

FILN 飞林

压电按钮开关

Piezo Push Button Switch Series

16/19/22/MM/YD系列



产品特点:

拥有超长的使用寿命。
防护性能卓越,能够达到 IP68 以及 IP69K。
可在多种恶劣的环境条件下正常使用。
外观精美,并且能够依据实际需求对外观进行定制。

Product Features:

Long-lasting durability.
Superior IP68/IP69K protection.
Reliable in extreme conditions.
Stylish, customizable design.

一般技术条件

防水性能：IP68
抗冲击性：10-500 Hz / 10 g
操作温度：-40℃ to +75℃

性能特征

最大电压电流等级：1A 24VAC/DC 或 200mA 24VAC/DC
不同规格不同等级，具体参看详细说明
开关电阻 ON：10 Ω max.
开关电阻 OFF：5M Ω min.
操作力：5 - 10 N
操作寿命：5000万次
LED消耗：单点带灯 10mA / 环形带灯 20mA

材质

外壳：铝电镀颜色，不锈钢
引线：线径 AWG24 长度 200 mm
PC 端子：铜镀锡

General Specifications

Waterproof Rating: IP68
Vibration Resistance: 10-500 Hz / 10 g
Operating Temperature: -40℃ to +75℃

Performance

Max. Voltage/Current: 1A 24VAC/DC or 200mA 24VAC/DC
(varies by model; see specs)
Switch Resistance (ON/OFF): $\leq 10 \Omega$ / $\geq 5 M\Omega$
Operating Force: 5-10 N
Operating Life: 50 million cycles
LED Consumption: Single-point 10mA / Ring-type 20mA

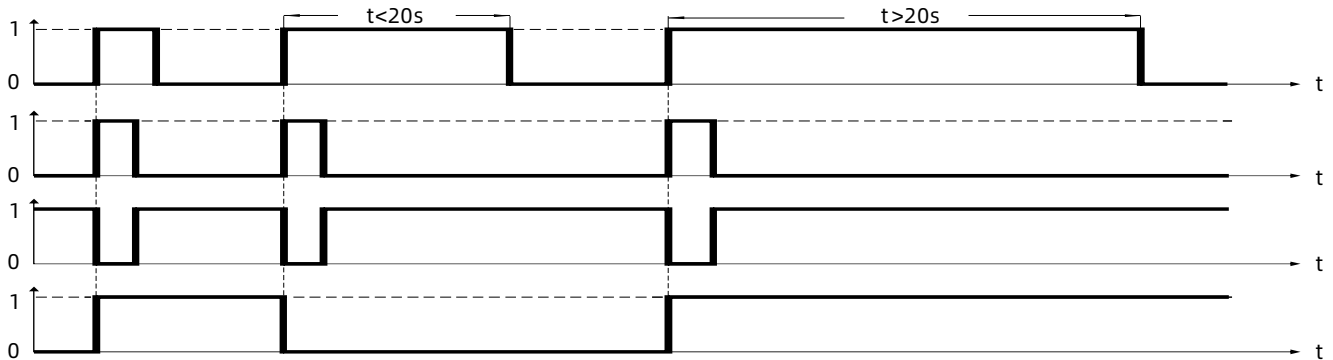
Materials

Housing: Electroplated aluminum, stainless steel
Cable: AWG24, 200 mm length
PC Terminal: Tin-plated copper



Operating status description

操作状态说明



Switch State & Output Configuration 开关状态与输出配置

Finger Pressure State 手指状态	Output Type 输出类型	Output Signal 输出信号	Power Requirement 电源需求
1 = Pressed 1 = 压着	Momentary NO (Pulse) 瞬动常开 (脉冲)	Pulse on press, open at rest 按压时脉冲, 常态断开	No external power 无需外部电源
0 = Released 0 = 未压	Momentary NC (Pulse) 瞬动常闭 (脉冲)	Pulse on release, closed at rest 松开时脉冲, 常态闭合	No external power 无需外部电源
Toggle 切换	Latching (ON-OFF) 自锁 (ON-OFF)	Maintains state after press 按压后保持状态	Requires external power 需外部电源

Wiring diagram

接线图

	Non-illuminated/不带灯	1 LED*	2 LEDs	3 LEDs
Momentary NO (pulse) 瞬动 NO(脉冲)				
Momentary NO (pulse) 瞬动 NC(脉冲)				
Latching (ON-OFF) 自锁(ON-OFF)				

NOTE: X means the color of the wire depends on the color of the LED.

备注: X表示引线的颜色取决于LED的颜色。

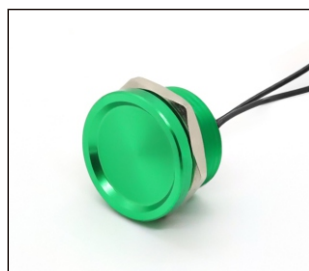
Piezo Switch Model Specifications

压电开关型号说明

YD	16	-	★	★	-	■	◆	□	◇	●	-	△	▲
Series	Installation size		Head shape	Connection method		Light	Housing	Switch combination	Switch Function	OUT PUT type		Light color	Light voltage
YD Pezo switch	16 16mm		F Flat C Concave	W Free lead(Length 20CM) Wire length accept customized		By default, there are no words and no rings E = Ring Light	SS stainless steel RD Aluminum red GN Aluminum Green GD Aluminum Gold BU Aluminum blue NT Aluminum BK Aluminum black	10 NO 01 NC	By default Momentary Z = Latching	By default, NPN P PNP G SSR		NO LED R Red G Green B Blue Y Yellow W White	NO LED 05 -5VDC 12 -12VDC 24 -24VDC
系列号	安装尺寸		操作头部	接线方式		亮灯方式	外壳颜色及材料	电气功能	开关功能	输出类型		带灯颜色	带灯电压
YD 压电	16 16mm		F 平头 C 凹头	W 引线(长度20CM) 长度可定制		默认无字 无环形 E 环形	SS 不锈钢 RD 铝镀红色 GN 铝镀绿色 GD 铝镀金色 BU 铝镀蓝色 NT 铝镀原色 BK 铝镀黑色	10 NO 01 NC	默认无字 自复 Z 自锁	默认无字 NPN型 P PNP型 G 固态继电器		无字表示不带灯 R 红色 G 绿色 B 蓝色 Y 黄色 W 白色	无字表示不带灯 05 -5VDC 12 -12VDC 24 -24VDC

YD	19	-	★	★	-	■	◆	□	◇	●	-	△	▲
Series	Installation size		Head shape	Connection method		Light	Housing	Switch combination	Switch Function	OUT PUT type		Light color	Light voltage
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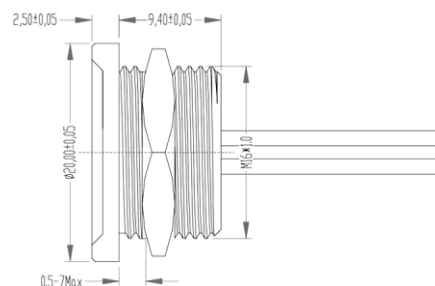
YD	22	-	★	★	-	■	◆	□	◇	●	-	△	▲
Series	Installation size		Head shape	Connection method		Light	Housing	Switch combination	Switch Function	OUT PUT type		Light color	Light voltage
YD Pezo switch	22 22mm		F Flat C Concave	W Free lead(Length 20CM) Wire length accept customized		By default, there are no words and no rings D = Dot light E = Ring Light	SS stainless steel RD Aluminum red GN Aluminum Green GD Aluminum Gold BU Aluminum blue NT Aluminum BK Aluminum black	10 NO 01 NC	By default Momentary Z = Latching	By default, NPN P PNP G SSR		NO LED R Red G Green B Blue Y Yellow W White	NO LED 05 -5VDC 12 -12VDC 24 -24VDC
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Concave head, 2.50mm high, without light
凹型头部, 高2.50mm, 不带灯

YD16-CW- ◆ □

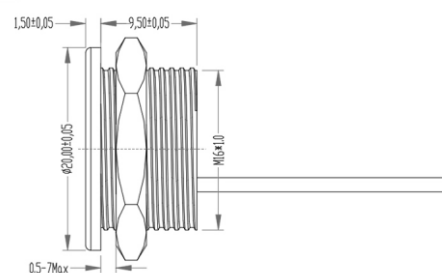
安装孔径/Panel Size: $\phi 16\text{mm}$
防护等级/IP Degree: IP69K, IK10



Flat head, 1.5mm high, without light
平型头部, 高1.5mm, 不带灯

YD16-FW- ◆ □

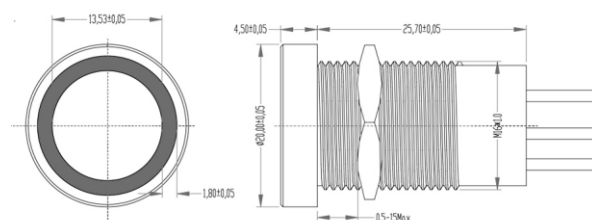
安装孔径/Panel Size: $\phi 16\text{mm}$
防护等级/IP Degree: IP69K, IK10



Ring head, 4.5MM high, with lamp
环形头部, 高4.5MM, 带灯

YD16-FW-E ◆ □ ◇ ● - △

安装孔径/Panel Size: $\phi 16\text{mm}$
防护等级/IP Degree: IP69K, IK10



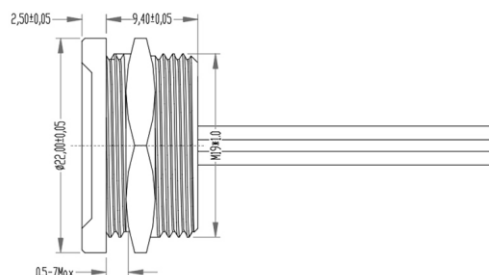
YD	16	-	★	★	-	■	◆	□	◇	●	-	△	▲
Series	Installation size		Head shape	Connection method		Light	Housing	Switch combination	Switch Function	OUT PUT type		Light color	Light voltage
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系列号	安装尺寸		操作头部	接线方式		亮灯方式	外壳颜色及材料	电气功能	开关功能	输出类型		带灯颜色	带灯电压
YD 压电	16 16mm		F 平头 C 凹头	W 引线(长度20CM) 长度可定制		默认无字 无环形 E 环形	SS 不锈钢 RD 铝镀红色 GN 铝镀绿色 GD 铝镀金色 BU 铝镀蓝色 NT 铝镀原色 BK 铜镀黑色	10 NO 01 NC	默认无字 自复 Z 自锁	默认无字 NPN型 P PNP型 G 固态继电器		无字表示不带灯 R 红色 G 绿色 B 蓝色 Y 黄色 W 白色	无字表示不带灯 05 -5VDC 12 -12VDC 24 -24VDC



Concave head, 2.5mm high, without light
凹型头部, 高2.50mm, 不带灯

YD19-CW- ◆ □

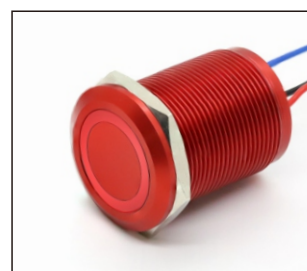
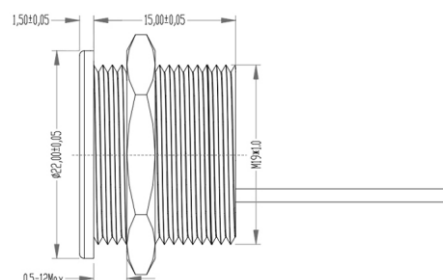
安装孔径/Panel Size: $\Phi 19\text{mm}$
防护等级/IP Degree: IP69K, IK10



Flat head, 1.5mm high, without light
平型头部, 高1.5mm, 不带灯

YD19-FW- ◆ □

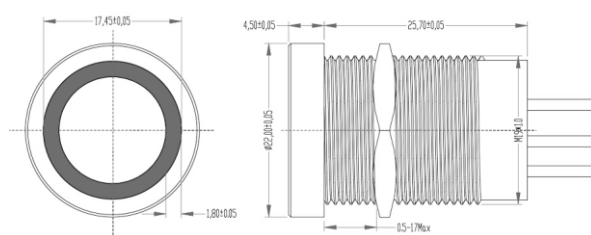
安装孔径/Panel Size: $\Phi 19\text{mm}$
防护等级/IP Degree: IP69K, IK10



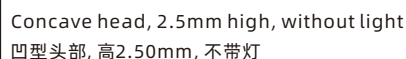
Ring head, 4.5MM high, with lamp
环形头部, 高4.5MM, 带灯

YD19-FW-E ◆ □ ◇ ● - △

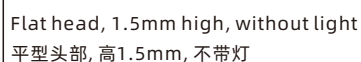
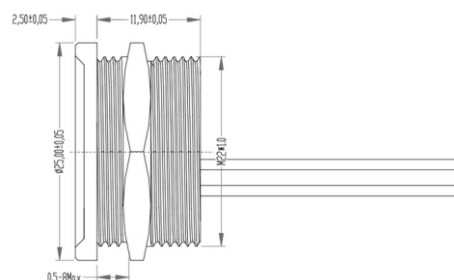
安装孔径/Panel Size: $\Phi 19\text{mm}$
防护等级/IP Degree: IP69K, IK10



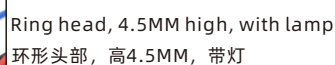
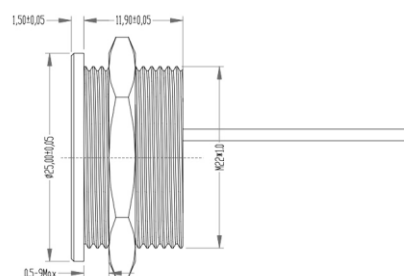
YD	19	-	★	★	-	■	◆	□	◇	●	-	△	▲
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YD22-CW- ☒ ☐

安装孔径/Panel Size: $\phi 22\text{mm}$
防护等级/IP Degree: IP69K, IK10

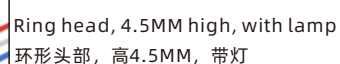
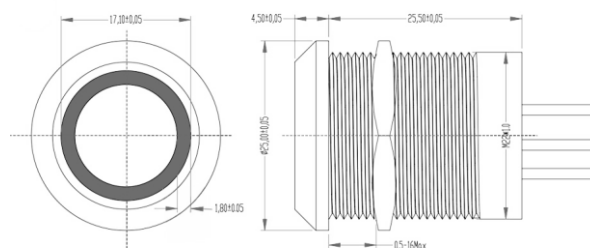
YD22-FW- ☒ ☐

安装孔径/Panel Size: $\phi 22\text{mm}$
防护等级/IP Degree: IP69K, IK10



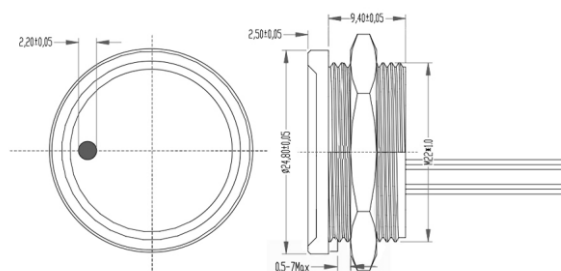
YD22-FW-E ◆ □ ◇ ● - △

安装孔径/Panel Size: $\phi 22\text{mm}$
防护等级/IP Degree: IP69K, IK10



YD22-CW-D◆□-△▲

安装孔径/Panel Size: $\phi 19\text{mm}$
防护等级/IP Degree: IP69K, IK10



YD	22	-	★	-	■	◆	□	◇	●	-	△	▲
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Smart Home Systems
智能家居系统



Shower
淋浴器



Car wash
洗车设备



Bath
浴缸



Mining
采掘设备



Marine Navigation Equipment
船舶航海设备



Medical Equipment Controls
医疗设备防水控制



Automated Production Lines
自动化产线控制