



佛山市斯凯韦尔电子有限公司

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磁簧开关

REED SWITCHES

接近开关

PROXIMITY SWITCHES

浮球、液位开关

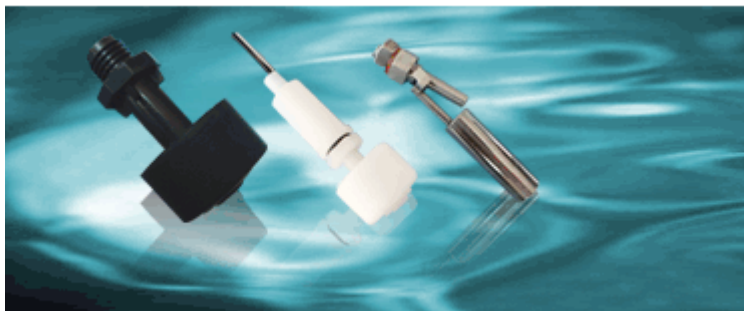
LIQUID LEVEL SWITCHES

浮球

FLOAT

水流开关

FLOW SWITCHES



● 液位传感器

小型浮球液位开关 连杆浮球液位开关
电缆式浮球液位开关 光电式液位传感器
磁翻板液位计 连续式浮球液位传感器

以上液位传感器在汽车, 工业设备, 农业设备, 家用电器中的应用十分广泛. 除各型标准产品外, 可根据客户要求定制。



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斯凯韦尔电子有限公司成立于 2001 年 10 月，开始以拓展业务代理进口销售磁簧开关及电子零配件，多年来在磁簧开关，浮球开关，接近开关及干簧管运用上累积的专业与经验，本公司已享有国内外称许的优良信誉，**斯凯韦尔**一向以其优良的产品与员工素质和表现而自豪，其产品可运用在电话，磁簧继电器、液位开关控制器、通讯器材、防盗系统、自动控制、家电产品、运动器材等消费性电子产品，皆以品质与信用为先；不断征询客户的满意度，一直是公司最介意与坚持的，也是以此作为公司各个部门，以及全体同仁努力以赴的目标，公司每位成员都能克尽职责、与有荣焉，这也是**斯凯韦尔**最引以为豪，而怀抱着企业永续经营的意义所在。

科技一日千里，日新月异，在变化快速的现代环境中，唯有将吸收新知的触角广阔延伸，将专业技术扎实深耕，才能给予客户最完善的服务。我们深信，**斯凯韦尔**的诚恳努力，是每一位客户与配合厂商有目共睹的，成功的果实往往得来不易，盼全体同仁能够继往开来，为新世纪更为宽广灿烂的资讯电子业道路，增添智能与风采。

经营理念 以稳健踏实的精神永续经营。

共 创 客户满意

以专业的品质、平实的价格、诚信服务为原则，
为客户做最完善之规划，让客户满意、信赖与安心， 使客户永远是
我们最佳的事业伙伴。

同仁乐意

以健全的制度、机会的均等、公开公平原则、
培育发展乐业尽能之人才， 创造同仁乐意的长久工作环境。

经营得意

以全员的参与、正派的经营理念原则，
积极开发成长并回馈社会， 让企业经营得意并创事业之永续。

基本信条

忠于职务、勤于工作、互敬互谅、共创共享。

基本精神

用心 — 提升技术 、 专业服务。
创新 — 追求卓越 、 成长创新。
热心 — 积极主动 、 团结合作。
革新 — 新的思维 、 革心格新。



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未来展望：

科技的领域一日千里永无边界；面对整体经济环境的成长及国际化脚步的来临。

斯凯公司将朝以下几个方向发展：

- (一)、引进开发新产品、新技术、朝自动化生产发展。
- (二)、以专业的品质满意客户，开创国际及服务新市厂。
- (三)、建立多角经营，发展相关事业，开创新商机。
- (四)、建立整体资讯管理系统，达成管理自动化。
- (五)、加强专业培训，培植员工素质，提升整体经营水准。



OKI REEDSWITCH 磁簧开关产品型号一览表

型号	触点方式	触点容量	外寸 (mm)		
			玻璃管长	玻璃管径	全长
ORD213	1A	1W	7.0max	φ1.80max	35.8 ± 0.3
ORD213S	1A	1W	7.0max	φ1.80max	13.0
ORD211	1A	1W	10.0max	φ2.0max	35.7±0.3
ORD219	1A	10W	12.0max	φ2.00max	44.3 ± 0.3
ORD221	1A	10W	13.0max	φ2.30max	44.2 ± 0.3
ORD2221	1A	10W	13.0max	φ2.30max	56.7 ± 0.3
ORD228VL	1A	10W	14.0max	φ2.20max	44.3 ± 0.3
ORD228S-1	1A	10W	14.0max	φ2.20max	19.6 ± 0.3
ORD2220	1A	10W	14.0max	φ2.20max	56.7 ± 0.3
ORD229	1A	DC50W/AC70W	21.0max	φ2.75max	55.4 ± 0.3
ORD2210	1A	DC50W/AC70W	21.0max	φ2.75max	55.4 ± 0.3
ORD2210V	1A	100W	21.0max	φ2.75max	55.4 ± 0.3
ORD2211	1A	50W(12V-3.4 灯具)	16.5max	φ2.80max	44.1 ± 0.3
ORD2212	1A	10W	16.5max	φ2.80max	43.9 ± 0.3
ORD234	1A	10W	21.0max	φ3.50max	43.4 ± 0.3
ORD9215	1A	10W	17.0max	φ2.80max	44.1 ± 0.5
ORT551	1C	3W	14.0max	φ2.54max	N.O51.6 ± 0.3 N.C56.1 ± 0.3
ORD311	1A	10W	7.0max	φ1.80max	35.8 ± 0.3
ORD312	1A	30W	12.0max	φ2.00max	44.3 ± 0.3
RA-901	1A	10W	2.5±0.2(W)	2.5±0.2(H)	19.5±0.2(L)

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SKYWEAL

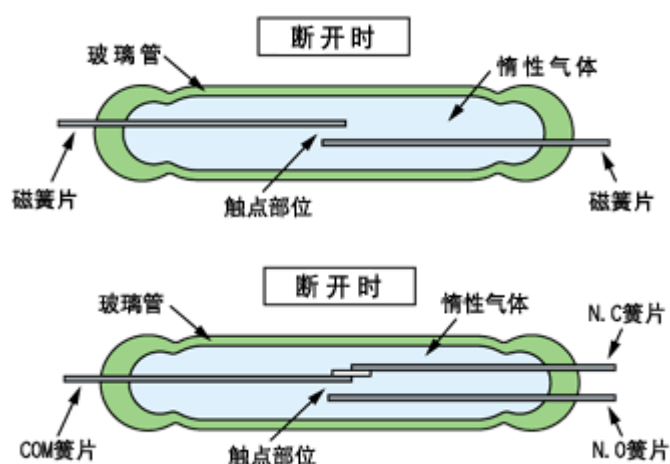


。 本公司的干簧管采用独特技术，即触点表面惰性化处理、高性能自动封装机以及利用磁通扫描方式（FS 方式）的接触阻抗检测技术，因此产品性能极高，在日本国内占有最大的市场份额。另外，从低电压的信号到高电压的信号，我们拥有各种产品可供客户根据自己的用途和目的选择。

干簧管的结构、工作原理

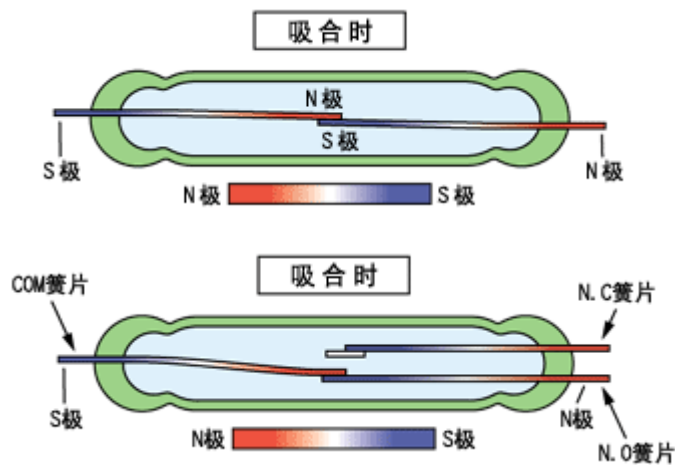
干簧管的玻璃管内装有两根强磁性簧片，将此置于管内一端使之以一定间隙彼此相对。玻璃管内封入惰性气体，同时触点部位镀铱或铱，以防止触点的活性化。干簧管利用线圈或永磁体，为簧片诱导出 N 极和 S 极，后因这种磁性的吸引力而开始吸合。当解除磁场时，由于簧片所具有的弹性，触点即刻恢复原状并打开电路。

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转换型产品，由于 COM 簧片经过机械偏置，通过位于 N.C 簧片的触点部位的非磁性部件保持常开状态。

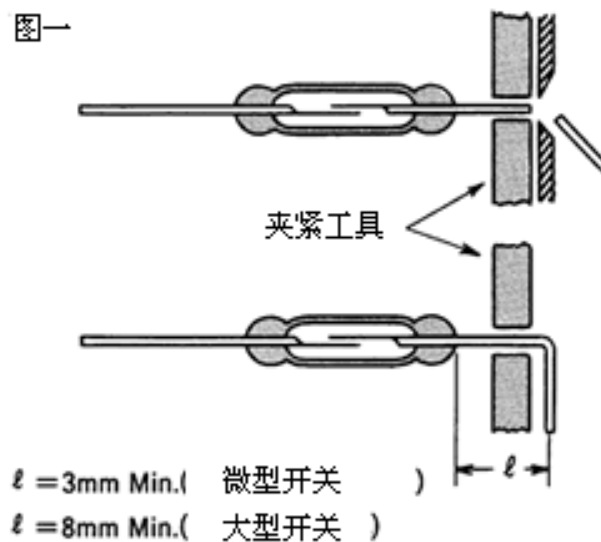
转换型产品，在发生外部磁场的诱导时，由于 N.C 侧的触点部位已被非磁性化，COM 簧片将被吸引到 N.O 簧片侧而开始吸合。当解除外部磁场时，COM 簧片再度移动到 N.C 簧片侧从而恢复原状。



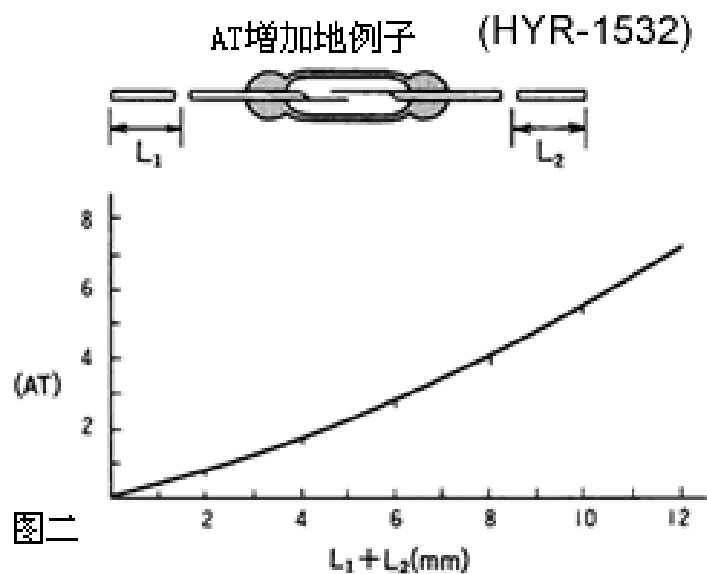
干簧管应用注意

引线脚成型（剪切或弯曲）：

- ◆ 剪切或弯曲干簧管的引线脚时必须极度小心，以免施加不适当的应力而使玻璃—金属密封受到损毁。适当的夹紧工具是必须使用的（见图一）



- ◆ 引脚线的剪切或弯曲时与玻璃封壳末端的建议距离（图一）为微型干簧管，（玻璃封壳长度 ~20mm）最小 3mm，大型干簧管（玻璃封壳长度 30mm 以上）最小 8mm。
- ◆ 由于外部引线角剪短，启动及释放 AT（安培匝数）值将增加，设计时请考虑该因素（见图 2）。相似地，外部引线脚地弯曲亦将增加 AT 值。

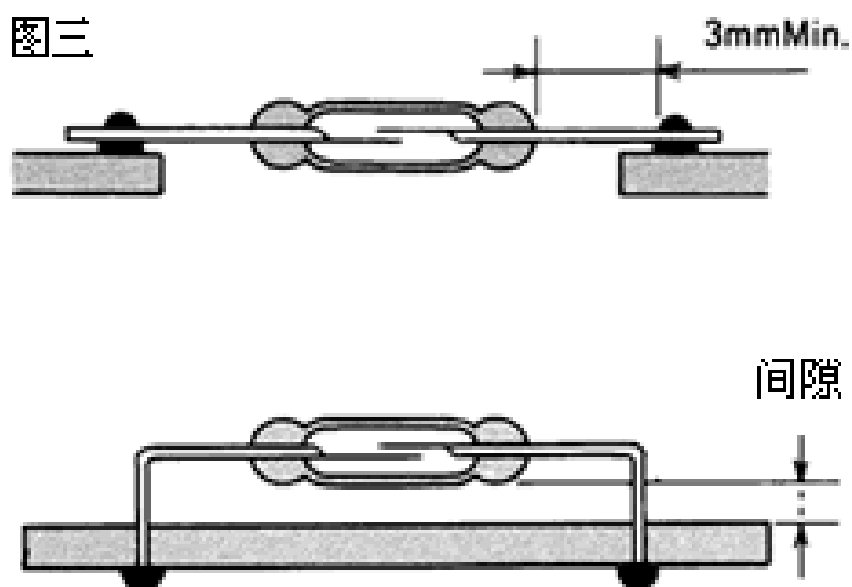


◆遇到温度及过长暴露时间可能会导致玻璃—金属密封损伤（开裂、泄漏等），因此必须采用快速及可靠的焊接技术（过程）。建议的焊接条件为：手焊时 280~300° C，波焊时 250 至 300° C。

◆当焊接干簧管引脚线时，焊接电流产生的电磁场能使开关工作，从而引起触点损坏。焊接时必须采取特别的保护措施，考虑焊接电流、电压及时间。千万不要同时焊接干簧管的两只引脚线。

◆当安装到印刷电路板（PCB）上时必须注意 PCB 板的变形及热膨胀特性，由这些因素引致的应力亦可能损伤干簧管的玻璃—金属密封。

◆当在 PCB 板上安装干簧管时，建议形成引线角并在 PCB 板与干簧管之间留下适当空间，或者将干簧管插入 PCB 板种的开口（切口）种（见图三）



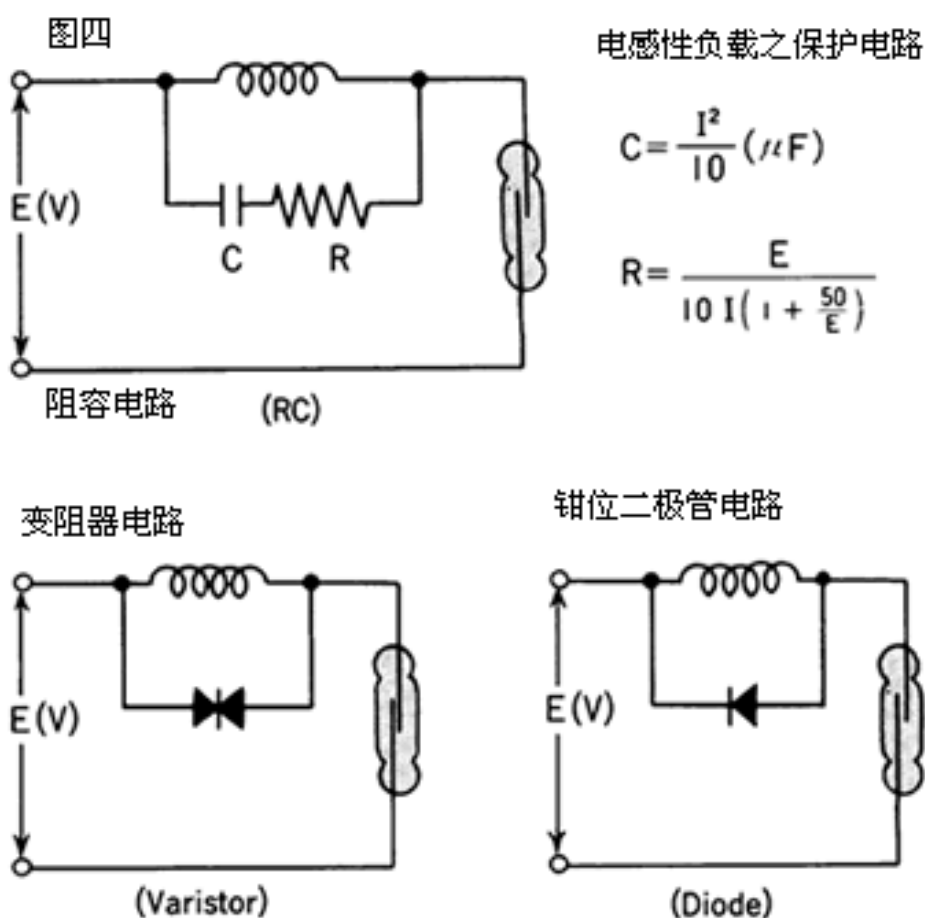
冲击及震动

- ◆ 当干簧管从 30cm 以上的高处跌落一硬表面（地面）时，其电气特性（启动、释放等）将被改变。在一干簧管跌落后，以及在实际使用前，检查并确保其特性仍处于可接受的极限以内。这一措施亦适用于干簧管被施加了拉伸应力或扭曲应力的情况。
- ◆ 不准将干簧管用于比其规定谐振频率以上的场合。

干簧管保护

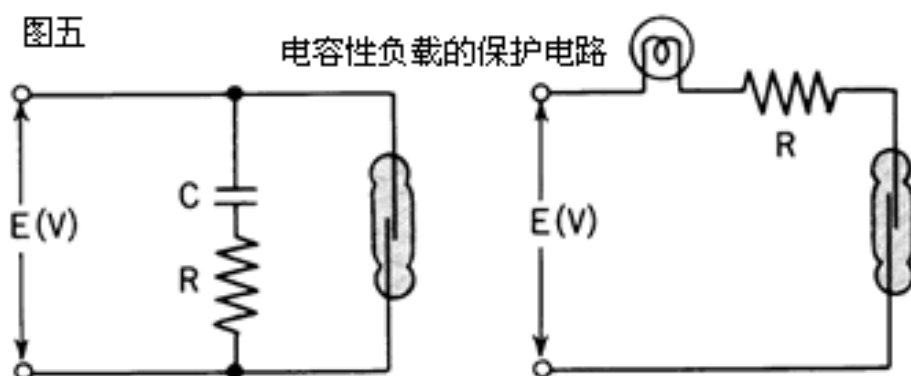
◆ 电感性负载

当将干簧管用于感性负载，例如电动机÷继电器线圈、螺线管等，其触点在（负载电路）触点开路时将加有高感生电压。这种（瞬态）高感生电压可能会损害干簧管或者明显地降低干簧管地寿命。因此建议采用保护电路，例如阻容（吸收）电路、变阻器或钳位二极管电路（见图四）。



◆ 电容性负载

当将干簧管用于电容性负载例如电容器、白炽灯或者长电缆（结束）时，其触点将受到大浪涌电流地冲击。因此建议采用浪涌抑制器或者限流电阻保护电路（见图五）。



外部磁场干扰

◆当干簧管及其激励磁铁或线圈安装在接近如钢板、变压器灯强磁场干扰源地地方时，干簧管地工作特性将被改变且有可能出现误动作。各种特定场合地影响是各不相同地，因此对一给定应用种各种可能存在的干扰（相互作用源）必须予以研究。

◆当在一很靠近地位置上使用多个干簧管，亦可能会出现类似磁场干扰，引致工作特性改变及误动作。若发现存在这种干扰，则干簧管之间必须分隔 15mm 以上距离。

干簧管的主要参数有：

- （1）外形尺寸， ϕD 表示直径， L 表示管的长度；
- （2）吸合安匝，安匝是磁动势的单位，等于线圈匝数与线圈通过的电流的乘积，安匝数越大，产生的磁场越强，吸合安匝是使干簧管常开触点闭合所需要的安匝数；
- （3）释放安匝，是使闭合的常开触点恢复常态的安匝数；
- （4）动作时间（吸合时间），从干簧管加额定值激励时起至触点达到工作状态时止所需的时间；
- （5）接触电阻，指从干簧管的引出端所测得的一对闭合簧片间的电阻值；
- （6）触点容量，等于触点电压（触点断开时允许加在两触点上的最大电压）与触点电流（触点闭合时允许通过触点的最大电流）的乘积



小型浮球液位开关是一种结构简单，使用方便的液位控制零件，它设有复杂的电路，不会受到干扰，只要材质选择正确，任何性质液体、压力、温度皆可使用。

液体性质与浮球关系：

1. 液体比重不同时，浮球的动作位置将会有所变动，一般 SG 比水小时，浮球浸在液体中部分将相对增多。
2. 浮球开关产品参考比重以水（SG=1）所以使用时在选用浮球时须考虑液位的比重 SG，一定大于浮球规格所标示，否则，浮球开关无法浮动。
3. 粘度高不会干涸的液体，一般应选用外径较大的浮球。
4. 球开关是使用磁铁来感应磁簧开关，因此被测液位应无铁屑，否则会影响浮球开关的正确动作。

用途：

专门用于各种中小型常压和受压储液罐的液位检测、现场指示 信号远传、液位报警，可适用于各种卫生、有毒、腐蚀性介质及爆炸性气体危险场所。有多种安装形式，适用于各种形式的容器。

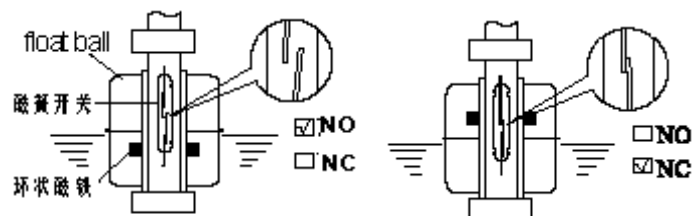
选型说明：

请依照被测物之使用温度、压力、比重、耐酸碱等特性，选用上表所列各种规格之浮球。

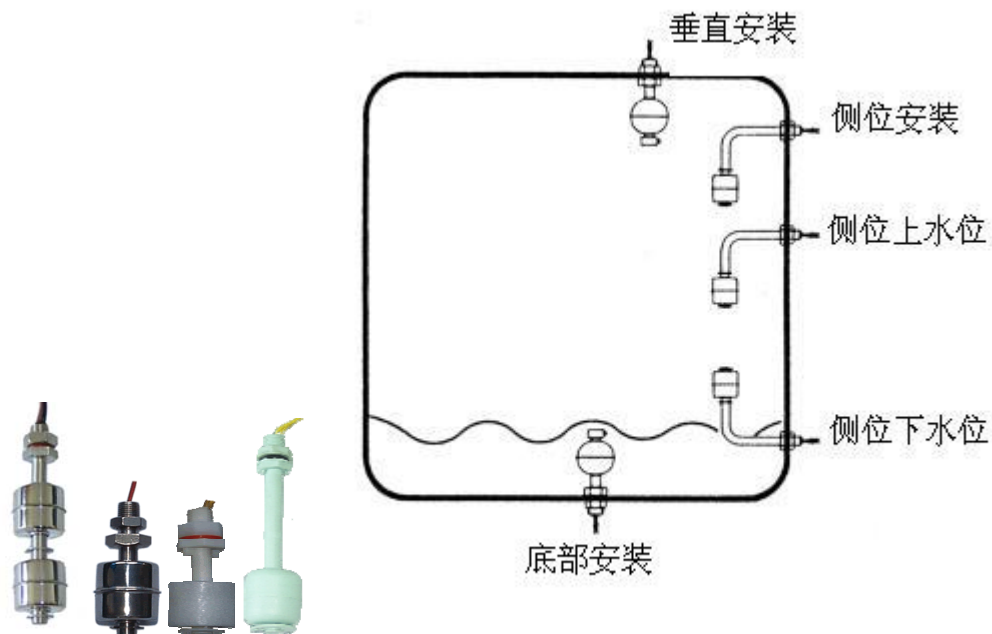
- 1、 温度：PVDF 最高温度为 120℃，PP 最高为 80℃，SUS304/316 最高为 200℃。
- 2、 压力：塑胶类浮球耐压最大 5kg/cm²，SUS 浮球耐压最大 30kg/cm²。
- 3、 粘着：应选用球大、比重小的浮球才能克服液体表面张力。
- 4、 化性：塑胶材质适用于酸碱场所，如有温度考虑时应选用 PVDF。
- 5、 油精：应使用金属材质。
- 6、 比重：浮球比重 SG 必须小于被测液体，否则浮球浮不起来。

小型浮球开关动作原理图：

直装或侧装(带杆、浮球式)



常开(N.O.)当液位上升时磁簧开关接通 常闭(N.C.)当液位上升时磁簧开关不导通



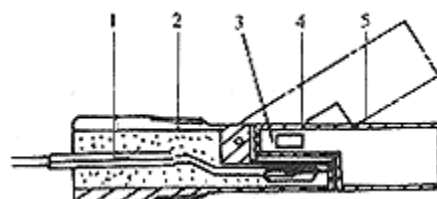
直装: LSS1A1-125-2、LSS1A1、LSP43、LSP75



侧装: LSS2A1 、LSS2A1-160-2

水平安装或侧装(浮子式)

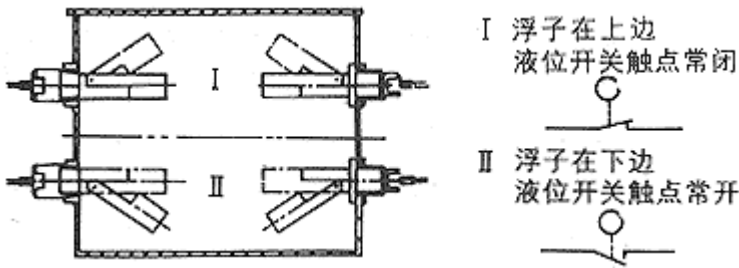
液位开关主要由以下部分组成 1、导线 2、杆体 3、干簧管 4、磁钢 5、浮子



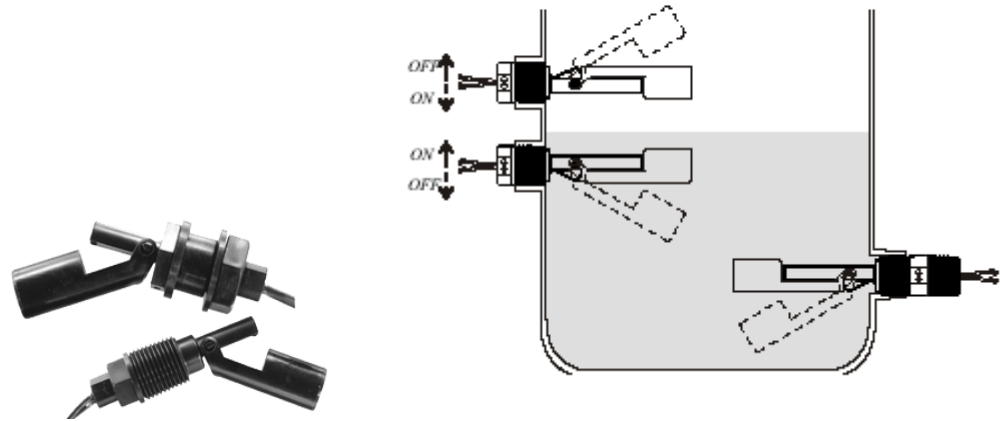
其工作原理为:

浮子在液体浮力的作用下接近或远离杆体,当浮子接近杆体时,浮子中的磁钢也接近杆体内的干簧管,干簧管的触点在磁力的作用下闭合接通。相反,当浮子远离杆体时,浮子中的磁钢也远离杆体内的干簧管,干簧管的触点因失去磁力的作用而分离断开。

当液位开关按图中 I 所示安装时，其触点为常闭状态（即没有液体浮力作用时，液位开关的触点闭合接通）；
当按图中 II 所示安装时，其触点为常开状态。



Installation / N.C. / N.O. Action Position

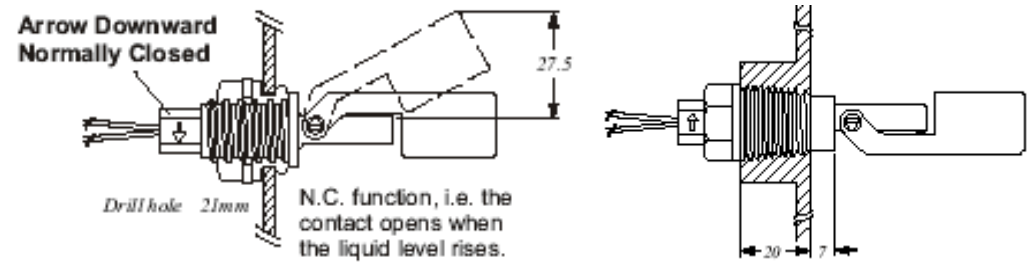


LSSYZ-2 外部水平安装

LSSYZ-1 内部水平安装

根据材料分 PP 材质和不锈钢材质

根据安装方式分内部水平安装和外部水平安装, 还有导管安装



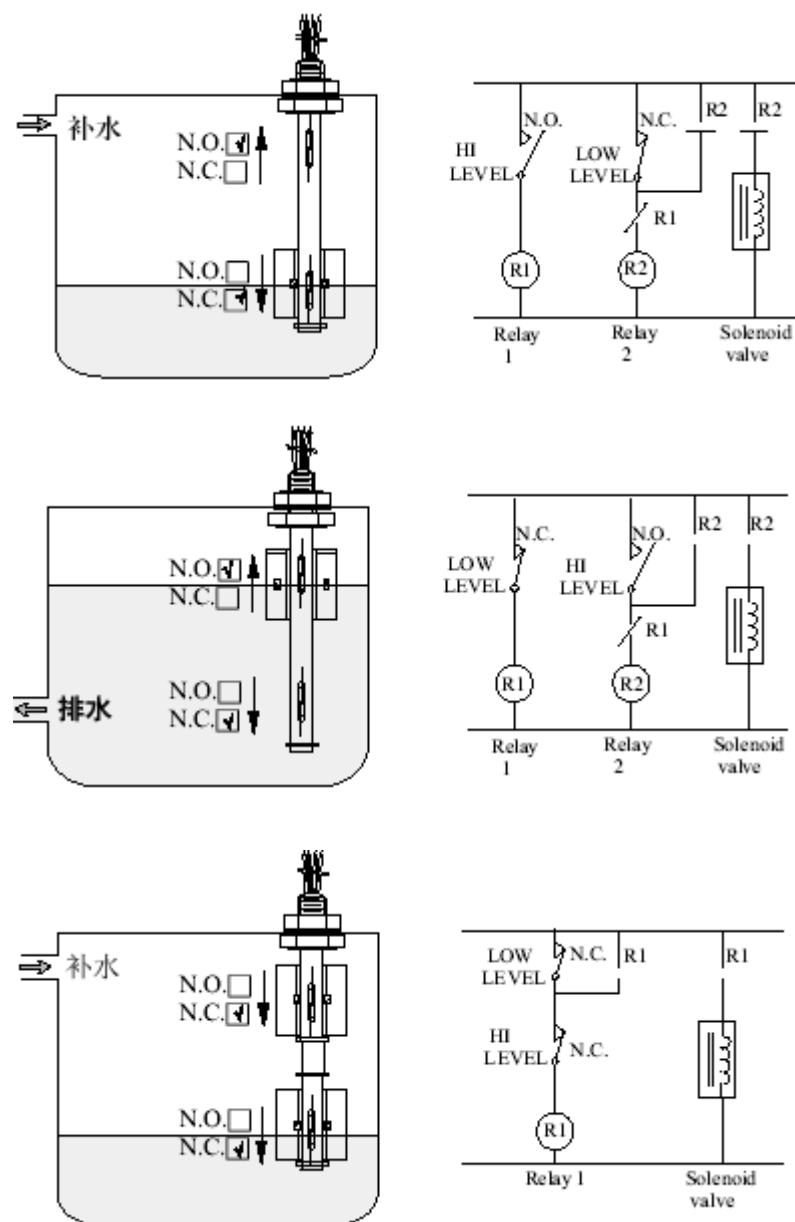
注意事项：a、 长度可由用户自定。

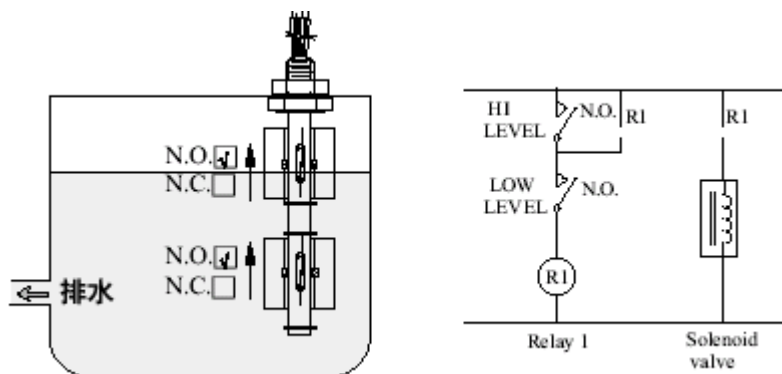
b、 控制点可以做一点或二点。

c、 控制点可以为 N. O. 或 N. C.

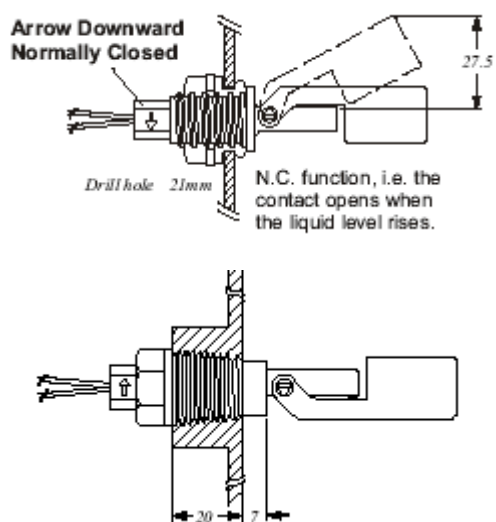
注：1、在不影响产品原有功能原则下，本公司有权修改产品之外形、颜色、尺寸及内部结构，产品如有修改将不另行通知。2、 产品总长度在 $\pm 5\text{mm}$ 以内公差皆属正常。

补排水线路图

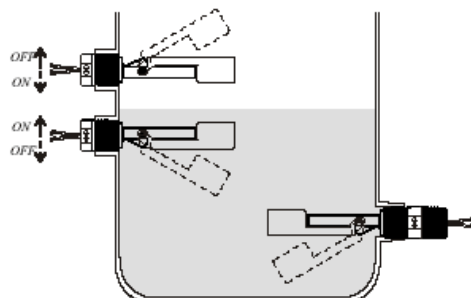




YZ 系列安装图



Installation / N.C. / N.O. Action Position



小型垂直式液位开关系列

SKYWEAL



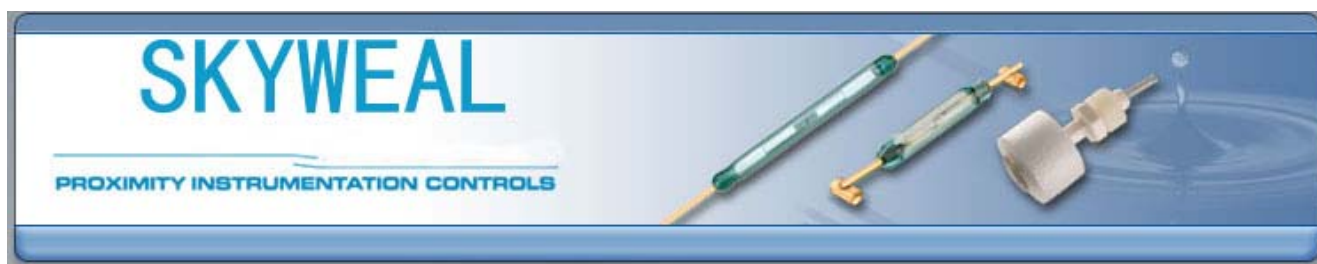
小型横向式液位开关系列



Contact Type 触点形式	Normally Open 常开型	Normally Closed 常闭型	Normally Open High Voltage 高电压常开型	Normally Closed High Voltage 高电压常闭型	Change Over 单极双投型
Switched Power(max) 最大开关功率	10W		50W		5W
Switched Voltage(max) 最大开关电压	DC 200V AC 140V		DC 220V AC 250		DC175 AC125V
Breakdown Voltage(min) 最小击穿电压	250V		580V		200V
Switched Current(max) 最大开关电流	0.5A		1.0A		DC0.4A AC0.28A
Carry Current(max) 最大负载电流	DC1.0A		DC3.0A		0.5A
Contact Resistance(ininial max) 最大接触阻抗	0.2 Ω		0.2 Ω		0.2 Ω
Insulation Resistance(min) 最小绝缘阻抗	10		10		10
Operating Temperature 工作温度范围	-40 TO +150℃		-40 TO +150℃		-40 TO +150℃

以上电气参数可按客户要求定制

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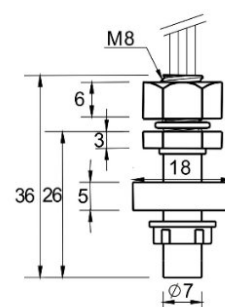


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LSP25 level switch

Type	1A1	1A2
Max. Contact Rating	10 W	
Max. Switching Voltage	100 VDC	
Max. Switching Current	0.5 A	
Min. Breakdown Voltage	220 VDC	
Max. Carry Current	1.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ	
Temperature Rating	-10 ~ +85 °C	
Float Ball Material	PP	
Float Body Material	PP	
Screw Nut Material	PP+GF	
E-Ring Material	PP	



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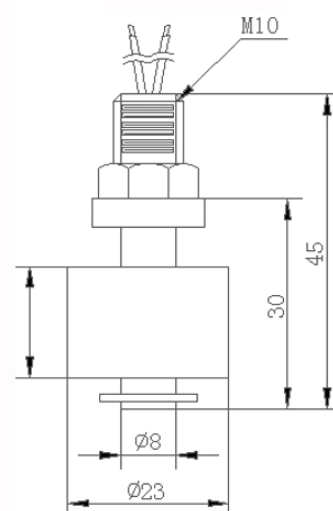
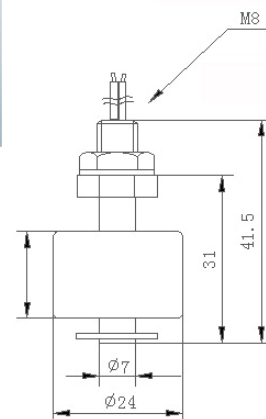
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LSP30 level switch



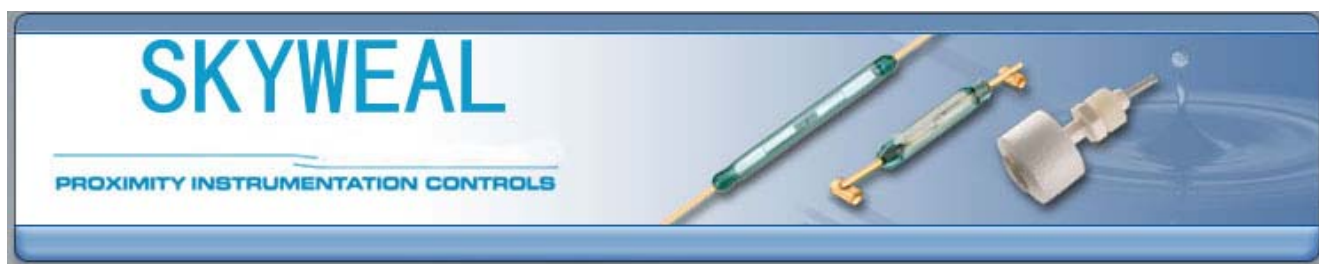
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP32-M8 level switch

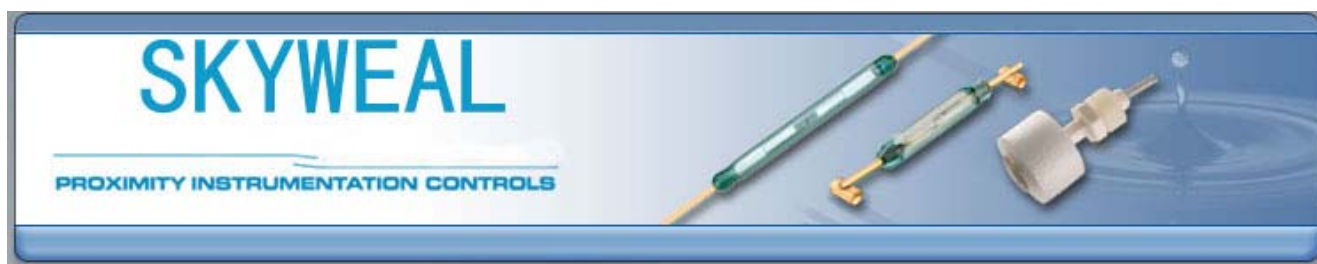
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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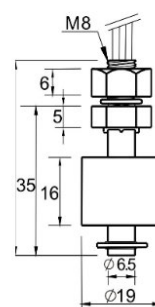


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LSP35 level switch

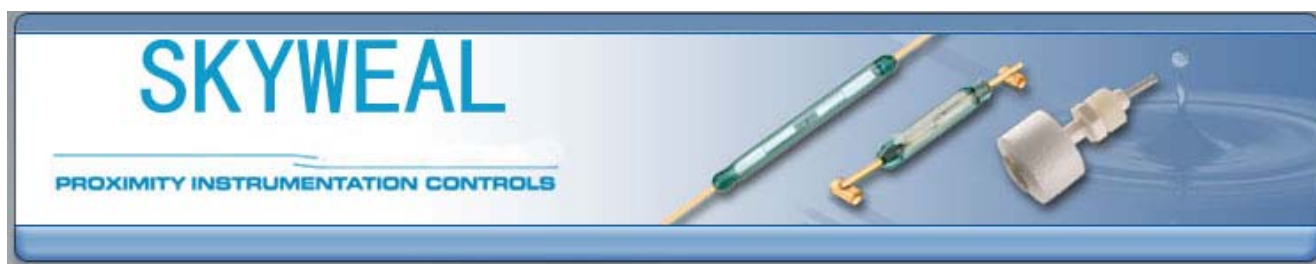
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP35-M10X1.0 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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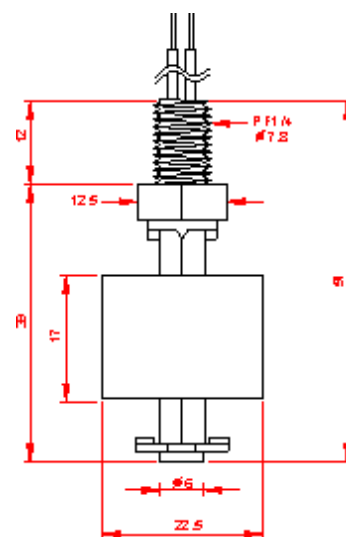


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LSP40-M8 level switch

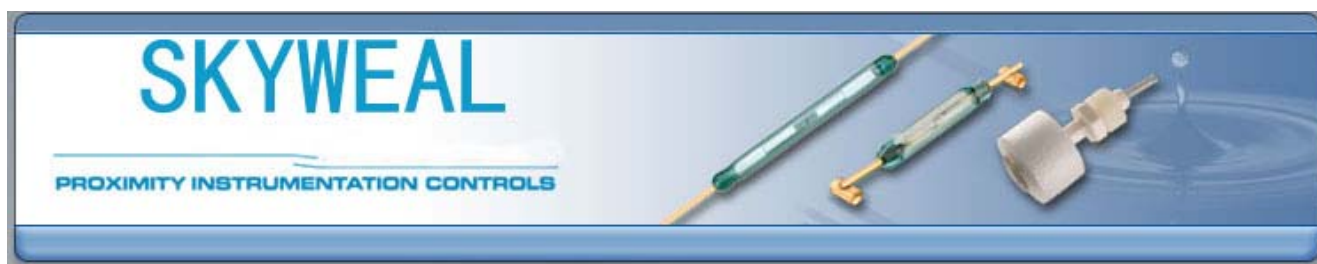
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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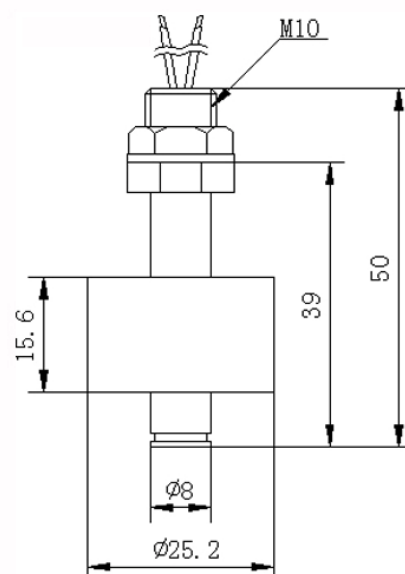


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LSP40-M10 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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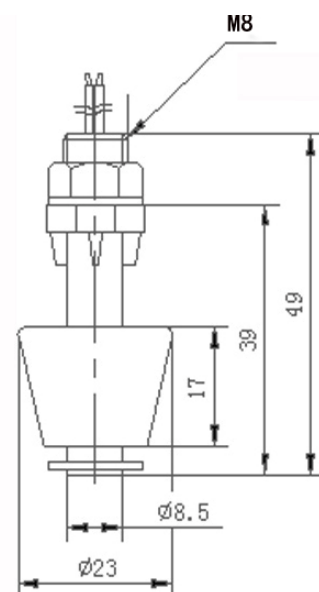
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LSP40G level switch



Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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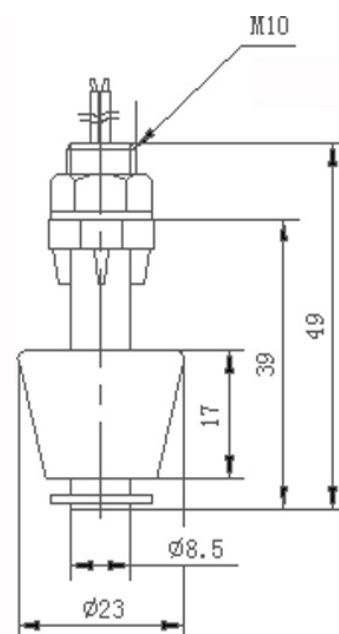


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LSP40G-M10X1.0 level switch

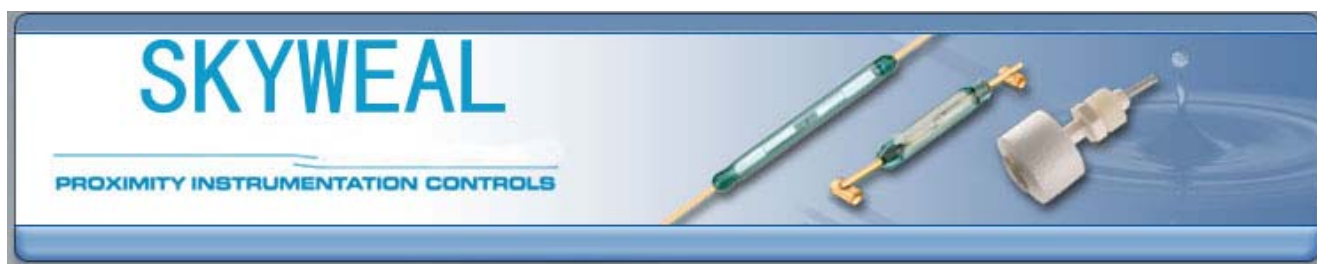
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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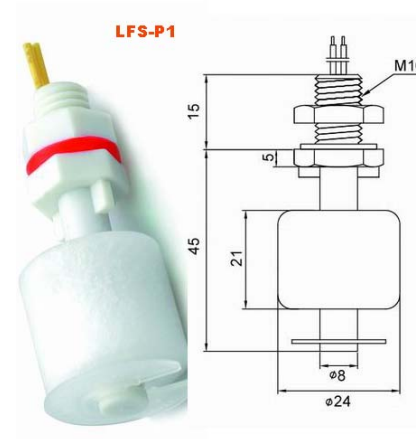


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LSP43 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP43-M10X1.0 level switch

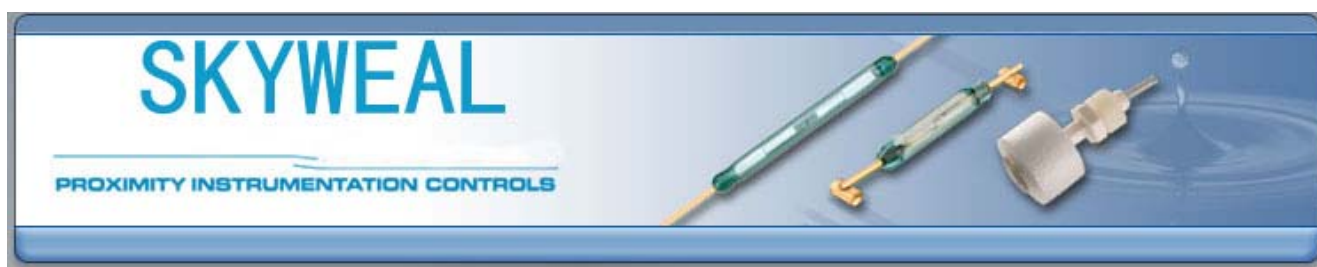
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP43-LK-M8 level switch

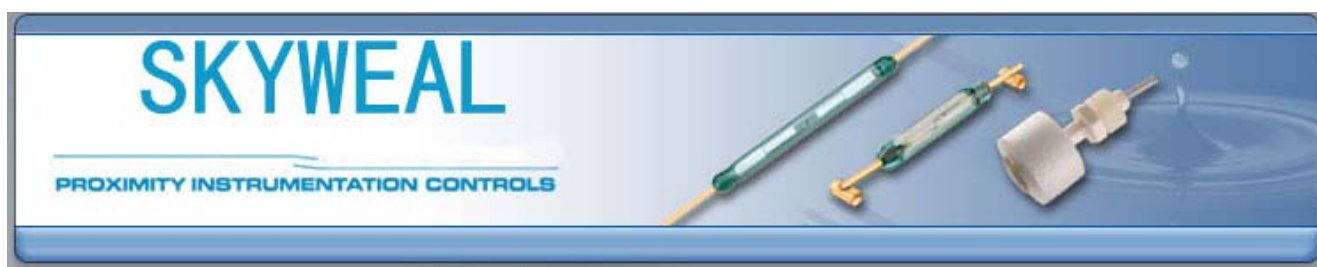
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP43-LK-M10 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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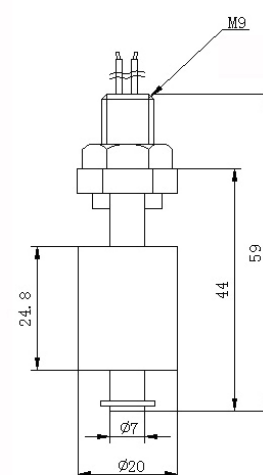
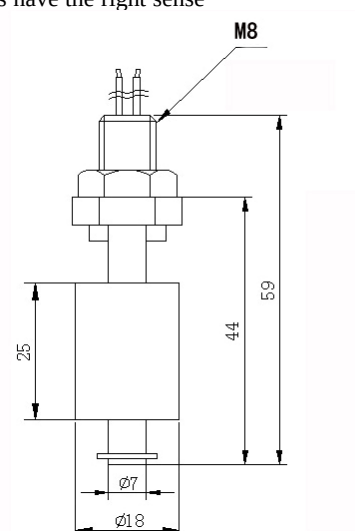


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LSP45 level switch

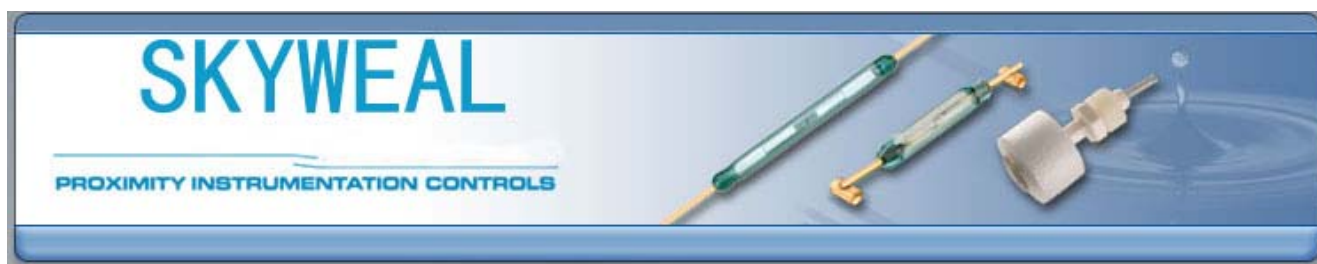
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP45-M10 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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PROXIMITY INSTRUMENTATION CONTROLS

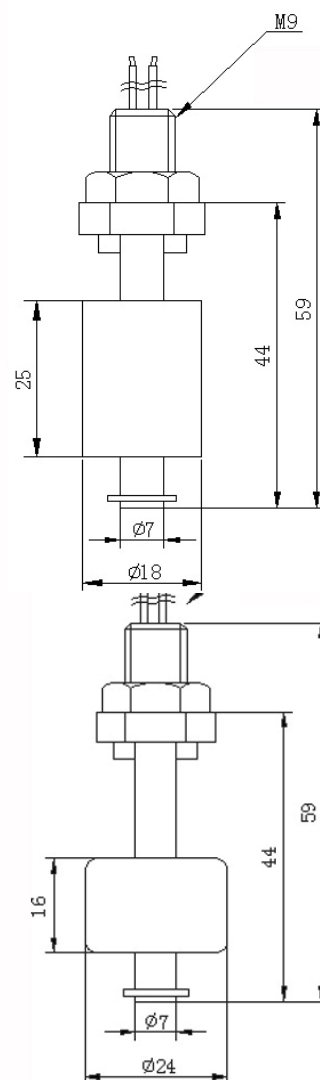


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LSP45-M10X1.0 level switch

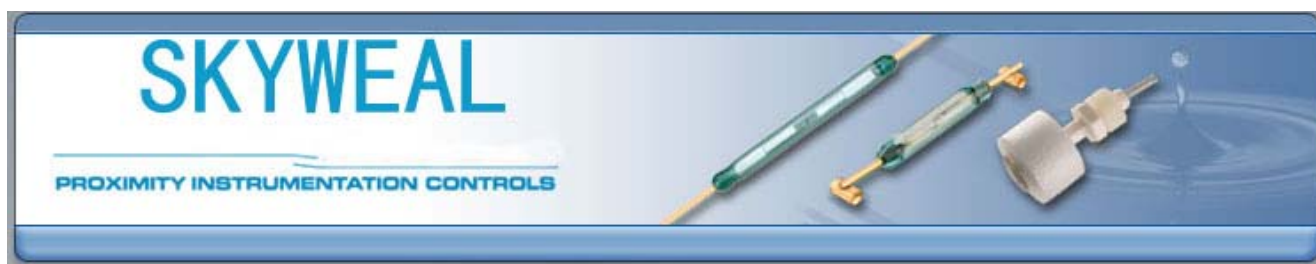
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP45-1/8NPT level switch

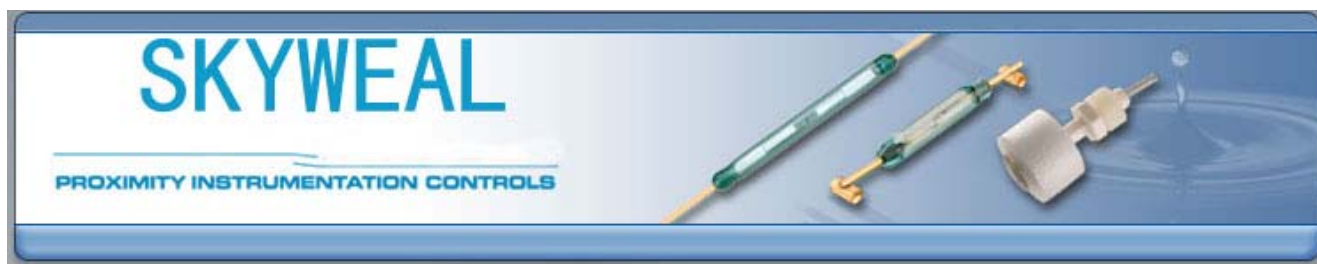
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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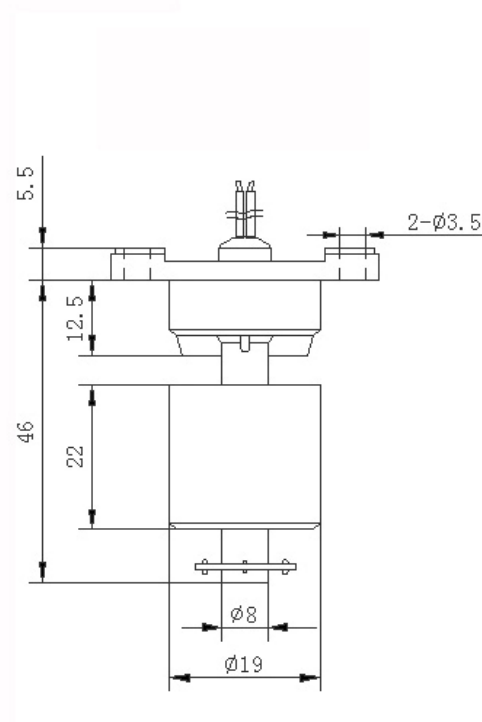


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LSP2545 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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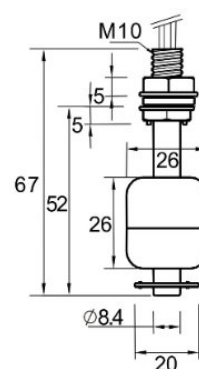


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Skyweal's level switches offer you the best prerequisites for level detecting. No matter what application or industry, our **level switches** always have the right sense for each situation.

LSP52 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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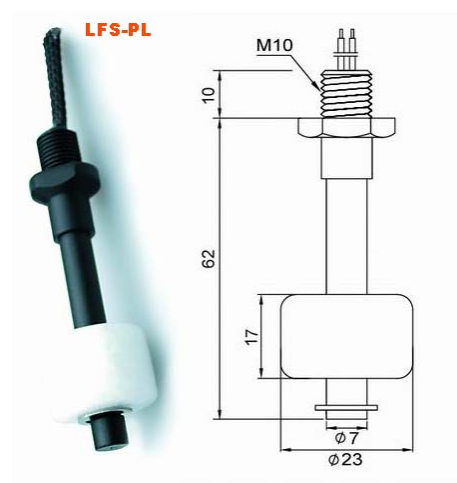


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LSP62 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP75 level switch

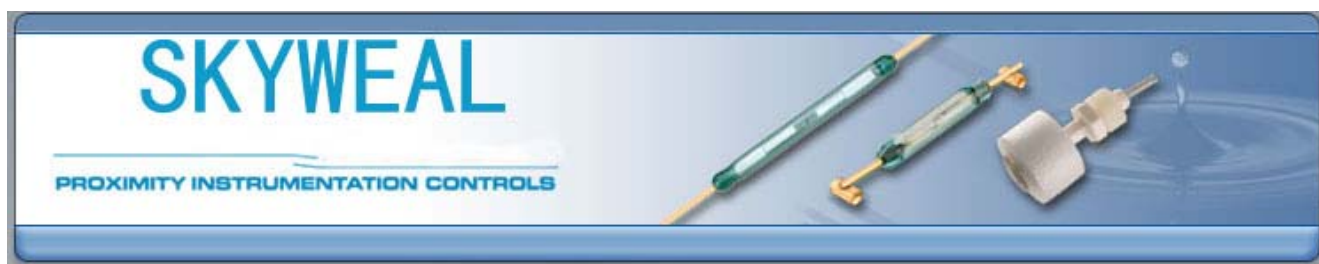
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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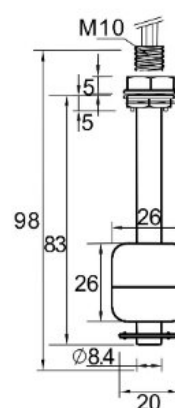


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LSP83 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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LSP45CD level switch

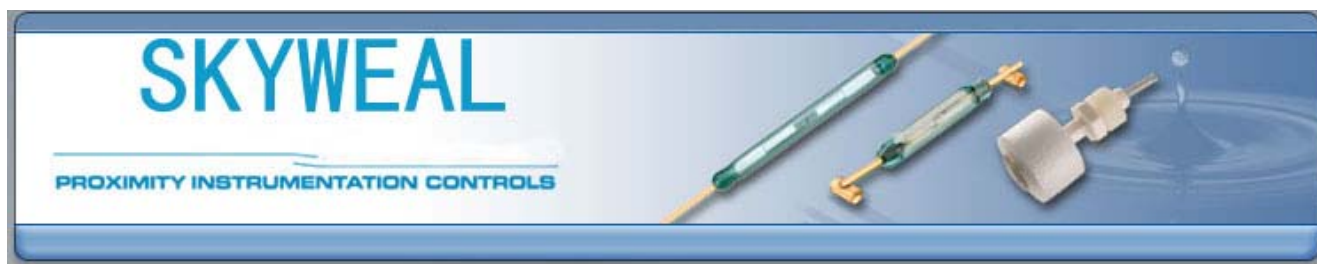


Type	1A1	2A1	1A1B
Max. Contact Rating	10 W	50 W	10 / 3 W
Max. Switching Voltage	100 VDC	200 VDC	100 / 30 VDC
Max. Switching Current	0.5 A	1.5 A	0.5 / 0.4 A
Min. Breakdown Voltage	200 VDC	300 VDC	220 /200 VDC
Max. Carry Current	1.0 A	3.0 A	0.5 A
Max. Initial Contact Resistance Do not include the wire	100 mΩ		
Temperature Rating	-10 ~ +85 °C		
Float Ball Material	PP		
Float Body Material	PP		
Screw Nut Material	ABS		
E-Ring Material	PP		

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LSP100 level switch

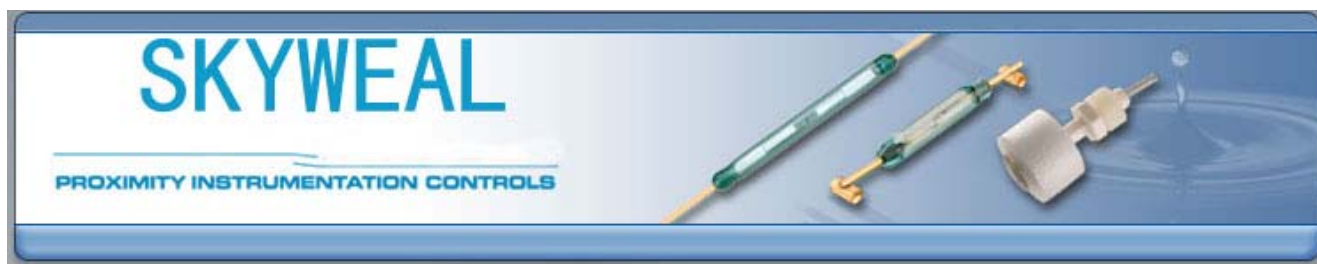
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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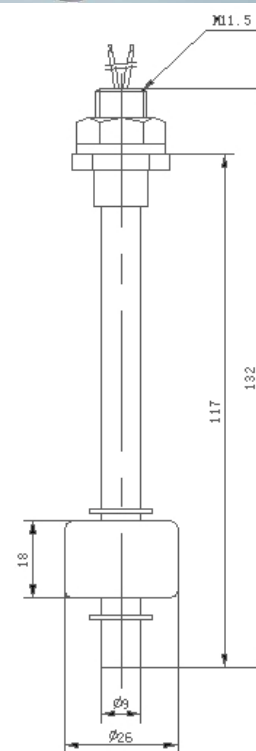


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LSP117 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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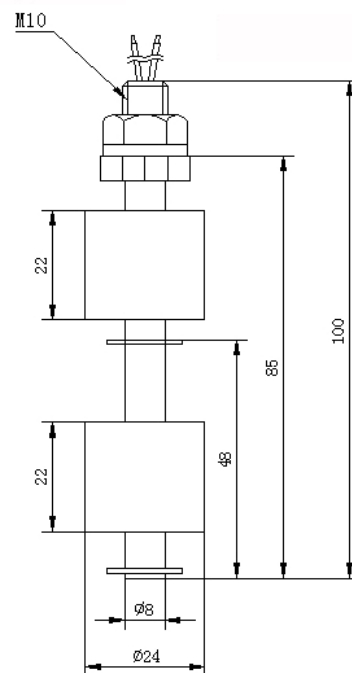


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LSP85-2 level switch

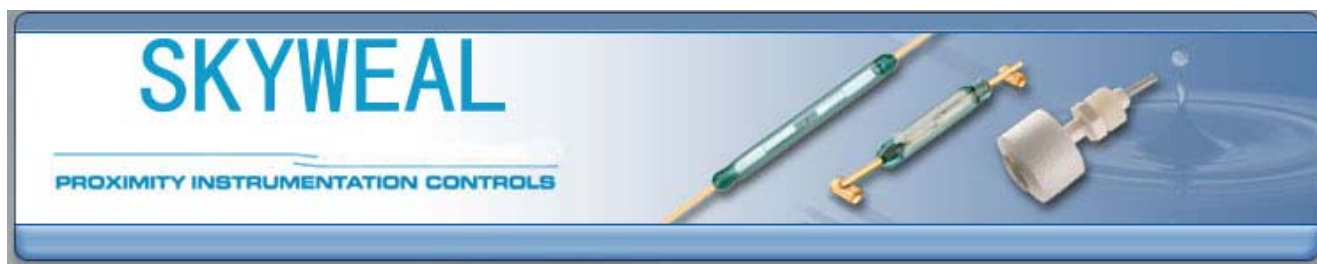
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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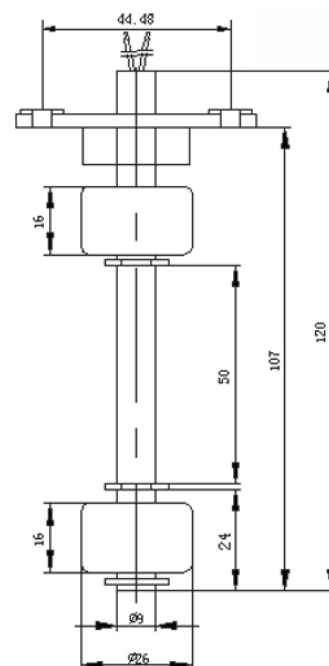


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LSP107-2 level switch

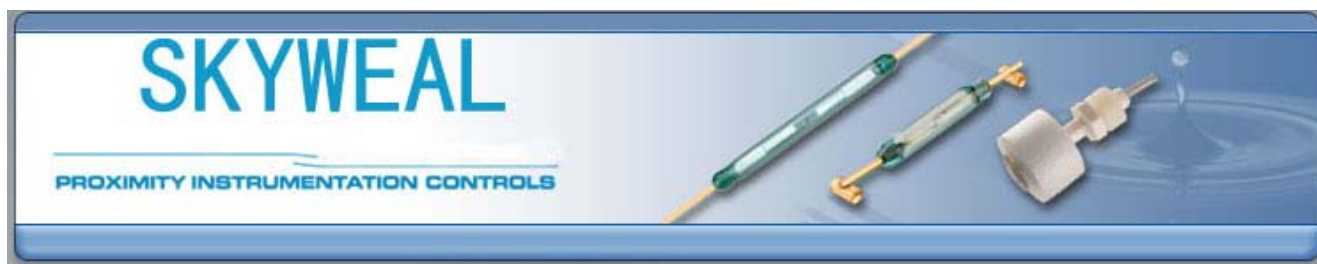
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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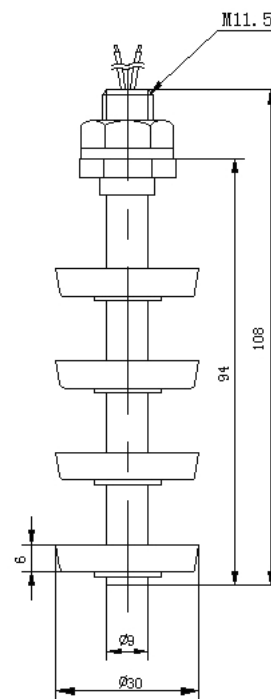


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LSP94-4 level switch

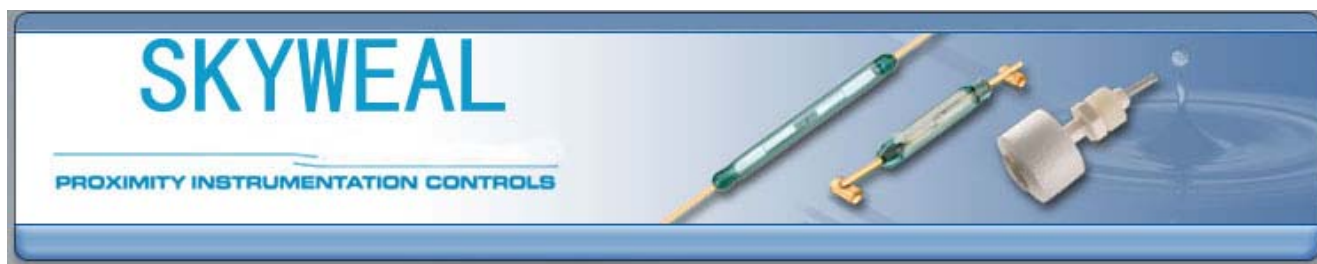
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance	100 mΩ			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



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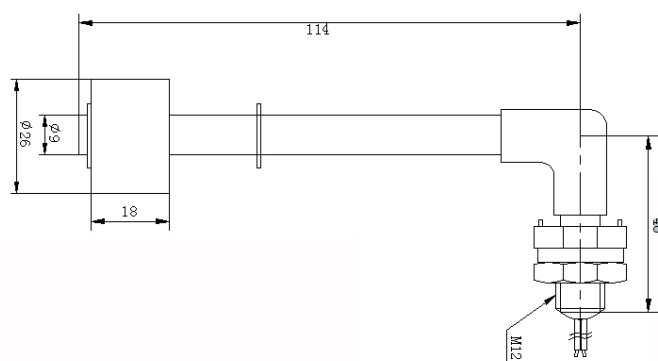
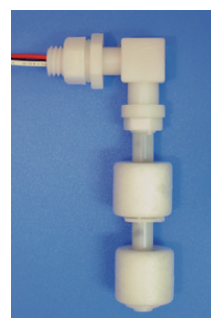


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LSP-PH3-114 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10 W		50 W	
Max. Switching Voltage	100 VDC		200 VDC	
Max. Switching Current	0.5 A		1.5 A	
Min. Breakdown Voltage	220 VDC		300 VDC	
Max. Carry Current	1.0 A		3.0 A	
Max. Initial Contact Resistance Do not include the wire	100 mΩ			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP+GF			
Screw Nut Material	PP+GF			
E-Ring Material	PP			



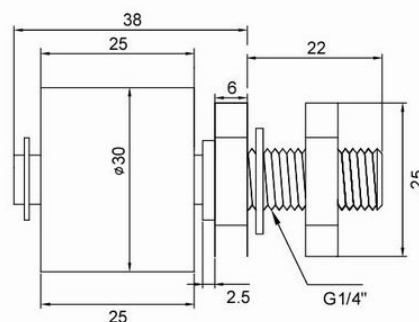


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LSP-PH1 level switch

Type	1A	2A
Max. Contact Rating	10 W	50 W
Max. Switching Voltage	100 VDC	200 VDC
Max. Switching Current	0.5 A	1.5 A
Min. Breakdown Voltage	200 VDC	300 VDC
Max. Carry Current	1.0 A	3.0 A
Max. Initial Contact Resistance Do not include the wire	150m Ω	
Temperature Rating	-10 ~ +85 $^{\circ}\text{C}$	
Float Ball Material	PP	
Float Body Material	PP	
Screw Nut Material	ABS	
E-Ring Material	PP	



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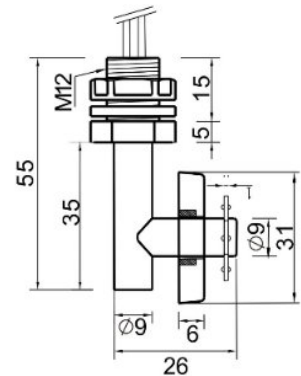


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LSP-PH2 level switch

Type	1A	2A
Max. Contact Rating	10 W	50 W
Max. Switching Voltage	100 VDC	200 VDC
Max. Switching Current	0.5 A	1.5 A
Min. Breakdown Voltage	200 VDC	300 VDC
Max. Carry Current	1.0 A	3.0 A
Max. Initial Contact Resistance Do not include the wire	150m Ω	
Temperature Rating	-10 ~ +85 $^{\circ}\text{C}$	
Float Ball Material	PP	
Float Body Material	PP	
Screw Nut Material	ABS	
E-Ring Material	PP	



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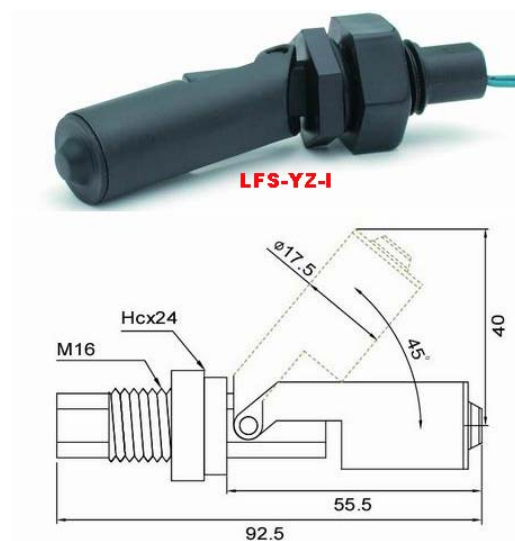


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LS-YZ-1 level switch

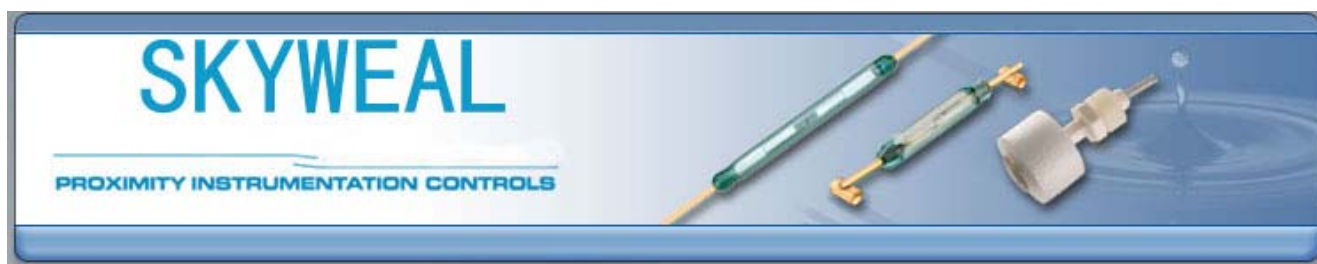
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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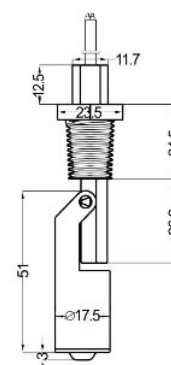


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LS-YZ-2 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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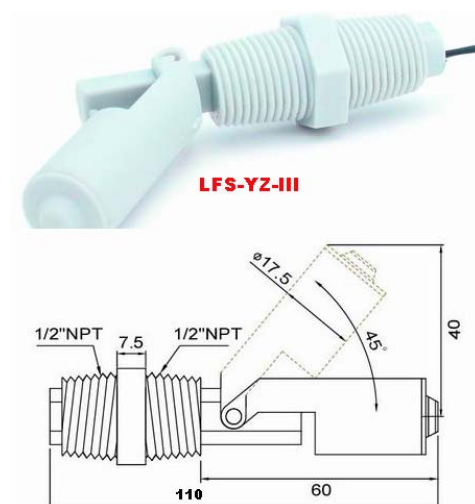


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LS-YZ-3 level switch

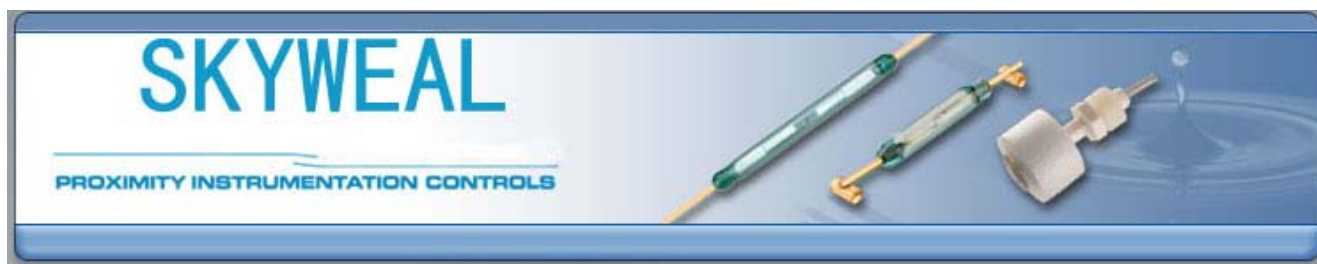
Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance Do not include the wire	100m Ω			
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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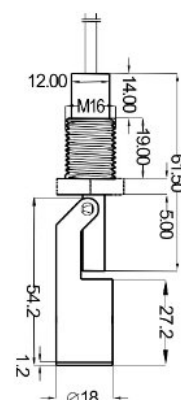
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LS-YZ-4 level switch



Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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LS-YZ-5 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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LS-YZ-6 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 ℃			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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LS-YZ-7 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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LS-YZ-8 level switch

Type	1A1	1A2	2A1	2A2
Max. Contact Rating	10W		50W	
Max. Switching Voltage	100VDC		220VDC	
Max. Switching Current	0.5A		1.5A	
Min. Breakdown Voltage	220VDC		300VDC	
Max. Carry Current	1A		3A	
Max. Initial Contact Resistance	100m Ω			
Do not include the wire				
Temperature Rating	-10 ~ +85 °C			
Float Ball Material	PP			
Float Body Material	PP			
Screw Nut Material	ABS			
E-Ring Material	PP			



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DONGE LIU

小型浮球液位开关

产品原理：

通常将密封的非磁性金属或塑胶管内根据需要设置一点磁簧开关，再将中空而内部有环形磁铁的浮球固定在杆径内磁簧开关相关位置上，浮球比重小于液体密度，液体使浮球在一定范围内上下浮动，利用浮球内的磁铁去吸引磁簧开关的闭合，产生开关动作，以控制液位。常开和常闭是没有注入液体时的状态。

产品特点：

磁簧开关触点材料为铑（表层覆盖氧化铑），接点寿命可达 200 万次。

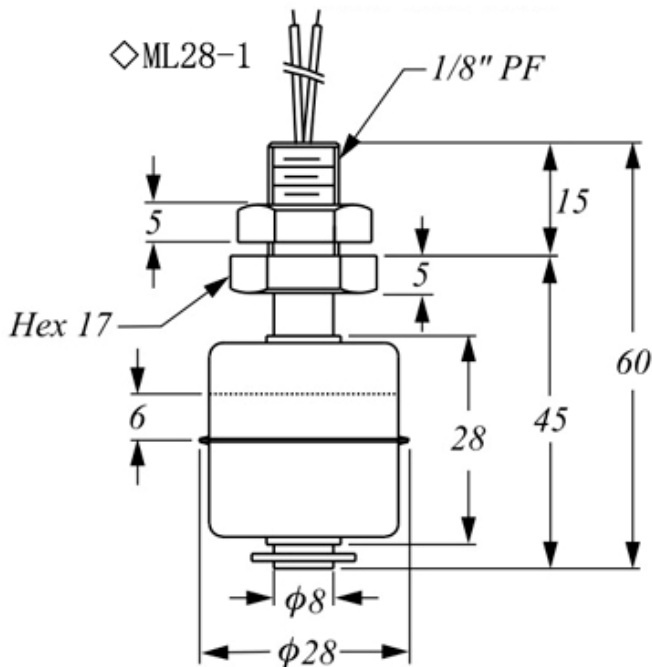
磁簧开关的特殊处理可使其在 200℃ 高温下正常使用。

浮球开关整体性能可靠，多种材质和规格可供选择。

型号：

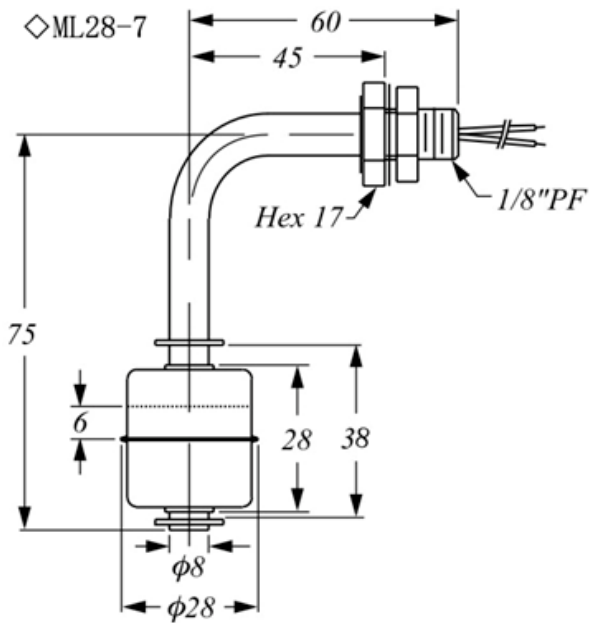
LS-S1A1, LS-S2A1, LS-S1A38, LS-S1A38, LS-S1A2, LS-S2A2, LS-S1A3, LS-S2A3, LS-SYZ-2, LS-SYZ-2H, LS-YZ-1, LS-YZ-2, LSP-001, LSP-002

型号：LS-S1A1



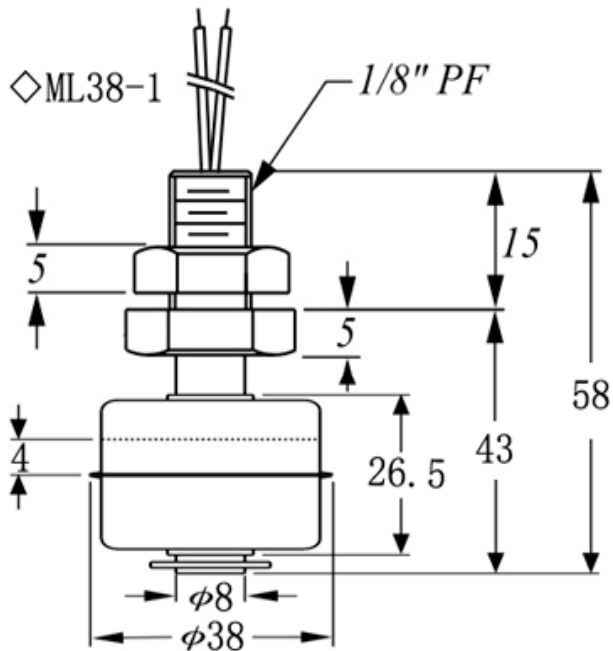
- o 技术参数
- o 接点容量：70W
- o 最高工作电压：240VAC/200VDC
- o 最大开关电流：0.7A
- o 最大压力：10Kg/cm²
- o 浮球比重：0.8g/cm³
- o 工作温度：-20~120℃
- o 浮球尺寸：φ28×28×φ9.5
- o 材质：SUS304 or SUS316L
- o 过程连接：1/8"PF（可定制）

型号: LS-S2A1



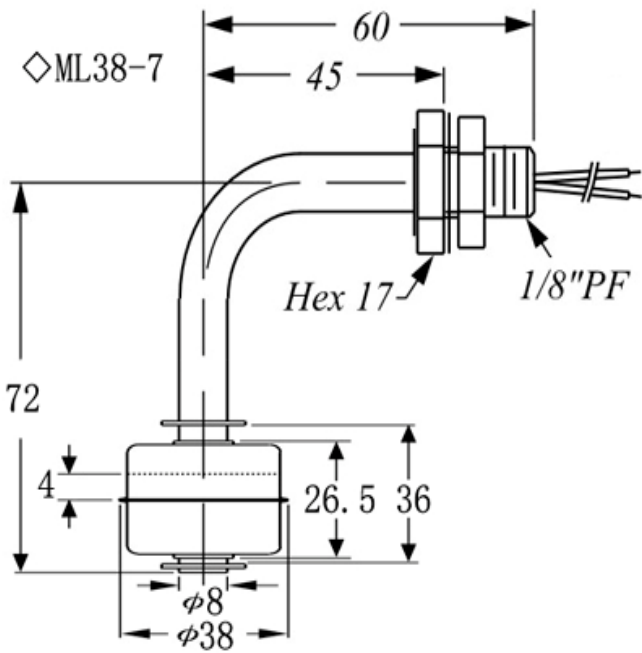
- o 技术参数
- o 接点容量: 70W
- o 最高工作电压:
240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 10Kg/cm²
- o 浮球比重: 0.8g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: φ28×28×φ9.5
- o 材质: SUS304 or SUS316L
- o 过程连接: 1/8"PF (可定制)

型号: LS-S1A38



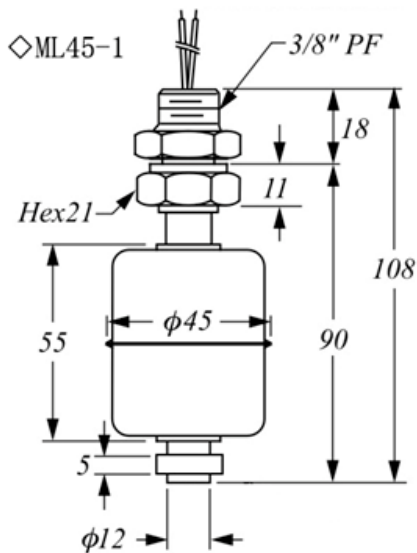
- o 技术参数
- o 接点容量: 70W
- o 最高工作电压:
240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 10Kg/cm²
- o 浮球比重: 0.7g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: φ38×26×φ9.5
- o 材质: SUS304 or
SUS316L
- o 过程连接: 1/8"

型号: LS-S2A38

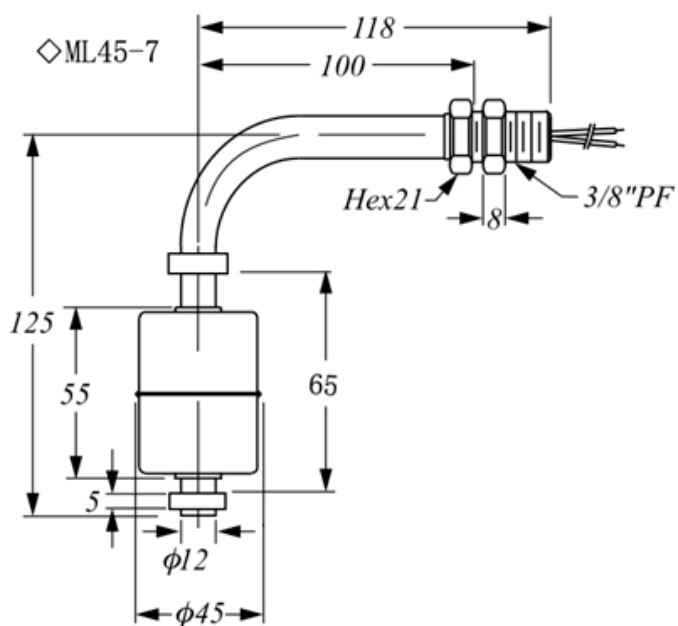


- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 10Kg/cm²
- o 浮球比重: 0.7g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: $\phi 38 \times 26 \times \phi 9.5$
- o 材质: SUS304 or SUS316L
- o 过程连接: 1/8"PF (可定制)

型号: LS-S1A2

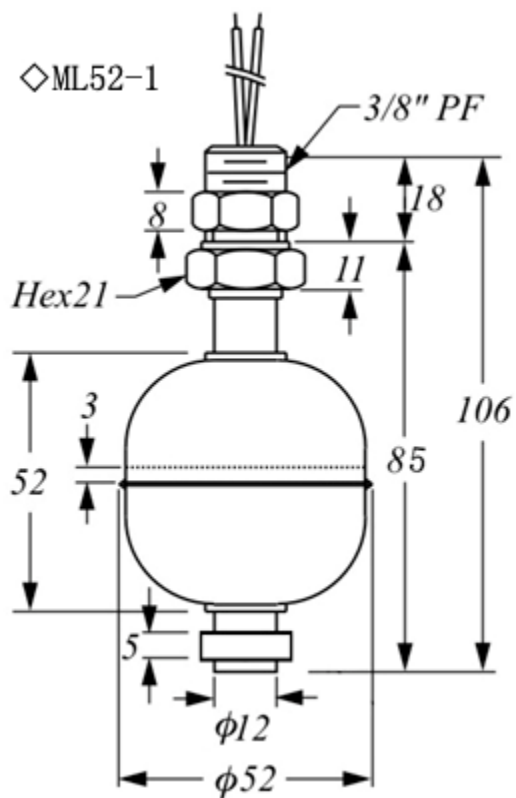


- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 15Kg/cm²
- o 浮球比重: 0.65g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: $\phi 45 \times 55 \times \phi 15$
- o 材质: SUS304 or SUS316L
- o 过程连接: 3/8"PF (可定制)



型号: LS-S2A2

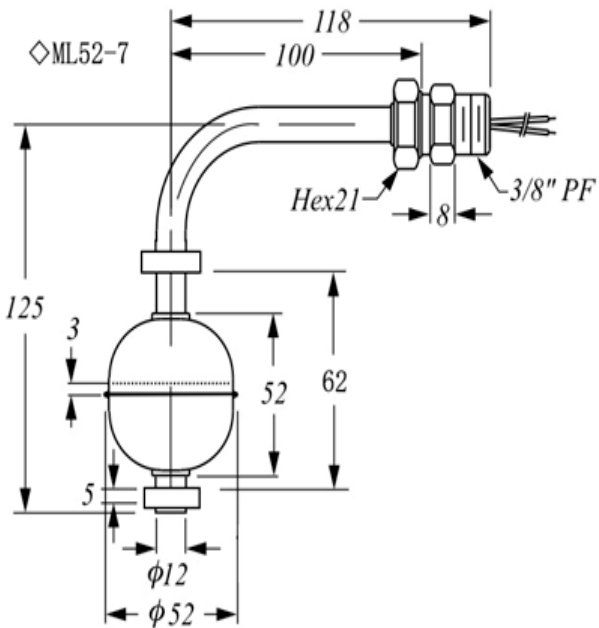
- o 技术参数
- o 接点容量: 70W
- o 最高工作电压:
240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 15Kg/cm²
- o 浮球比重: 0.65g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: φ45×55×φ15
- o 材质: SUS304 or
SUS316L
- o 过程连接: 3/8"PF 可定制



型号: LS-S1A3

- o 技术参数
- o 接点容量: 70W
- o 最高工作电压:
240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 30Kg/cm²
- o 浮球比重: 0.55g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: φ52×52×φ15
- o 材质: SUS304 or
SUS316L
- o 过程连接: 3/8"PF (可定制)

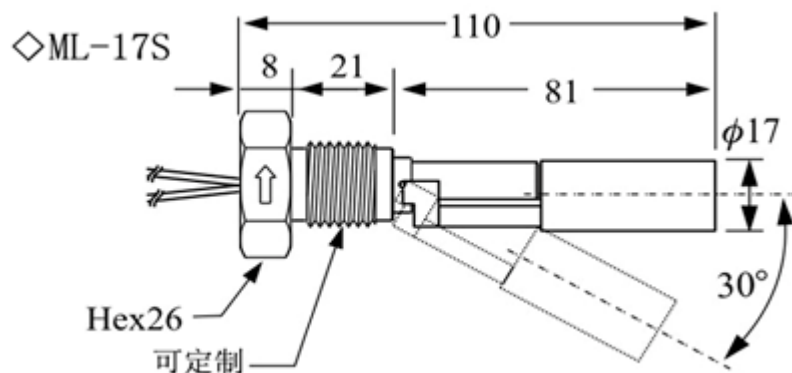
型号: LS-S2A3



- o 技术参数
- o 接点容量: 70W
- o 最高工作电压:
240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 30Kg/cm²
- o 浮球比重: 0.55g/cm³
- o 工作温度: -20~120℃
- o 浮球尺寸: $\phi 52 \times 52 \times \phi 15$
- o 材质: SUS304 or SUS316L
- o 过程连接: 3/8" PF (可定制)

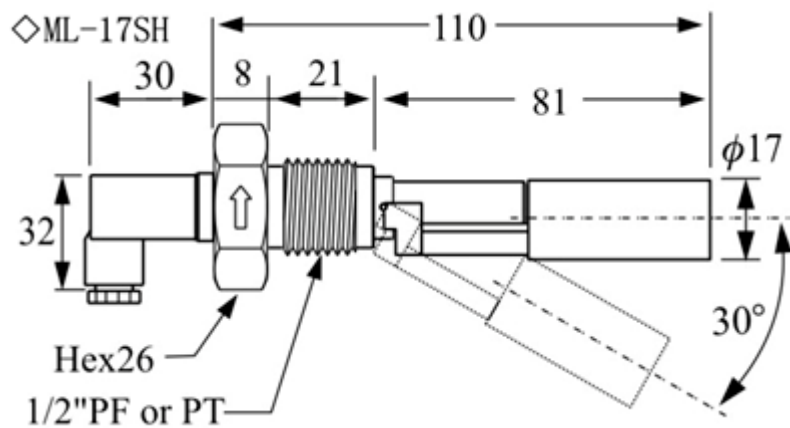
型号: LS-SYZ-2

- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 10Kg/cm²
- o 浮球比重: 0.7g/cm³
- o 工作温度: -20~120℃
- o 材质: SUS304 or SUS316L
- o 过程连接: 1/2" PF or PT (可定制)



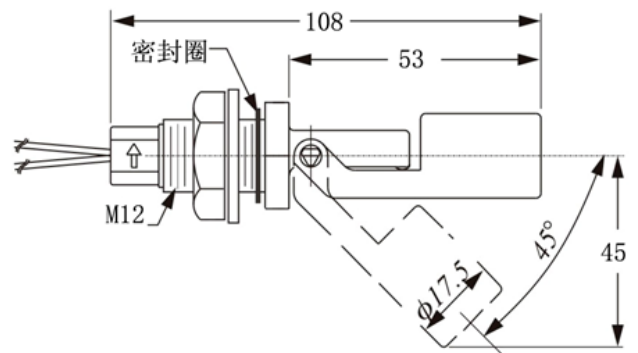
型号: LS-SYZ-2H

- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 10Kg/cm²
- o 浮球比重: 0.7g/cm³
- o 工作温度: -20~120℃
- o 材质: SUS304 or SUS316L
- o 过程连接: 1/2" PF or PT (可定制)



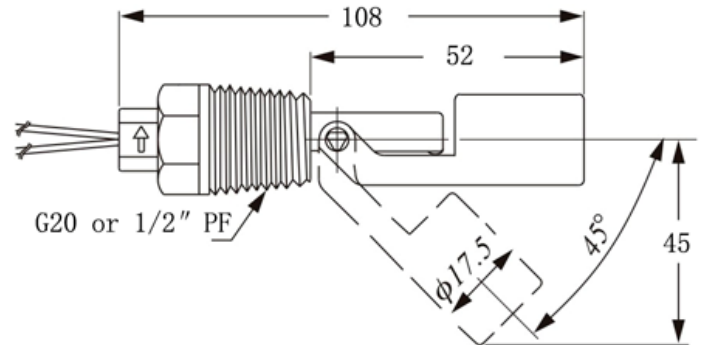
型号: LS-YZ-1

- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 4Kg/cm²
- o 浮球比重: 0.8g/cm³
- o 工作温度: -20~80℃
- o 材质: PP or FRPP
- o 过程连接: 1/2"PT, M20*1.5)



型号: LS-YZ-2

- o 技术参数
- o 接点容量: 70W
- o 最高工作电压: 240VAC/200VDC
- o 最大开关电流: 0.7A
- o 最大压力: 4Kg/cm²
- o 浮球比重: 0.8g/cm³
- o 工作温度: -20~80℃
- o 材质: PP or FRPP
- o 过程连接: 1/2"PT, M20*1.5

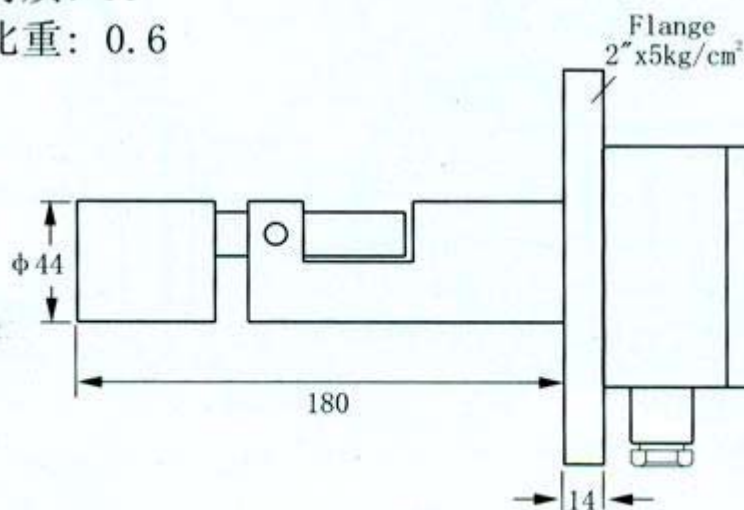


型号: LSP-001

LSP-001

耐酸碱型

1. 接线盒规格: PC (IP65)
2. 输出接点: 40W/250VAC
3. 接点形式: SPDT
4. 操作温度: -10~90℃
5. 接液材质: PP
6. 适用比重: 0.6

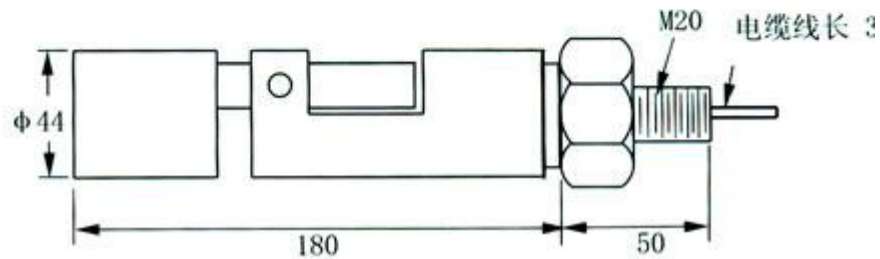


型号: LSP-002

LSP-002

耐酸碱型

1. 接 续: M20*1.5
2. 输出接点: 40W/250VAC
3. 接点形式: SPDT
4. 操作温度: $-10\sim 90^{\circ}\text{C}$
5. 接液材质: PP
6. 适用比重: 0.6



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