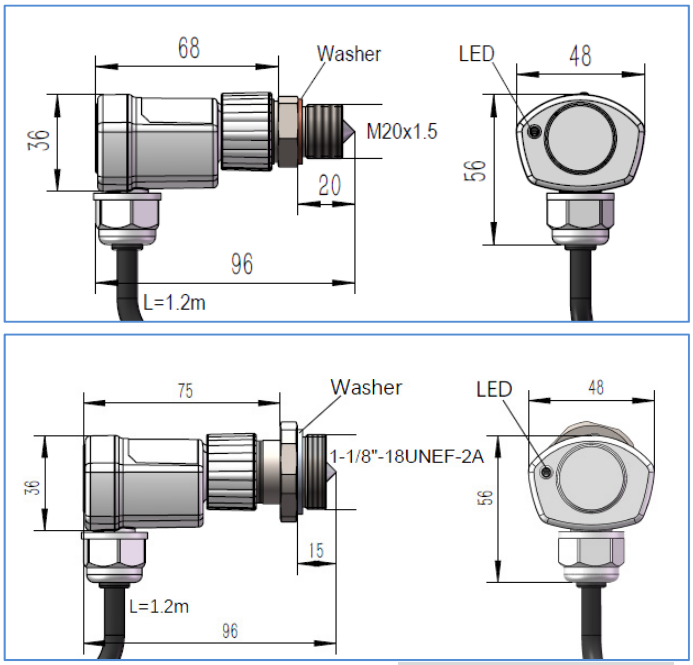
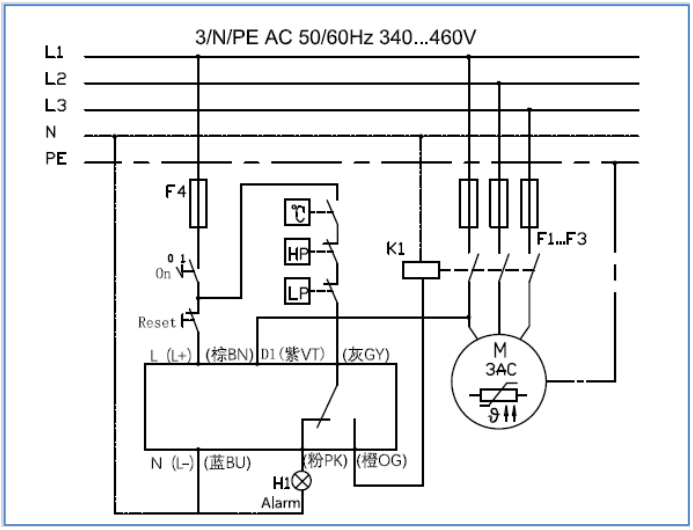
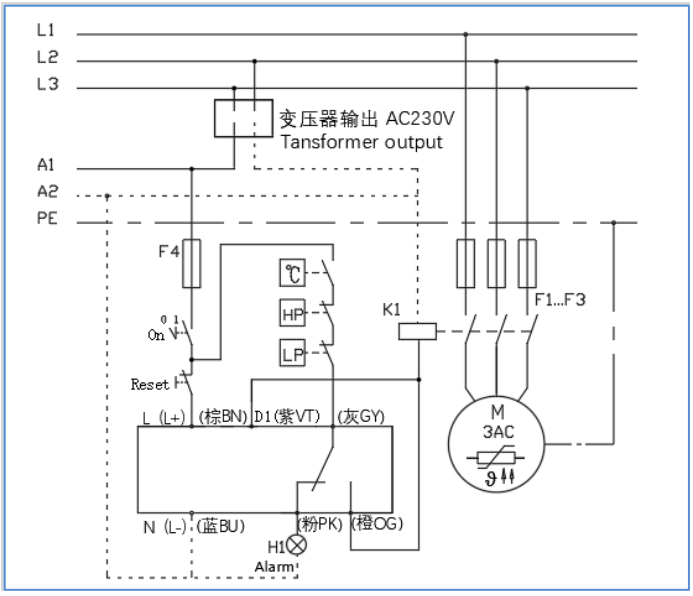
OLC-K 系列光电式油位监视器
OLC-K Series Optical Oil Level monitoring



尺寸图 Dimensions in mm





线路参考图 Wiring diagram

OLC-K 安装于压缩机上，监测油位过低故障。

The OLC-K is installed on the compressor to monitor the fault of excessively low oil level.

OLC-K 系列光电式液位监视器是非接触式的液位监测器，此监控功能的实现是通过安装在所需测量位置的旋入式光学棱镜(玻璃头)以及可拆卸式光电探测装置(电子头)共同完成。
The OLC-K Series optical level monitoring is used for contactless monitoring of the level. This is accomplished by a screw-in optical prism installed at the measuring point for optical level scanning as well as an electronic, removable evaluation unit.

无需拆卸旋入式光学棱镜，便可更换其光电探测装置，因此不会影响系统的密封性。
The evaluation unit can be replaced without opening the reservoir of the monitored media.

油位监视器在接通电源后开始监测油位。
The level monitoring starts to monitor the level after it is powered on.

当接通电源，与光学棱镜联接正确时，继电器延迟 5S 后吸合，当油位低时 LED 亮橙色；油位正常时 LED 亮绿色；
When the level is OK, the relay is turned ON after 5S delay, and the LED is bright green;

当光电平探测装置没有与旋入式光学棱镜联接时，LED 红灯闪烁，继电器延迟 5S 后断开。
When the evaluation unit is not connected with the screed-in optical prism, the LED red light flashes and the relay is turned OFF after a delay of 5 S.

在压缩机启动并经过启动过渡时间后，油位监测便开始生效。
After the compressor starts up and the starting transition time has elapsed, the level monitoring is active.

LED 颜色代码 A built-in LED signals the current status

红色闪烁（10 Hz）：光电平探测装置未与旋入式光学棱镜联接
Red flashing (10Hz): The evaluation unit is not connected with the screed-in optical prism.

红色：油位低故障-继电器断开
Red LED On: Low oil level fault - Relay is OFF

绿色：油位正常-继电器吸合
Green LED On: Level is OK, Relay is On, No error

橙色：液位低-继电器吸合(压缩机未运行或者继电器延时断开中)
Orange LED On: Low oil level –Relay is ON
(Compressor not running or Relay in delayed OFF)

技术参数 Technical specifications

光电平探测装置(电子头) Evaluation unit (Electronic head)

供电电压 Supply voltage	AC 230V, +10/-15%, 50/60Hz, 3VA
环境温度 Ambient temp.	-30...+60℃
接液温度 Medium temp.	Max. +120℃(<1h), Max. +100℃
环境湿度 Relative humidity	最高 Max.95%（不得凝露与结霜） (no condensation and frost)
启动信号(D1)- 注 1 Operating recognition(D1)- Note 1	AC 50/60Hz 230V ±15% L-potential at connection D1
启动过渡时间 Starting transition	90s±15s
开关延时 Switch delay -上电继电器吸合 After applying the supply voltage -油位低继电器延时断开 Relay off(level missing) -断电复位时间 Reset	 3s±1s 6s±2s 锁定 Locked >3s
输出继电器 Output relay	Max,AC 240V 2.5A , C300 Min,AC/DC > 24V > 20mA
机械寿命 Mechanical service life	约 1 百万次（开关循环） Approx. 1 millionswitching cycles
连接线 Connection type	6 芯电缆, AWG20# L 长度=1m Cable 6xAWG-20 L=1m, colure coded
保护等级（EN 60529） Protection class	IP54（连接棱镜） IP54 in mounted condition
外壳材料 Housing material	PA66+GF
安装 Mounting	螺纹连接 Union nut
重量 Weight	约 220g Approx. 220g
订货号	16G15 OLC K01

旋入式光学棱镜（玻璃头）Screw-in optical prism(Glass head)

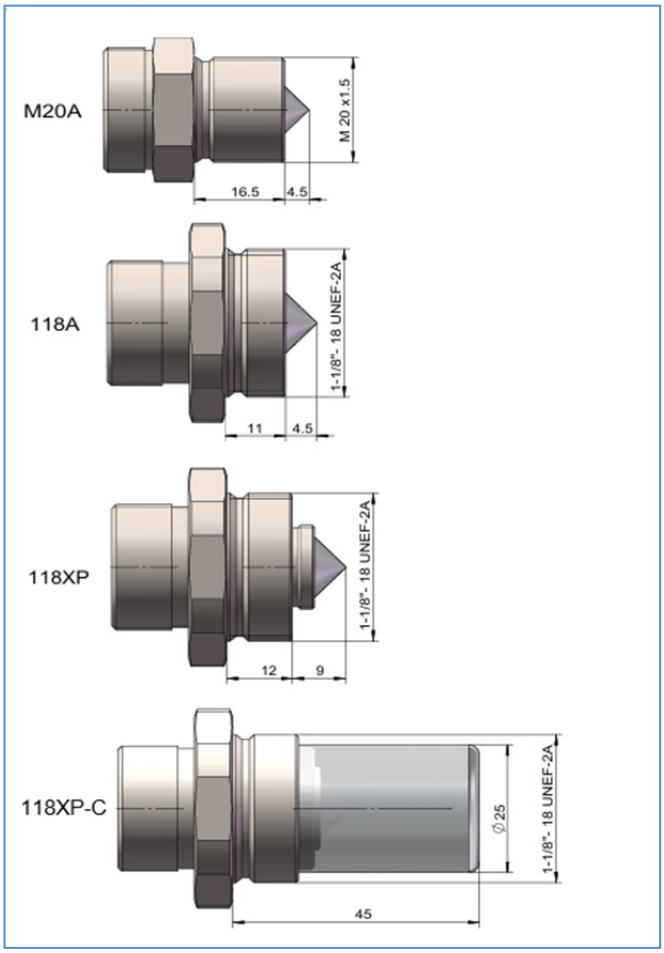
M20A 光学棱镜 运行压力（接液温度）	连接螺纹：M20x1.5 60bar / -40...+125℃
118A 光学棱镜 运行压力（接液温度）	连接螺纹：1-1/8"-18 UNFE -2A 60bar / -40...+125℃
118XP 光学棱镜 运行压力/ 接液温度 (可适用于 CO2 跨临界)	连接螺纹：1-1/8"-18 UNFE -2A 140bar / -10...+125℃ 105bar / -55...-10℃
118XP-C 光学棱镜带隔沫罩	

M20A Operating P / Liquid temp.	Thread：M20x1.5 60bar / -40...+125℃
118A Operating P / Liquid temp.	Thread：1-1/8"-18UNFE -2A 60bar / -40...+125℃
118XP Operating P/Lliquid temp. (Used for CO2 transcriticality)	Thread：1-1/8"-18UN EF-2A 140bar/ -10...+125℃ 105bar / -55...-10℃
118XP-C With Foam shield	
净重 Weight	约 110 克 Approx.110g

注 1：118A,118XP 与 M20A 玻璃头随货附上Φ32xΦ28.5x2 与 Φ24xΦ20x1.1 铝合金垫片。
The 118A,118XP and M20A glass heads are enclosed with Φ32xΦ28.5x2 and Φ24xΦ20x1.1 aluminum gasket.

注 2：118A, 118XP 玻璃头在无压状态低温测试-60℃。
118A, 118XP Glass head is tested at low temperature under no pressure -60℃

注 3: 所有光学棱镜均适用于氨液。All Glass head are suitable for ammonia.



安装说明 Installation instructions

M20A,118A,118XP 玻璃头安装时不需要密封胶，用金属平垫片密封，旋入最大力矩不超过 75N.M。
Installation: The maximum torque of the Glass head is 75Nm and needs to be ensured by a ring spanner or a socket key. After installation, check for leaks.

电子头安装前须检玻璃头的清洁度，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。
Clean the inside of the Glass head. Fit the Electronic head in the Glass head and tighten the coupling ring (torque approx. 6Nm). 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.