ZT0279_ECb

0320

Supersedes

0818

Trusted. Tested. Tough ™

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER
PUMP COMPANY

www.zoellerpumps.com

APak® ALARM INSTALLATION INSTRUCTIONS

For indoor use only.

All electrical and safety codes must be followed in addition to the National Electrical Code and all applicable local codes.

SPECIFICATIONS

This alarm unit monitors liquid levels in lift pump chambers, sump pumps basins, holding tanks, and other non-potable water applications. It features a green "power on" light, a red input light, an audible buzzer, and a silence/test button. Battery backup power is applied by 2 AA batteries, which are not included and must be purchased separately (see Figure A).

ALARM UNIT INSTALLATION

1)   Before installing alarm, remove the 4 cover screws to access battery compartment (see Figure B) and install 2 AA batteries, not included.

2)   Mount the alarm unit securely.

3)   Plug transformer's barrel connector into the APak®. Secure power cord so it does not interfere with or obstruct any other devices.

4)   Plug transformer into standard receptacle.

NOTE: The APak® Alarm should be connected to a circuit separate from the pump circuit.

Installations using AC power and batteries can skip the following explanation and chart. Some installations may require the APak® alarm to be powered by batteries only or by AC power only. To receive appropriate alarm behavior in such installations, see the following chart.

Power choice	Resulting alarm behavior	Do this
AC & batteries	Power outage and low battery alarms.	Insert batteries and connect to power.
AC only	Power outage. No low battery alarm.	Hold the silence button down for about 5 seconds while plugging in the power jack,until the green power LED turns on. This setting will be remembered by the alarm even after a power outage.If this setting is no longer desired, simply adding batteries will remove this setting.
Batteries only	Low battery alarm. No power outage alarm.	Insert batteries. The alarm will not detect AC power if it is never applied.

P/N 083629

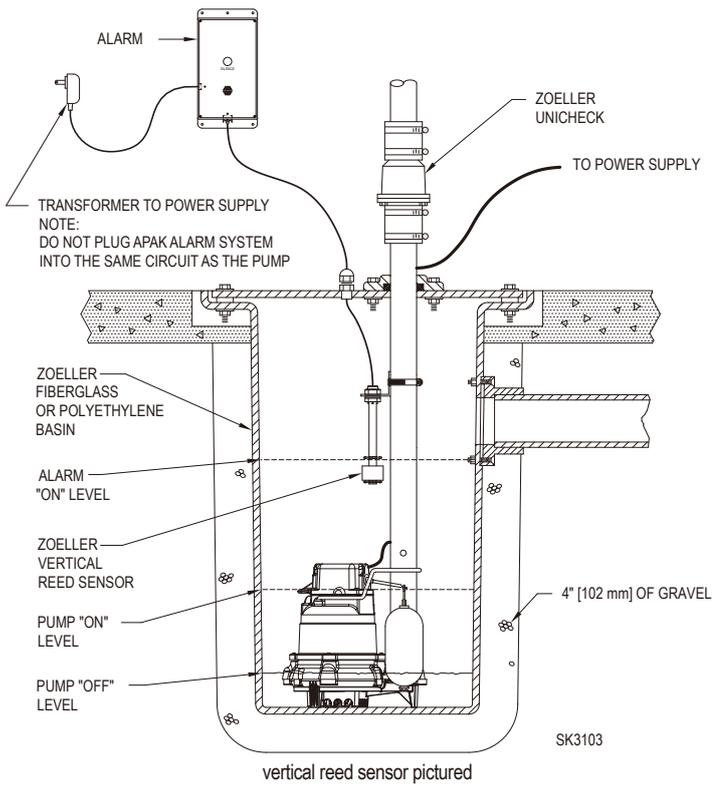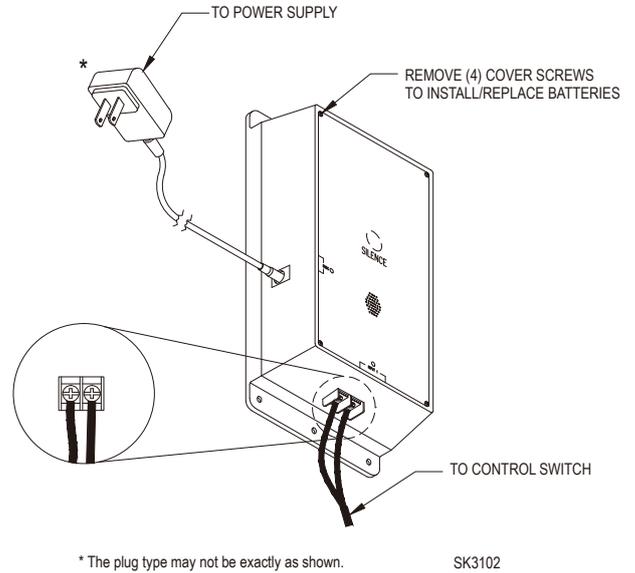**Figure A**

Figure B

ALARM

ZOELLER UNICHECK

TO POWER SUPPLY

TRANSFORMER TO POWER SUPPLY
NOTE:
DO NOT PLUG APAK ALARM SYSTEM
INTO THE SAME CIRCUIT AS THE PUMP

ZOELLER
FIBERGLASS
OR POLYETHYLENE
BASIN

ALARM
"ON" LEVEL

ZOELLER
VERTICAL
REED SENSOR

PUMP "ON"
LEVEL

PUMP "OFF"
LEVEL

4" [102 mm] OF GRAVEL

SK3103

vertical reed sensor pictured

TO POWER SUPPLY

*

REMOVE (4) COVER SCREWS
TO INSTALL/REPLACE BATTERIES

SILENCE

TO CONTROL SWITCH

* The plug type may not be exactly as shown.

SK3102

LIMITED WARRANTY

Zoeller Pump Company warrants, to the purchaser and subsequent owner during the warranty period, every new Zoeller Pump Company product to be free from defects in material and workmanship under normal use and service, when properly installed, used and maintained, for a period of one year from date of installation or 18 months from date of manufacturer, whichever comes first. Parts that fail, (within one year of installation or 18 months of manufacturer, whichever comes first) that inspections determine to be defective in material or workmanship, will be repaired, replaced or remanufactured at Zoeller Pump Company's option, provided however, that by so doing we will not be obligated to replace an entire assembly, the entire mechanism or the complete unit. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement.

This warranty does not apply to any material that has been disassembled without prior approval of Zoeller Pump Company, subjected to misuse, misapplication, neglect, alteration, accident or act of nature; that has not been installed, operated or maintained in accordance with Zoeller Pump Company installation instructions; that has been exposed to but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons or hydrocarbon derivatives (oil, gasoline, solvents, etc), wash towels or feminine sanitary products, etc. or other abrasive or corrosive substances. This warranty is in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

In those instances where damages are incurred as a result of an alleged pump failure,the Homeowner must retain possession of the pump for investigation purposes.

Contact Zoeller Pump Company, service@zoeller.com.tw Attention: Customer Support Department to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty.

ZOELLER PUMP COMPANY EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Original Instructions.

CONTROL SWITCH INSTALLATION

VERTICAL REED SENSOR

⚠ **WARNING**   **DO NOT** install sensor in direct line of incoming liquid.

1) Fasten sensor to right angle mounting bracket by unthreading plastic nut. Re-tighten plastic nut after inserting sensor stem in bracket (see Figure C).

2) Locate sensor at desired activation level and secure mounting bracket to the discharge pipe as shown (see Figures C, D, and E) using supplied hose clamp.

NOTE: DO NOT install cord under hose clamp.

3) Secure sensor cord to discharge pipe. Be sure not to leave any loose cord that could rub against and obstruct other devices in basin assembly.

NOTE: Create a cable strain relief when securing the control switch cord by fastening a 51 mm (2") loop of the cord to the pipe with a cable tie or tape. Be sure the sensor float moves up and down without interference.
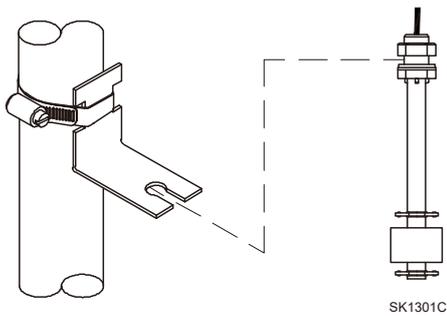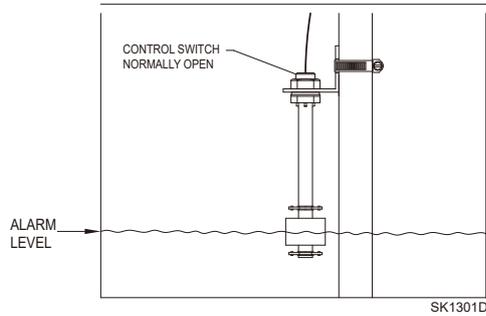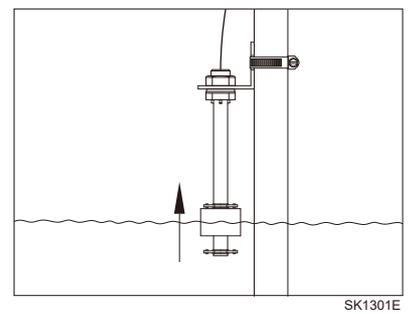

Figure C   **Figure D**   **Figure E**

NOTE: Vertical reed sensor is recommended for sump applications. If it is used in a sewage application, the float should be inspected and cleaned as necessary, after any high water incident.

MECHANICAL FLOAT SWITCH

1) Place cord into clamp and secure to discharge pipe as shown in clamp detail (see Figure F).
   NOTE: Do not install the cord under the hose clamp.

2) Tighten the hose clamp with a screwdriver. **NOTE**: Do not overtighten; overtightening may cause damage to the plastic clamp.

3) Make sure the float cable is not allowed to touch the excess hose clamp band during operation.

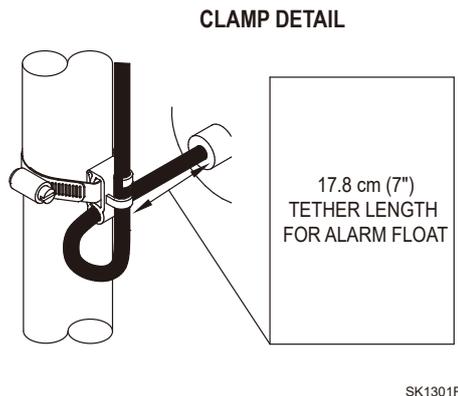4) The float switch must be suspended seven inches below desired activation level (see Figure G).

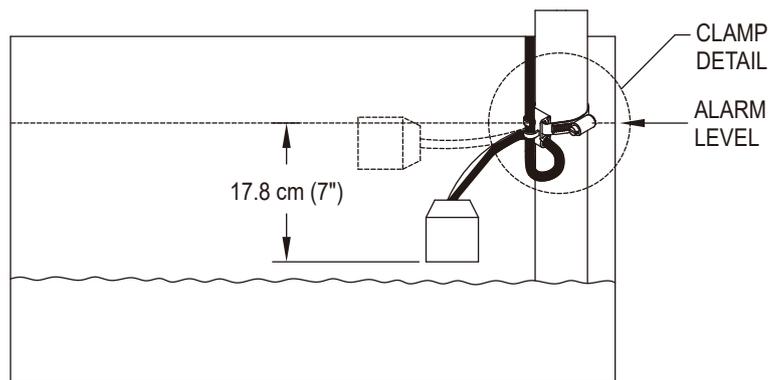**CLAMP DETAIL**

17.8 cm (7")
TETHER LENGTH
FOR ALARM FLOAT

Figure F   **Figure G**

17.8 cm (7")

CLAMP
DETAIL

ALARM
LEVEL

NOTE: Mechanical float switch is recommended for sewage applications.

LIFT PUMP
Suspend control switch above pump turn on level. If a pump failure causes high-level condition, the APak® Alarm System will activate (see Figure A).

HOLDING TANK
Suspend control switch into tank 17.8 cm (7") below desired alarm level. APak® Alarm System will activate if float ascends to alarm level (see Figure G).

CONTROL/MECHANICAL SWITCH WIRING

Connect the two conductors from the control or mechanical switch to the terminations on the bottom of the alarm unit (see Figure B). The control switch operates on low voltage to reduce shock hazards.
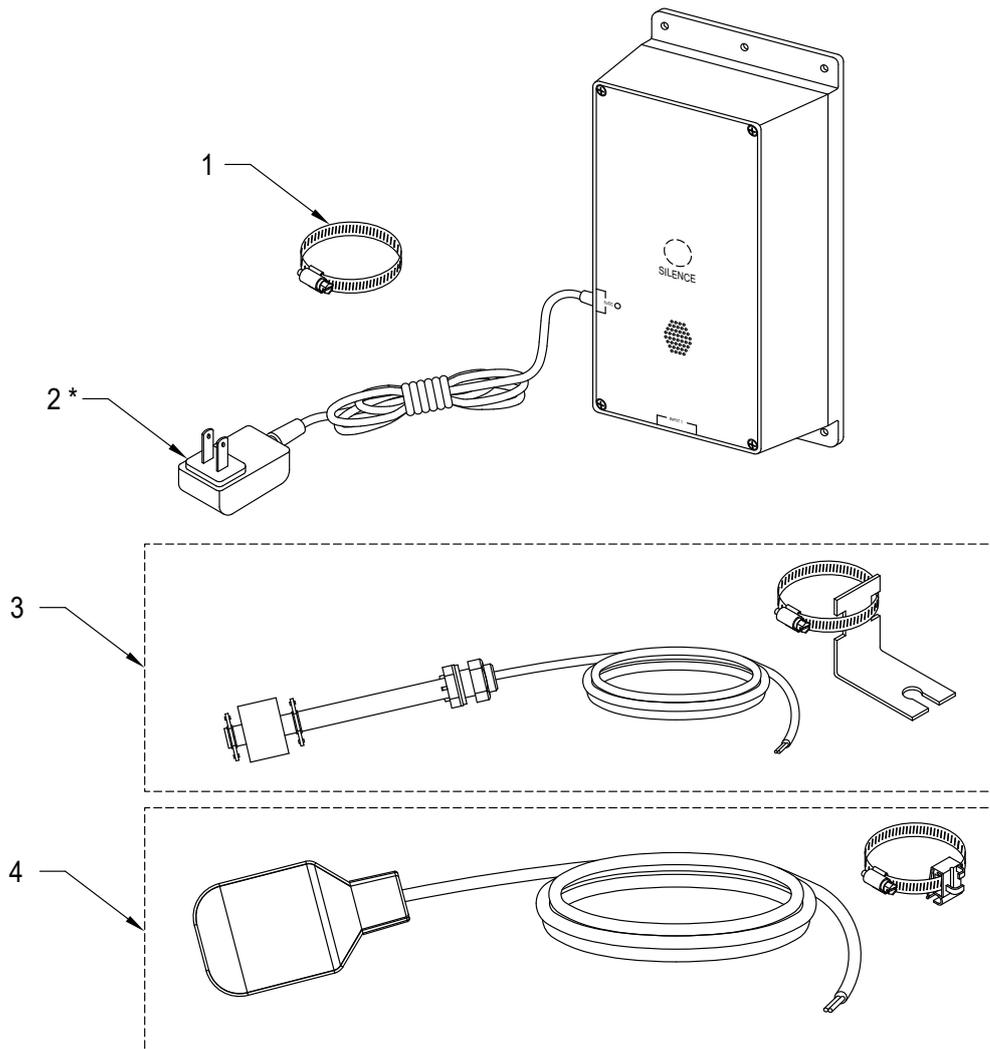
OPERATION AND TEST

Check and test your installation by lifting the float manually (see Figure E or G). The alarm unit will indicate an alarm condition by beeping and lighting a red LED above "Input 1". The alarm may be silenced for 24 hours by briefly pressing the Silence button. Once silenced, the LED changes to a flashing state, and the audible horn will not sound. Once the high-water condition is remedied, the alarm should be reset by holding the Silence button for 3 seconds. Zoeller Company cannot be responsible for damages caused by faulty or negligent installation of this device. We respectfully suggest you engage the services of a qualified licensed electrician or service person. Hold the Silence button for more than 3 seconds to test once per week to verify proper operation.

For internet connectivity, see the Z Control® Enabled APak®

Item	Description	Qty	Part Number
1	Clamp, #36 Worm-SS	1	082274
2	Supply, Power (Service Part)	1	083606
3	Switch, Vertical Reed (Service Part)	1	083788
4	Switch, Mechanical Float	1	083698

* The plug type may not be exactly as shown.

SK3113

These are the original installation instructions.

ZOELLER ®
PUMP COMPANY

www.zoellerpumps.com

APak® 警报器安装说明书

只适合室内使用。

除了关於美国国家电气法规标准和适用於当地法规外，必须遵守所有电气和安全法规。

规格

该警报器可以监测提升器内部、污水水泵槽、储存槽和其他非饮用水装置中的液面高度。它有一个绿色的"开机"灯、一个红色输入灯、一个警报器和一个静音/测试按钮。可由两个标准硷性AA电池做为备用电源，但是这不包含在装置内，必须另外购买（参见图A）。

报警器的安装
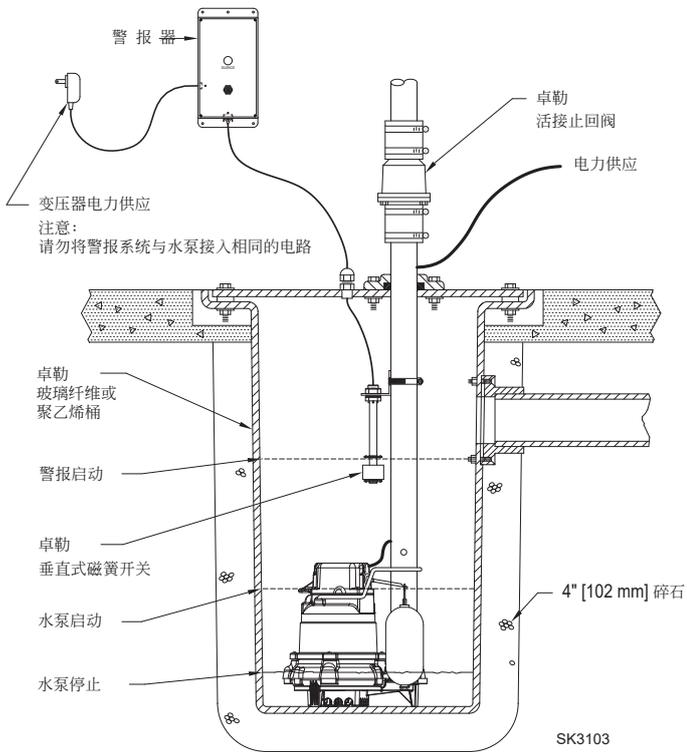
1) 安装警报器之前，需先移除4个螺丝才能打开电池盒（参见图B）并安装2个标准碱性电池，电池不包含在装置内。

2) 安全地装上报警器。

3) 将变压器的连接介面插入APak® 以确保电源线不会被任何其他设备干扰或阻碍。

4) 将变压器插入标准的插座。

注意：APak® 报警器应连接到与泵浦不同的电路线。

使用AC电源及电池的安装可以省略下面的说明和图表。某些安装可能需要APak® 报警器仅由电池供电或仅由AC电源供电。要在此类安装中接收正确的警报反应，请参见下图表。
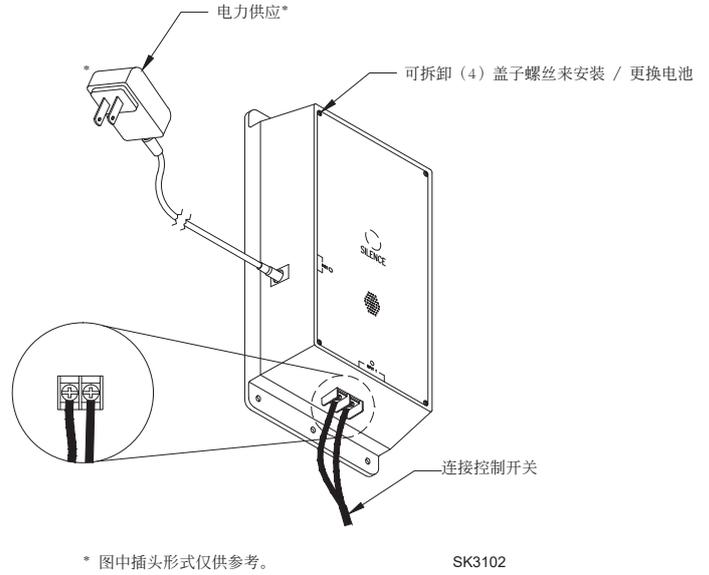
电源选择	产生警报反应	做法
AC电源及电池	断电警报和低电池量	放入电池并连接电源
只有AC电源	低电池量警报失效	按住按钮约5 秒钟，同时插入电源插孔，直到绿色电源LED灯亮起。即使断电后，该设置也将会记住警报。如果不再需要此设置，只需添加电池即可取消此设置
只有电池	停电警报失效	放入电池。如果从未使用该警报，则不会检测到AC电源

图 A

警报器

变压器电力供应
注意：
请勿将警报系统与水泵接入相同的电路

卓勒
活接止回阀

电力供应

卓勒
玻璃纤维或
聚乙烯桶

警报启动

卓勒
垂直式磁簧开关

水泵启动

水泵停止

4" [102 mm] 碎石

SK3103

垂直式磁簧開關圖示

图 B

电力供应*

可拆卸（4）盖子螺丝来安装／更换电池

*

* 图中插头形式仅供参考。

连接控制开关

SK3102

有限的保固

卓勒水泵公司对於保固期间的购买者及後续拥有者，在产品正常安装、使用及维护及保养情况下所发生的材料及制造瑕疵，将免费提供新的卓勒水泵

公司的产品 。 此保固期限为安装日起算一年，或从制造日起算 18 个月，以先到日期为主。发生故障之零件（安装日後一年或制造日後 18 个月，以先到日

期为主），经检查确定为材料或制造瑕疵者 ， 将由卓勒水泵公司进行修理 、 更换或重新制造。但即便如此，我们并无义务更换整个组件，整个机构或整

个装置。有关产品因故障，修理或更换所发生的运费、损坏、劳资或其他费用等并不提供额外津贴。

本保固不适用於以下情况 ： 未经 卓勒水泵公司事先核准 所拆解的任何材料、错误使用、不当使用、人为疏忽、改装、意外或天然灾害；或未依照卓勒水泵

公司说明书的说明所进行的安装 、 操作或维护等 。将产品暴露於（但不限於） 以下情况：沙中、砂砾、水泥、泥浆、焦油、碳氢化合物或碳氢化合物之

衍生物(油，汽油，溶剂等)、清洗毛巾或女性卫生用品等或其他具有摩擦性或腐蚀性的物质中。本保固替代所有其他明示性或暗示性之保固；且我们未授

权任何代表或其他人针对我们的产品代表我们执行任何其他法律责任。

在因涉嫌产品故障而招致损害的情况下，财产拥有人必须保留该产品以供调查之用。

请联络 卓勒水泵公司： service@zoeller.com.tw ，并洽: 客户支援部门以取得任何所需的零件修理或更换 ， 或有关保固的更多资讯。

卓勒水泵公司对於特殊 、衍生性或附带性的 损害赔偿；违反明示性或暗示性 的 保固，将明示免责，且针对某特定目的之适用性的任何暗示性保固及商品

适售性 ，应受限於其 明示性保固期间。

有些地方并不容许暗示性保固期间的限制，因此以上限制可能不适用於您。有些地方不容许附带性赔偿或衍生性赔偿的排他性或限制，因此以上的限制或排

他性可能不适用於您。

此保固提供您特定的法律权利，但也可能因各地方法律规定而变更相关权利。

控制开关安装说明书

垂直式磁簧开关

⚠ 警　告 不要将感测器安装在液体进入的直线中。

1) 松开塑胶螺帽，将感测器固定在安装在直角支架上。将感测器阀杆插入支架后，重新栓紧塑胶螺帽（参见图C）。

2) 将感测器定位在所需的警报启动水位，并使用金属扣环将安装架固定於排水管，如图所示（参见图C，D和E）。

注意：不要将电缆线固定在金属扣环内。

3) 将感测器电线固定於排水管。确保不要留下任何松散电线导致摩擦和干扰桶装系统中的其他设备。

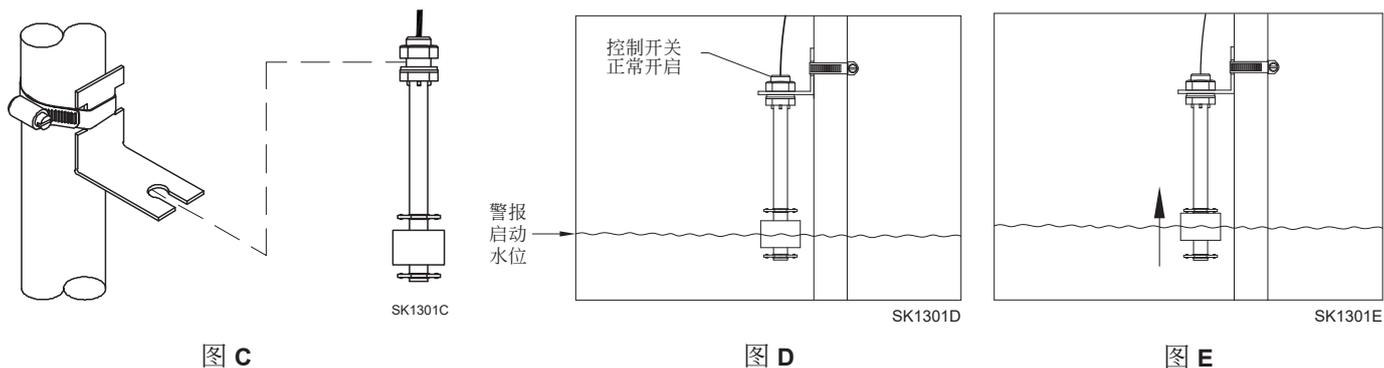注意：制作一个电缆线拉扯时的缓冲，将感测器的电缆线绕成2″的环状再用电缆线束带或胶带固定在排水管上，以确保浮子上下移动时不产生干扰。

控制开关
正常开启

警报
启动
水位

SK1301C SK1301D SK1301E

图 **C**　　　　图 **D**　　　　图 **E**

注意：建议垂直式磁簧开关警报系统使用在污水设备。如果要在污物设备中使用，
需在任何高水位发生後，对浮球进行检查和清洁。

电缆式浮球开关

1) 将金属扣环插入并固定到排水管，如金属扣环图示（参见图F）。

注意：勿将电缆线固定在金属扣环内。

2) 使用螺丝起子栓紧金属扣环。注意：不要栓太紧；过度栓紧可能会损坏塑胶螺帽。

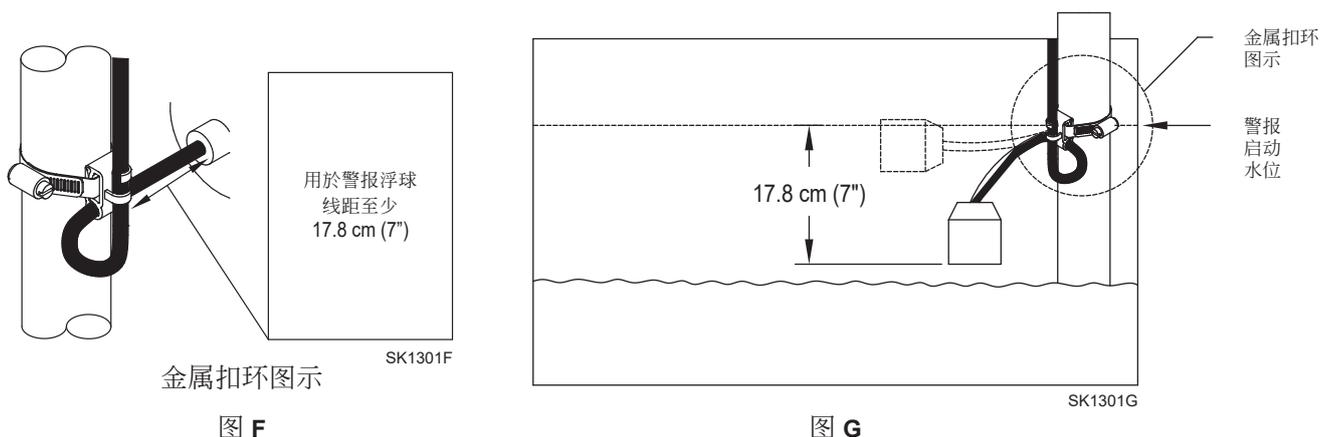3) 确定浮动式电缆在运行期间不会过度的摩擦到金属扣环。

4) 浮球开关必需悬吊在所需的警报启动水位以下7 英寸处（参见图G）。

用於警报浮球
线距至少
17.8 cm (7")

金属扣环
图示

警报
启动
水位

17.8 cm (7")

SK1301F SK1301G

金属扣环图示

图 **F**　　　　　　　图 **G**

注意：建议在污物设备中使用电缆式浮球开关警报系统。

提升水泵
停止控制开关在水泵启动水位上方。如果水泵故障导致高水位状态，APak® 警报系统将会启动（参见图A）。

储存槽
将控制开关悬吊在低於水箱17.8 cm（7″）之所需警报的水位处。如果浮球上升到警报水位，APak® 警报系统将会启动（参见图G）。

控制/机器开关接线

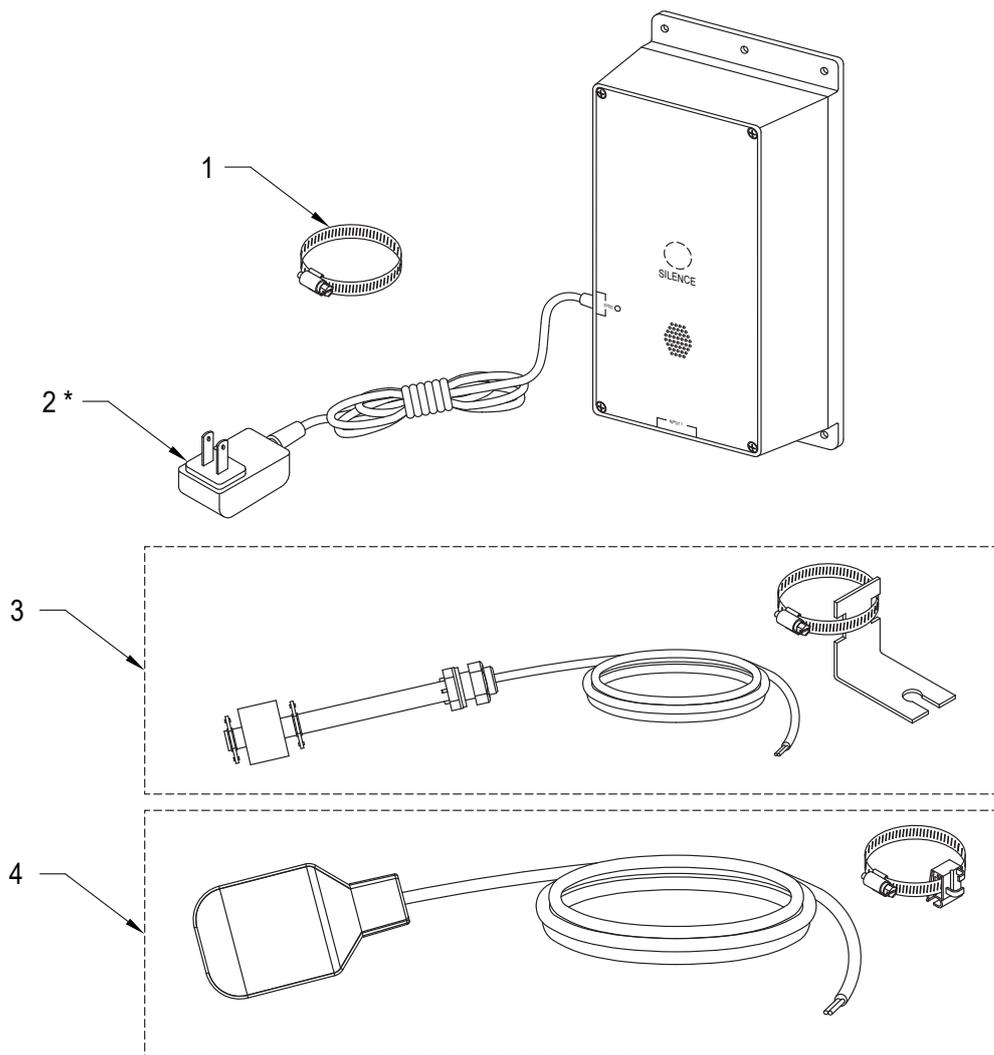将控制或机器开关的两条导线连接到警报装置底部的终止端（参见图B）。控制开关之操作在低电压时，可减少电击之危险。

操作和测试

通过手动升起浮球检查并测试您的安装（参见图E或G）。警报器经由哔哔声和闪灯"输入1"上方的红色LED指示警报状态。可以通过短暂按下静音按钮使警报在 24 小时呈现无声。一旦静音，LED 就会变为闪烁状态，并且喇叭不会发出声音。一旦改变高水位状况，应通过按住"无声"按钮3秒钟来重置警报。卓勒公司不会为此设备的故障或疏忽安装而造成的损害负责。我们尊重您的合法授权水电工或服务人员的服务。按住"无声"按钮超过3秒钟，每周测试一次，以验证操作是否正常。

有关网路连接，请参阅Z控制® 启用APak® 。		

编号	说明	数量	料号
1	金属扣环, #36 Worm-SS	1	082274
2	变压器电源线	1	083606
3	垂直式磁簧开关	1	083788
4	电缆式浮球开关	1	083698

* 图中插头形式仅供参考。

SK3113

這是原始安裝說明的翻譯資料。