

HQ Series

按钮开关及指示灯



HQ Series

Pushbuttons & Indicators



- 01 紧急停止开关 Emergency Stop Switches
- 02 选择开关 Selector Switches
- 03 带灯高头按钮 Illuminated Extended Pushbuttons
- 04 带灯平头按钮 Illuminated Flush Pushbuttons

- 05 平头按钮 Flush Pushbuttons
- 06 球面指示灯 Domed Indicators
- 07 带灯选择开关 Illuminated Selector Switches
- 08 带灯蘑菇头按钮 Illuminated Mushroom Head Pushbuttons
- 09 钥匙开关 Key Switches

HQ Series

按钮开关及指示灯



- 体型小，重量轻；
- 手指安全型端子结构；
- 保护等级: IP20(IEC60529)(面板前: IP65)合式触点块令安装和拆卸更方便；
- 树脂框型，金属框型种类丰富；
- 按钮开关、指示灯、选择开关，急停开关品种齐全；
- 备有符合国际标准的紧急停止按钮开关；
- 备有照明型与非照明型；
- 按锁定拉出或旋转复位；
- 直接开路动作功能(符合IEC60947-5-1附件K)；
- 安全锁定结构(IEC60947-5-5;6.2 项)；
- 指示灯采用大灯罩，确保更广阔的视角范围，增强了安全性；
- 按钮、灯罩及护罩均为磨光表面，降低因周围光线引起的反光；
- 获得UL、c-UL、CCC 认证，符合EN 标准。

HQ Series

Pushbuttons & Indicators

- Small size and light weight;
- Finger safety screw terminal;
- Protection level: IP20 (IEC60529) (front panel: IP65) combined contact block makes installation and disassembly more convenient;
- Resin frame type, rich in metal frame type;
- Button switch, indicator light, selector switch, emergency stop switch are complete;
- Emergency stop button switch in line with international standards;
- Available in both illuminated and non-illuminated versions;
- Press the lock to pull out or rotate the reset;
- Direct open action function (according to IEC60947-5-1 Annex K);
- Safety lock structure (IEC60947-5-5; item 6.2);
- The indicator light is covered with a large lampshade to ensure a wider viewing angle range and enhance safety.
- Buttons, shades and shields are polished surfaces to reduce reflections caused by ambient light;
- Obtained UL, c-UL, CCC certification, in line with EN standards.



技术参数 Technical Data

一般性能 General Data

工作温度 Operating Temperature	-20~+55°C(无结冰)
工作湿度 Operating Humidity	45~85%(无结露)
储存温度 Store Temperature	-45~+80°C
储存湿度 Store Humidity	95%RH以下
保护等级 Degree of Protection	面板前: P65(IEC 60529) 端子: IP20(IEC 60529)
绝缘电阻 Insulation Resistance	≥100MΩ (500V DC)
耐电压 Dielectric Strength	触点块:2,500V AC/1min 指示灯:2,000V AC/1min
耐振动 Vibration Resistance	紧急停止开关 - 误动作:10~55Hz 单振幅 0.35mm 50m/s ² 耐久性:10~55Hz 单振幅 0.35mm 50m/s ² 指示灯、按钮开关、带灯按钮、选择开关及钥匙开关 - 误动作:5~55Hz 单振幅 0.5mm 耐久性:30Hz 单振幅 1.5mm
抗冲击性 Shock resistance	紧急停止开关 - 误动作: 150 m/s ² 耐久性: 1,000 m/s ² 指示灯、按钮开关、带灯按钮开关、选择开关及钥匙开关 - 误动作: 100 m/s ² 耐久性: 1,000 m/s ²
机械寿命 Mechanical Life	紧急停止开关 - 2.5x10 ⁵ 次(仅单触点) 按钮开关、带灯按钮开关 - 瞬时型: 5x10 ⁵ 次(单触点); 1x10 ⁶ 次(双触点) - 交替型: 2.5x10 ⁵ 次(单触点); 1x10 ⁵ 次(双触点) 选择开关、钥匙开关 - 2.5x10 ⁵ 次(单触点) 1x10 ⁵ 次(双触点)
电气寿命 Electrical Life	紧急停止开关 - 1x10 ⁵ 次(仅单触点) 按钮开关、选择开关、钥匙开关: - 1x10 ⁵ 次(单触点) - 5x10 ⁴ 次(双触点)

触点参数 Contact Ratings

额定绝缘电压 Rated insulation voltage		600V			
额定通电电流 Rated current		10A			
额定使用电压 Rated voltage		24V	120V	240V	380V
AC (50/60Hz)	电阻性负载(AC-12)	10A	10A	6A	2A
	电感性负载(AC-15)	10A	6A	3A	1.9A
DC	电阻性负载(DC-12)	8A	2.2A	1.1A	-
	电感性负载(DC-13)	4A	1.1A	0.55A	-

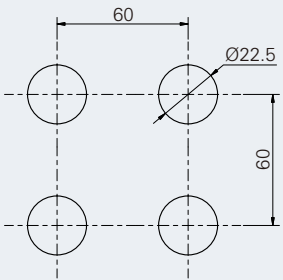
最小适用负载(参考值) = 3V AC/DC · 5mA(可使用范围取决于使用条件和负载类型)。
触点为银触点。

LED灯珠参数 LED Ratings

型号 Unit type	额定电压 Operating Voltage	消耗电流 Current consumption	②颜色编码 Color code
HQL②	6V AC/DC	10mA(R, Y)	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
		7mA(G, B)	
	12V AC/DC	14mA(R, Y)	
		13mA(G, B)	
	24V AC/DC	14mA(R, Y)	
		13mA(G, B)	
	110V AC	5mA	
	220V AC	3mA	

注: 上表型号中的②为颜色编码。

安装孔尺寸 Hole size



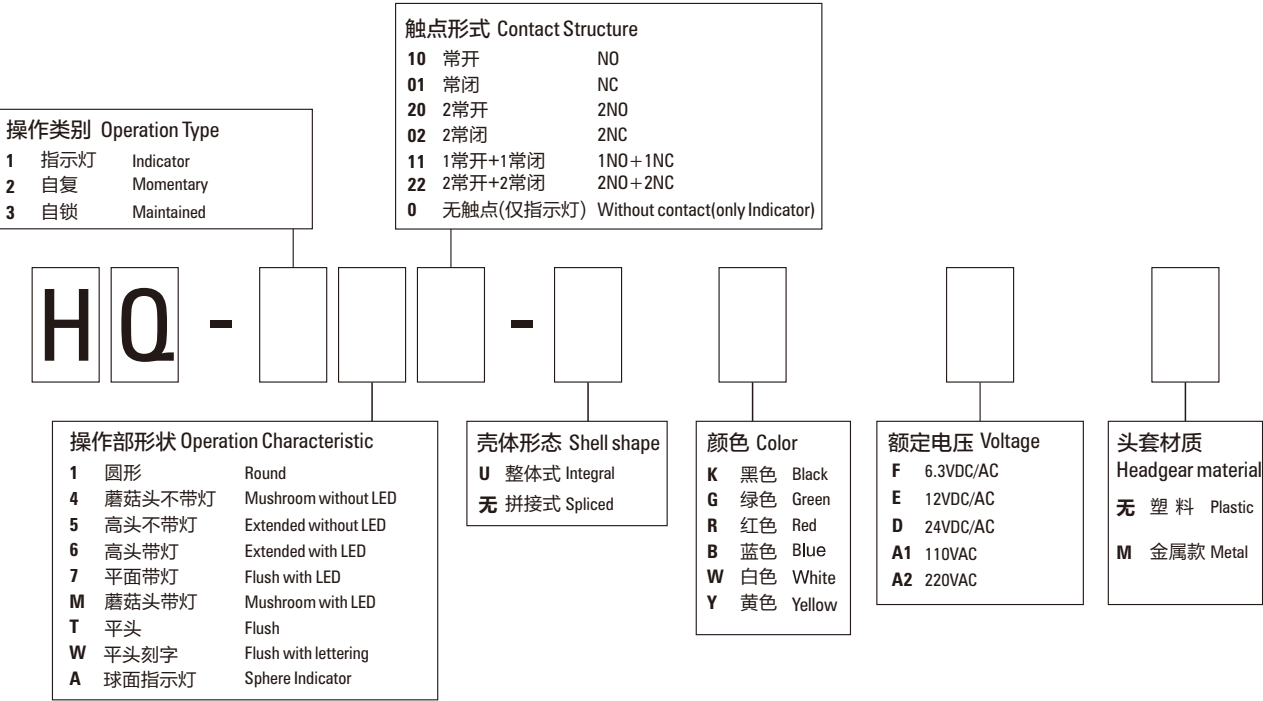
安装深度尺寸 Mounting Depth Dimensions



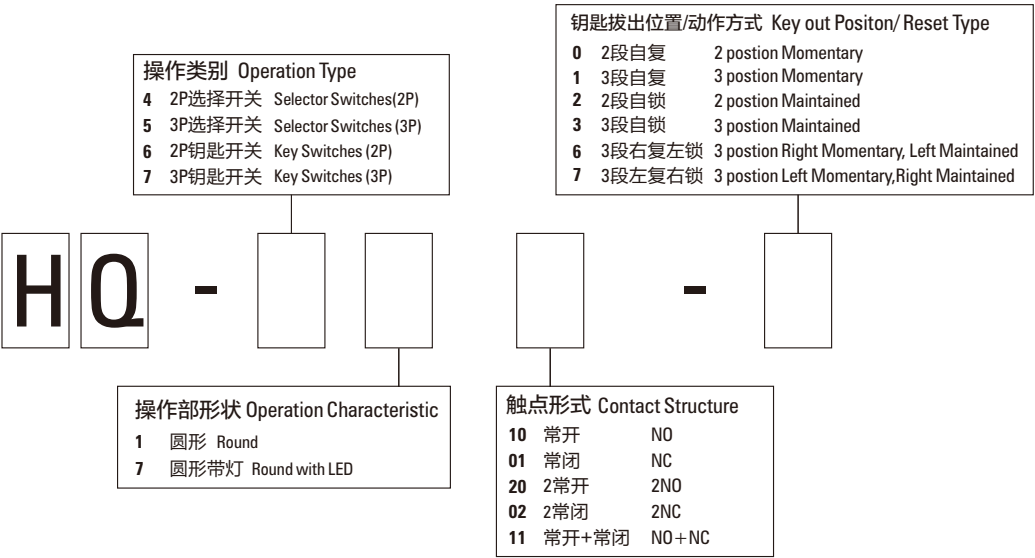
HQ Series

按钮开关及指示灯

按钮开关型号命名 Pushbuttons Select Code



选择和钥匙开关型号命名 Selector and Key Switches Select Code



	复位方式 Reset Type		钥匙拔出位置 Key out Positon	
区分 Sort	自锁 Maintained	自复 Momentary		
2段 2Positon 代号 Code	 2	 0	 A	 B
3段 3Positon 代号 Code	 3	 7  6  1	 A	 B

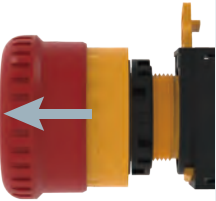
选择/钥匙旋转角度90°是基本 Selector/Key basic rotation angle 90°

HQ Series

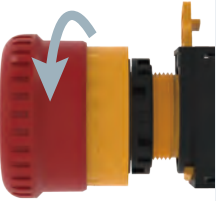
Pushbuttons & Indicators

操作示意图 Operation Diagram

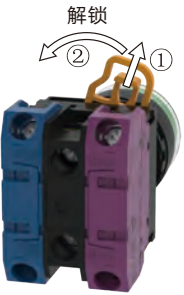
1 拉出复位



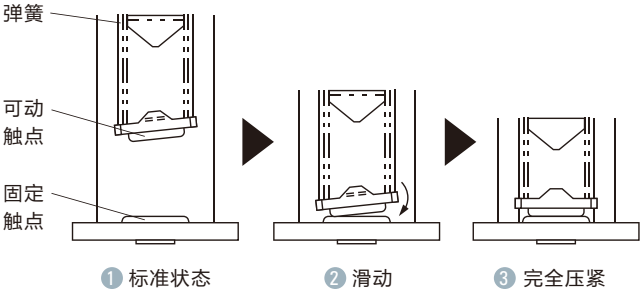
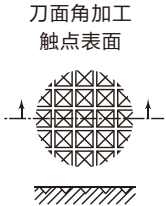
2 旋转复位



3 自保持型销锁杆



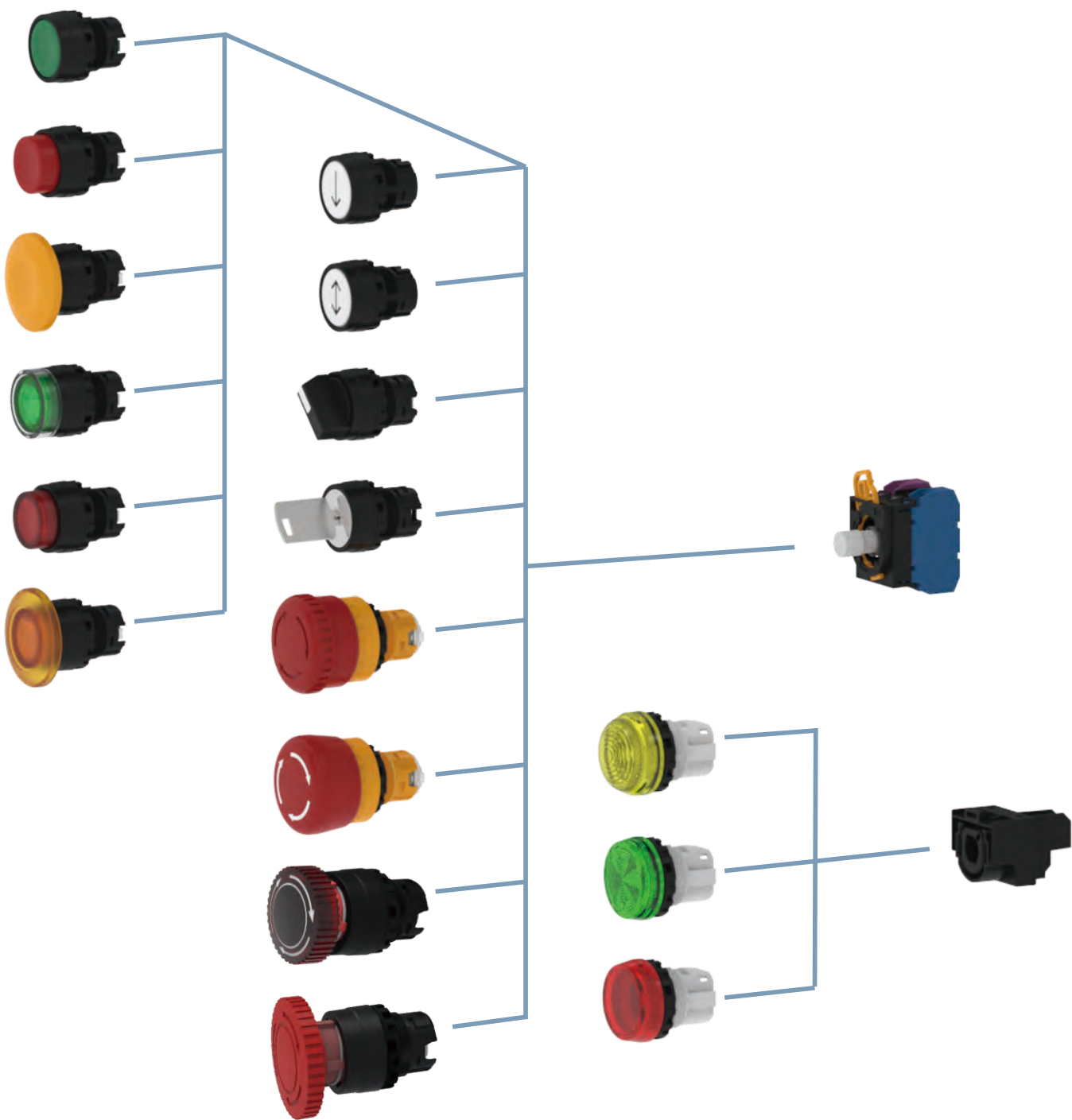
- 高耐受结构设计
- 表面刀面角加工型
自洁式滑动结构触点
- 滑动结构



产品结构 Product structure



组合方式 Combination Mode



HQ Series

按钮开关及指示灯

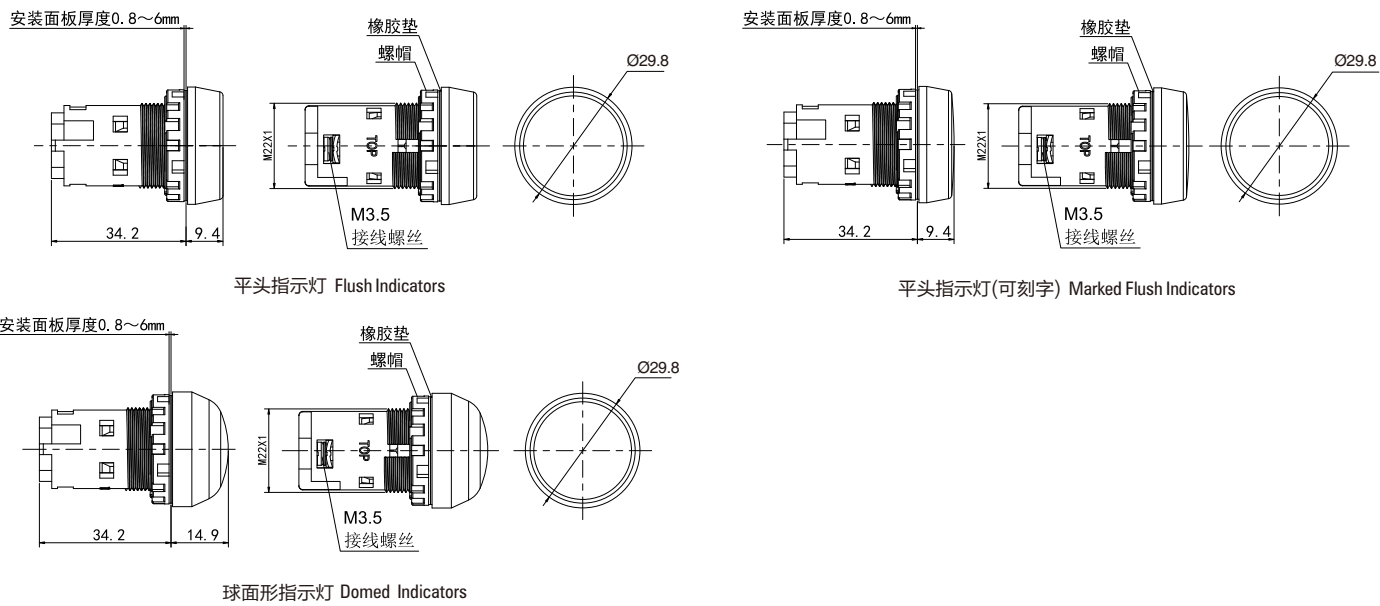
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Pushbuttons & Indicators

指示灯 Indicators

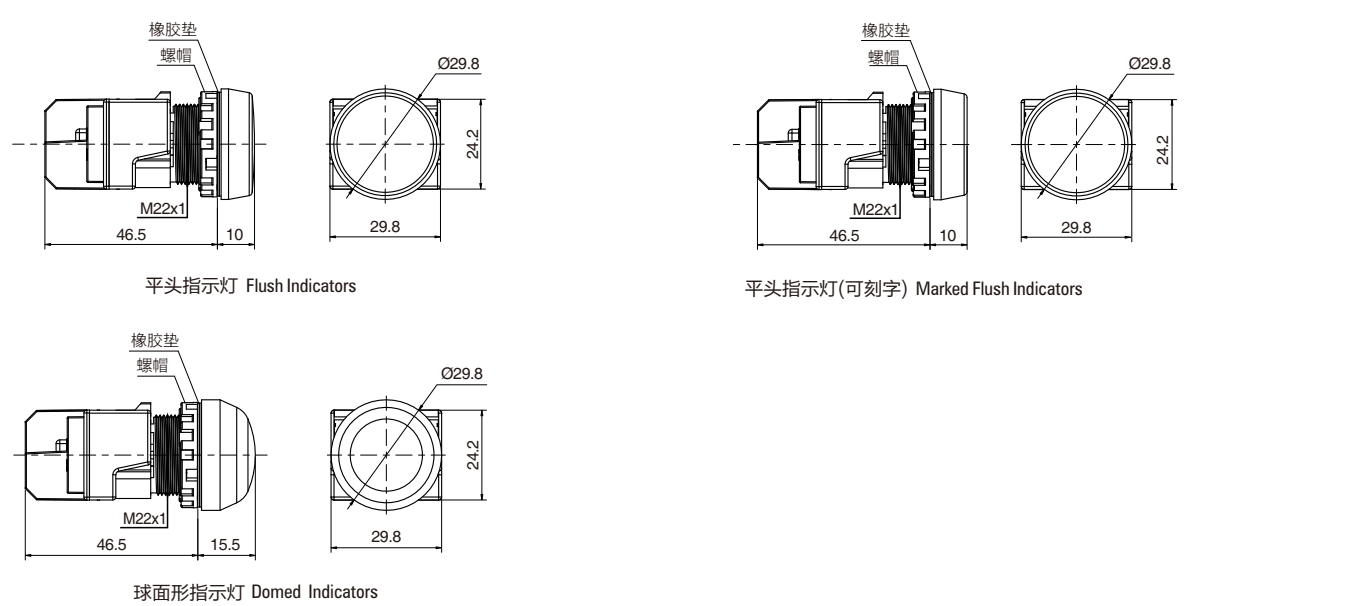
名称外观 Appearance	产品型号 Model	带灯形式 Illuminated type	颜色 Color	额定电压 Rated Voltage
平头指示灯 Flush Indicators				
	HQ-1T0-U	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
平头指示灯(可刻字) Marked Flush Indicators				
	HQ-1W0-U	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
球形指示灯 Domed Indicators				
	HQ-1A0-U	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC

外形尺寸 Dimensions



名称外观 Appearance	产品型号 Model	带灯形式 Illuminated type	颜色 Color	额定电压 Rated Voltage
平头指示灯 Flush Indicators				
	HQ-1T0	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
平头指示灯(可刻字) Marked Flush Indicators				
	HQ-1W0	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
球形指示灯 Domed Indicators				
	HQ-1A0	带灯 With LED	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC

外形尺寸 Dimensions



HQ Series

按钮开关及指示灯

HQ Series

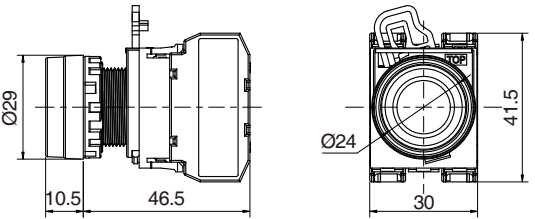
Pushbuttons & Indicators

按钮开关 Pushbuttons

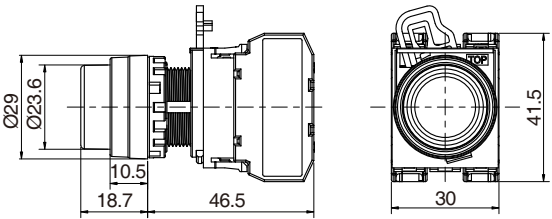
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	操作类别 Operation Type	颜色 Color
平头按钮 Flush Pushbuttons				
	HQ-2110	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2101	1NC		
	HQ-2120	2NO		
	HQ-2102	2NC		
	HQ-2111	1NO + 1NC		
	HQ-3110	1NO	自锁 Maintained	
	HQ-3101	1NC		
	HQ-3120	2NO		
	HQ-3102	2NC		
	HQ-3111	1NO + 1NC		
高头按钮 Flush Pushbuttons				
	HQ-2510	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2501	1NC		
	HQ-2520	2NO		
	HQ-2502	2NC		
	HQ-2511	1NO + 1NC		
	HQ-3510	1NO	自锁 Maintained	
	HQ-3501	1NC		
	HQ-3520	2NO		
	HQ-3502	2NC		
	HQ-3511	1NO + 1NC		
蘑菇头按钮 Mushroom head Pushbuttons				
	HQ-2410	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2401	1NC		
	HQ-2420	2NO		
	HQ-2402	2NC		
	HQ-3411	1NO + 1NC		
	HQ-3410	1NO	自锁 Maintained	
	HQ-3401	1NC		
	HQ-3420	2NO		
	HQ-3402	2NC		
	HQ-3411	1NO + 1NC		

外形尺寸 Dimensions

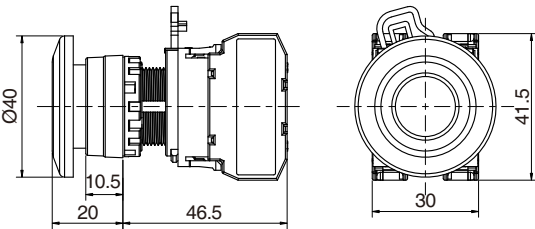
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平头按钮 Flush Pushbuttons



高头按钮 Flush Pushbuttons

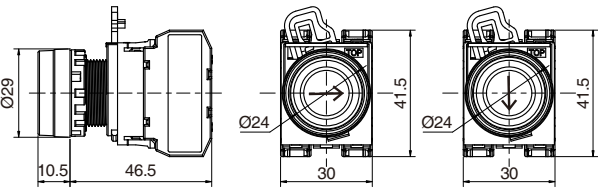


蘑菇头按钮 Mushroom head Pushbuttons

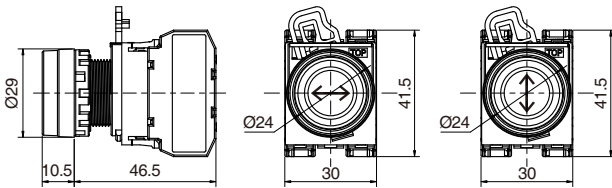
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	操作类别 Operation Type	颜色 Color
单箭头平头按钮 Single Arrow Flush Pushbuttons	HQ-2110-DJT	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2101-DJT	1NC		
	HQ-2120-DJT	2NO		
	HQ-2102-DJT	2NC		
	HQ-2111-DJT	1NO + 1NC		
双箭头平头按钮 Double Arrow Flush Pushbuttons	HQ-2110-SJT	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2101-SJT	1NC		
	HQ-2120-SJT	2NO		
	HQ-2102-SJT	2NC		
	HQ-2111-SJT	1NO + 1NC		
双箭头平头按钮 Double Arrow Flush Pushbuttons	HQ-2110-SJT (0°)	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2101-SJT (0°)	1NC		
	HQ-2120-SJT (0°)	2NO		
	HQ-2102-SJT (0°)	2NC		
	HQ-2111-SJT (0°)	1NO + 1NC		
双箭头平头按钮 Double Arrow Flush Pushbuttons	HQ-2110-DJT (0°)	1NO	自复 Momentary	K 黑色 Black G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow
	HQ-2101-DJT (0°)	1NC		
	HQ-2120-DJT (0°)	2NO		
	HQ-2102-DJT (0°)	2NC		
	HQ-2111-DJT (0°)	1NO + 1NC		

外形尺寸 Dimensions

(单位unit: mm)



单箭头平头按钮 Single Arrow Flush Pushbuttons



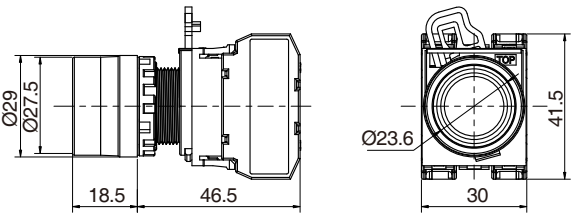
双箭头平头按钮 Double Arrow Flush Pushbuttons

带灯按钮开关 Illuminated Pushbuttons

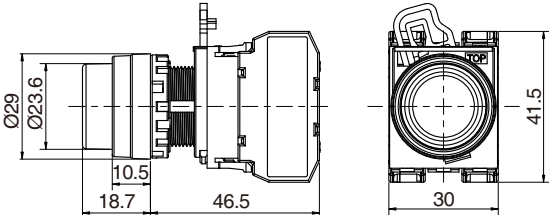
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	操作类别 Operation Type	颜色 Color	额定电压 Rated Voltage	
带灯平头按钮 Illuminated Flush Pushbuttons		HQ-2710	1NO	自复 Momentary	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-2701	1NC				
	HQ-2720	2NO				
	HQ-2702	2NC				
	HQ-2711	1NO + 1NC	自锁 Maintained			
	HQ-3710	1NO				
	HQ-3701	1NC				
	HQ-3720	2NO				
	HQ-3702	2NC				
	HQ-3711	1NO + 1NC				
带灯高头按钮 Illuminated Extended Pushbuttons		HQ-2610	1NO	自复 Momentary	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-2601	1NC				
	HQ-2620	2NO				
	HQ-2602	2NC				
	HQ-2611	1NO + 1NC	自锁 Maintained			
	HQ-3610	1NO				
	HQ-3601	1NC				
	HQ-3620	2NO				
	HQ-3602	2NC				
	HQ-3611	1NO + 1NC				
带灯蘑菇头按钮 Illuminated Mushroom head Pushbuttons		HQ-2M10	1NO	自复 Momentary	G 绿色 Green R 红色 Red B 蓝色 Blue W 白色 White Y 黄色 Yellow	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-2M01	1NC				
	HQ-2M20	2NO				
	HQ-2M02	2NC				
	HQ-2M11	1NO + 1NC	自锁 Maintained			
	HQ-3M10	1NO				
	HQ-3M01	1NC				
	HQ-3M20	2NO				
	HQ-3M02	2NC				
	HQ-3M11	1NO + 1NC				

外形尺寸 Dimensions

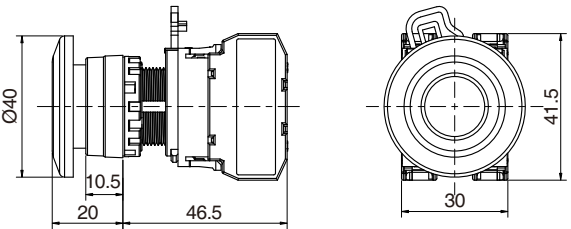
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带灯平头按钮 Illuminated Flush Pushbuttons



带灯高头按钮 Illuminated Extended Pushbuttons



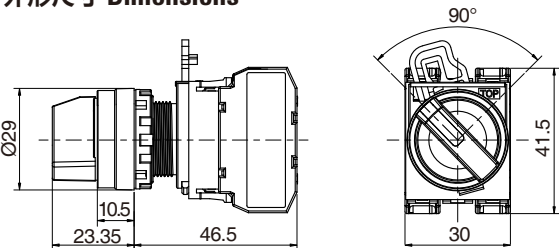
带灯蘑菇头按钮 Illuminated Mushroom head Pushbuttons

选择开关 Selector Switches

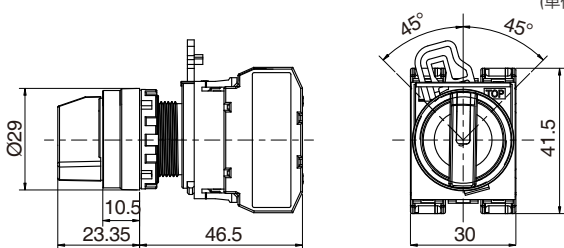
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	位数 Positions	操作类别 Operation Type
	HQ-4110-0	1NO	2位置 2 Positions	自复 Momentary 
	HQ-4101-0	1NC		
	HQ-4120-0	2NO		
	HQ-4102-0	2NC		
	HQ-4111-0	1NO + 1NC		自锁 Maintained 
	HQ-4110-2	1NO		
	HQ-4101-2	1NC		
	HQ-4120-2	2NO		
	HQ-4102-2	2NC		
	HQ-4111-2	1NO + 1NC		
	HQ-5120-1	2NO	3位置 3 Positions	自复 Momentary 
	HQ-5102-1	2NC		自锁 Maintained 
	HQ-5111-1	1NO + 1NC		
	HQ-5120-3	2NO		右复左锁 Right Momentary Left Maintained 
	HQ-5102-3	2NC		
	HQ-5111-3	1NO + 1NC		左复右锁 Left Momentary Right Maintained 
	HQ-5120-6	2NO		
	HQ-5102-6	2NC		
	HQ-5111-6	1NO + 1NC		
	HQ-5120-7	2NO		
	HQ-5102-7	2NC		
	HQ-5111-7	1NO + 1NC		

外形尺寸 Dimensions

(单位unit: mm)



2P选择开关 2P Selector Switches

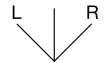


3P选择开关 3P Selector Switches

带灯选择开关 Illuminated Selector Switches

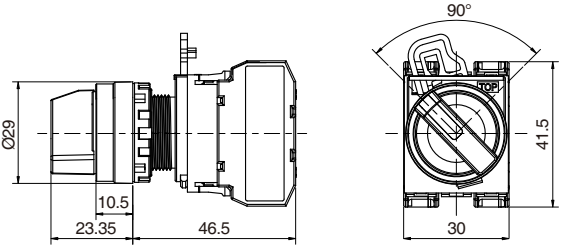
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	位数 Positions	操作类别 Operation Type	额定电压 Rated Voltage
2P带灯选择开关 2P Illuminated Selector Switches					
	HQ-4710-0	1NO	2位置 2 Positions	自复 Momentary	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-4701-0	1NC			
	HQ-4720-0	2NO		自锁 Maintained	
	HQ-4702-0	2NC			
	HQ-4711-0	1NO+1NC			
	HQ-4710-2	1NO			
	HQ-4701-2	1NC			
	HQ-4720-2	2NO			
	HQ-4702-2	2NC			
	HQ-4711-2	1NO+1NC			
3P带灯选择开关 3P Illuminated Selector Switches					
	HQ-5720-1	2NO	3位置 3 Positions	自复 Momentary	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-5702-1	2NC		自锁 Maintained	
	HQ-5711-1	1NO+1NC		右复左锁 Right Momentary Left Maintained	
	HQ-5720-3	2NO			
	HQ-5702-3	2NC		左复右锁 Left Momentary Right Maintained	
	HQ-5711-3	1NO+1NC			
	HQ-5720-6	2NO		自锁 Maintained	
	HQ-5702-6	2NC			
	HQ-5711-6	1NO+1NC			
	HQ-5720-7	2NO			
	HQ-5702-7	2NC			
	HQ-5711-7	1NO+1NC			

钥匙开关 Key Switches

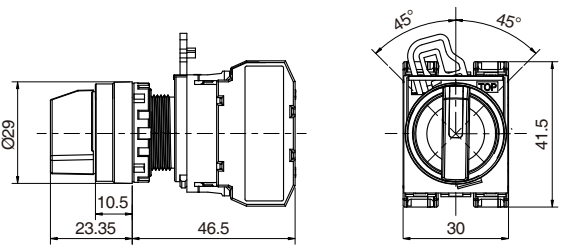
名称外观 Appearance	产品型号 Model	触点形式 Contact Type	位数 Positions	操作类别 Operation Type	
2P钥匙开关 2P Key Switches					
	HQ-6110-0	1NO	2位置 2 Positions	自复 Momentary	
	HQ-6101-0	1NC			
	HQ-6120-0	2NO		自锁 Maintained	
	HQ-6102-0	2NC			
	HQ-6111-0	1NO+1NC			
	HQ-6110-2	1NO			
	HQ-6101-2	1NC			
	HQ-6120-2	2NO			
	HQ-6102-2	2NC			
	HQ-6111-2	1NO+1NC			
3P钥匙开关 3P Key Switches					
	HQ-7120-1	2NO	3位置 3 Positions	自复 Momentary	
	HQ-7102-1	2NC		自锁 Maintained	
	HQ-7111-1	1NO+1NC			
	HQ-7120-3	2NO		右复左锁 Right Momentary Left Maintained	
	HQ-7102-3	2NC			
	HQ-7111-3	1NO+1NC		左复右锁 Left Momentary Right Maintained	
	HQ-7120-6	2NO			
	HQ-7102-6	2NC			
	HQ-7111-6	1NO+1NC			
	HQ-7120-7	2NO			
	HQ-7102-7	2NC			
	HQ-7111-7	1NO+1NC			

外形尺寸 Dimensions

(单位unit: mm)



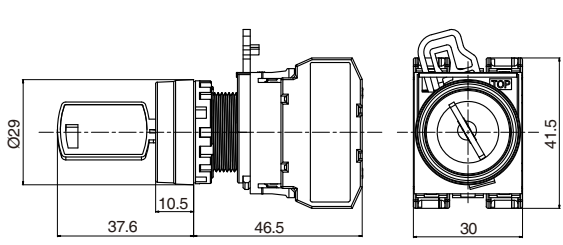
2P带灯选择开关 2P Illuminated Selector Switches



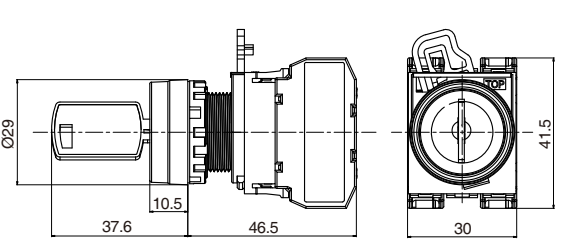
3P带灯选择开关 3P Illuminated Selector Switches

外形尺寸 Dimensions

(单位unit: mm)



2P钥匙开关 2P Key Switches



3P钥匙开关 3P Key Switches

HQ Series

按钮开关及指示灯

HQ Series

Pushbuttons & Indicators

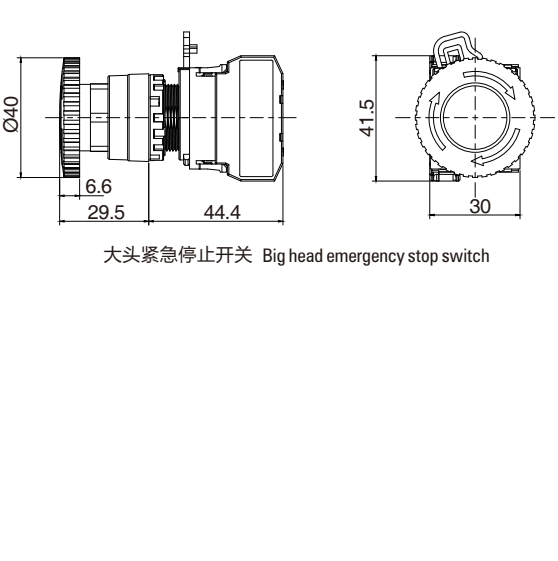
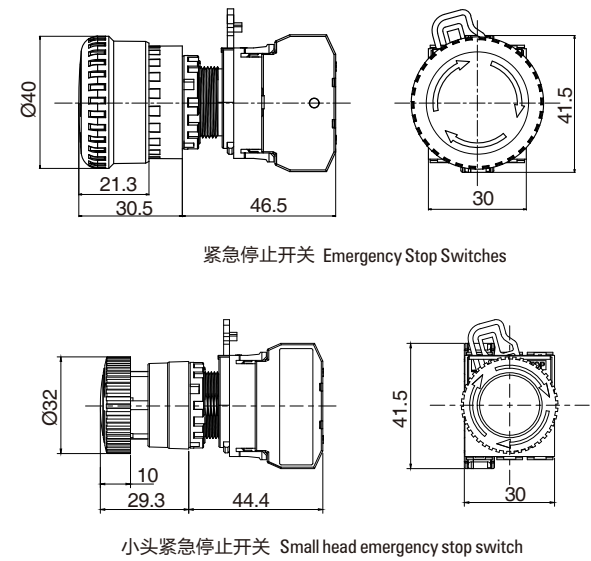
紧急停止开关 Emergency Stop Switches

名称外观 Appearance	产品型号 Model	触点形式 Contact Type	操作类别 Operation Type	颜色 Color
紧急停止开关 Emergency Stop Switches				
	HQ-8101	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red
	HQ-8102	2NC		
大头紧急停止开关 Big head emergency stop switch				
	HQ-8101-NB	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red
	HQ-8102-NB	2NC		
小头紧急停止开关 Small head emergency stop switch				
	HQ-8101-NS	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red
	HQ-8102-NS	2NC		

注：按钮按下后呈锁定状态，拉出或顺时针旋转复位。
When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

(单位unit: mm)

外形尺寸 Dimensions



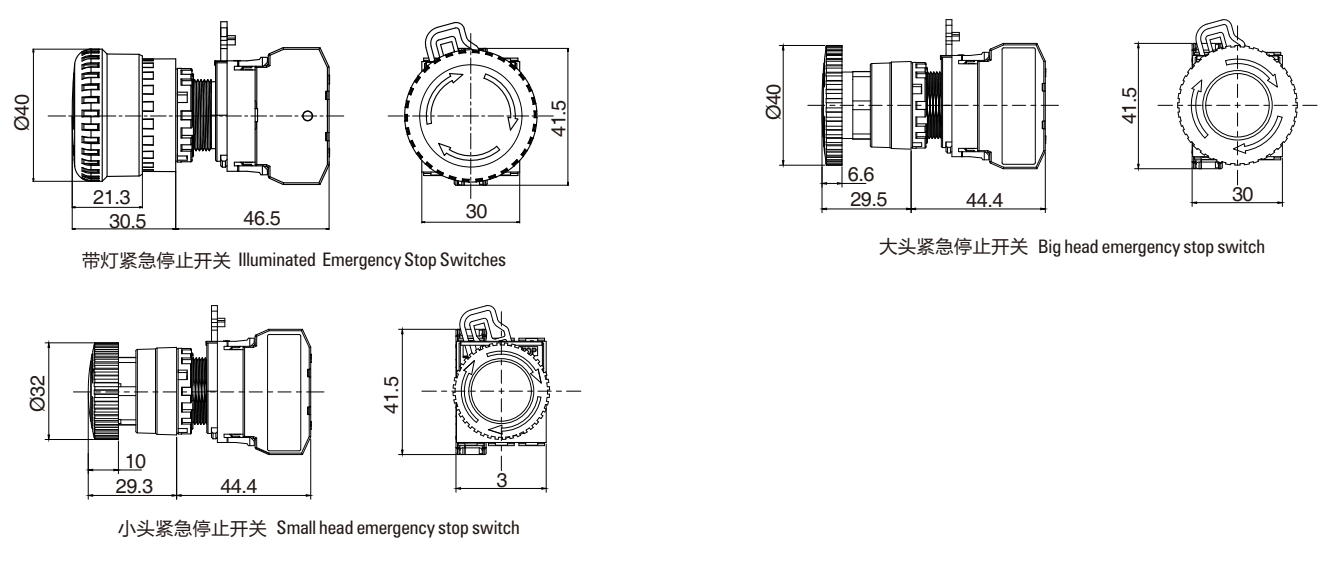
带灯紧急停止开关 Illuminated Emergency Stop Switches

名称外观 Appearance	产品型号 Model	触点形式 Contact Type	操作类别 Operation Type	颜色 Color	额定电压 Rated Voltage
带灯紧急停止开关 Illuminated Emergency Stop Switches					
	HQ-8701	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-8702	2NC			
大头紧急停止开关 Big head emergency stop switch					
	HQ-8701-NB	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-8702-NB	2NC			
小头紧急停止开关 Small head emergency stop switch					
	HQ-8701-NS	1NC	按锁定拉出旋转复位 Push-lock Turn Reset	红色 Red	F 6.3VDC/AC E 12VDC/AC D 24VDC/AC A1 110VAC A2 220VAC
	HQ-8702-NS	2NC			

注：按钮按下后呈锁定状态，拉出或顺时针旋转复位。
When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

(单位unit: mm)

外形尺寸 Dimensions



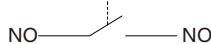
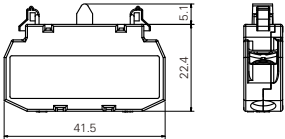
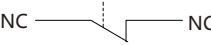
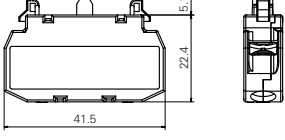
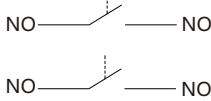
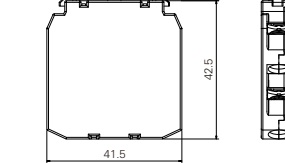
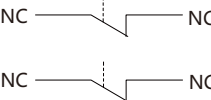
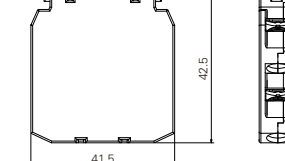
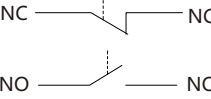
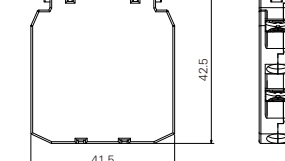
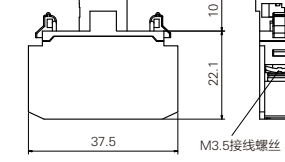
Accessories Series

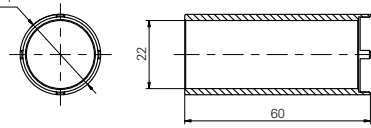
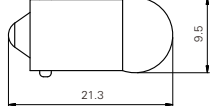
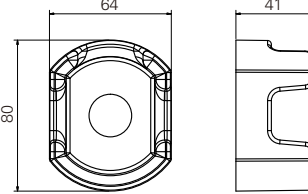
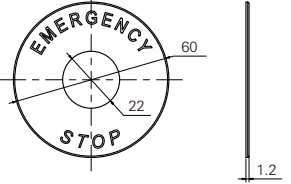
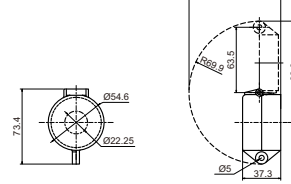
配件系列

Accessories Series

配件系列

配件系列 Accessories Series

外观 Appearance	产品型号 Model	名称 Name	线路图 Wiring Diagram	外形尺寸 Dimensions
	HQ-10P	常开触点 1NO		
	HQ-01P	常闭触点 1NC		
	HQ-S20P	双组常开触点 2NO		
	HQ-S02P	双组常闭触点 2NC		
	HQ-S11P	双组 一常开触点+一常闭触点 1NO+1NC		
	HQ-LED	灯基座 Lamp holder		

外观 Appearance	产品型号 Model	名称 Name	外形尺寸 Dimensions
	HQ-B	螺母扳手 Nut spanner	
	HQL ②	LED灯珠 LED lamp	
	JP22	急停保护罩 Emergency stop protection cover	
	JC22	警示牌 Warning sign	
	KEG3	保护罩 Protective cover	
	HQ-SD	HQ螺母安装扳手 HQ nut mounting wrench	