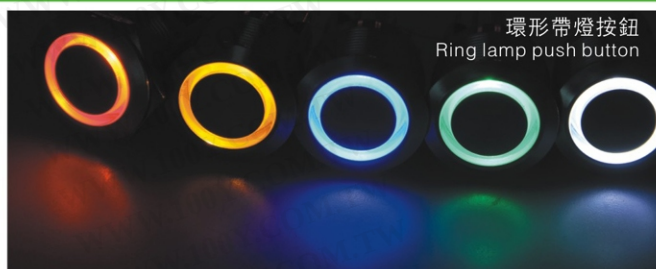
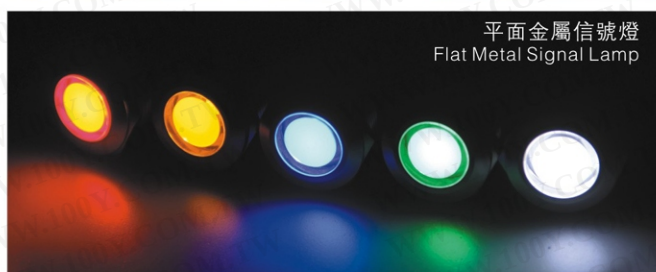


>> 發光體的效果圖 Luminous Effect



>> 顏色外殼效果圖 Color Shell Effect Chart



>> 型號說明 Metal Push Button Switch

<div>頭部釋義</div> <div>Head Type</div>	F/平面 T/斜面 C/凹凸 H/高頭 B/球面 E/環形燈 D/中心燈 F/Flat T/Inclined C/Concave H/High B/Ball E/Ring lamp D/Center lamp	<div>▲燈珠顏色</div> <div>LED Color</div>	<div>R</div> <div>G</div> <div>Y</div> <div>O</div> <div>B</div> <div>W</div>	<div>△帶燈電壓</div> <div>LED Voltage</div>	3V/6V/12V/24V/ 36V/48V/110V/ 220V
<div>外殼材料</div> <div>Material</div>	N/黃銅鍍鉻 A/鋅合金鍍鉻 S/不銹鋼 N/Chromium plated brass A/Zinc alloy plated chromium S/Stainless steel	<div>接綫方式</div> <div>Mode of connection</div>	J/焊接式(1NO) 10/接綫柱(1NO) 11/單刀(1NO,1NC) 22/雙刀(2NO,2NC) J/Pin terminal(1NO) 10/Wiring terminal(1NO) 11/Single pole(1NO,1NC) 22/Double knife(2NO,2NC)		
<div>操作類型</div> <div>Operation</div>	無字母表示自復 Z:自鎖 X:旋鈕 Y:鑰匙鈕 TS:急停鈕 M:蜂鳴 SM:閃光蜂鳴 No letter momentary Z:alternate X:selector Y:key lock switch TS:emergency push button M:buzzer SM:flash with buzzer				

>> 開關結構說明 Switching Operation

型式Type	符號Sign	示意圖Diagram	說明Explanation
No.2	1 2 3 4		具有四個端子的雙斷電快動轉換觸頭開關 Using four terminals, double-break and fast-motion change-over contact.

>> 相關認證Related certification

符合IEC60947-5-1 GB14048.5標準 Conform to IEC60947-5-1 GB14048.5 Standard	RoHS SGS FC CE A
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>> 開關結構說明 Switching Operation

額定絕緣電壓Rated insulation voltage	250			
發熱電流Heating current I _{th}	3A溫度不超過最大額定值所允許的電流Temperature does not exceed the maximum allowed current			
額定使用電壓 Rated voltage	12V	24V	110V	220V
額定使用電流 Rated current	交流AC 50/60Hz 電阻性負載Resistive load	-	5A	3A
	電感性負載Inductive load	-	3A	2A
	直流DC 電感性負載Inductive load	5A	1A	0.5A
	電阻性負載Resistive load	2A	0.2A	0.1A
觸點材料Contact material	銀鍍金Silver Plated Gold			

最小適應負載:3V AC/DC 5mA(參考值)
(可使用範圍取決於使用環境和負載種類)

>> 燈珠規格 Lamp Ratings

燈珠類型Lamp Type	雙向LED燈珠(交直流通用) LED lamp(AC/DC)	燈珠等效電路 Lamp Circuit diagram 內置電阻; 採用6V燈珠, 需外接電阻。 採用交直流通用的LED燈珠, 接線端子無正負極區分; 60V以下燈珠已內置保護電阻; Using AC/DC LED lamp, the terminals have no difference of anode and cathode. Using inner resistance for the lamp below 60V. Using 6V lamp when the lamp voltage is above 60V, and need connect outer dropping resistance.
額定電壓Rated Voltage	3V, 6V, 12V, 24V, 36V, 110V, 220VAC/DC	
額定電流Rated Current	約15mA 約2mA About 15mA About 2mA	
發光顏色LED Color	R G Y O B W	
壽命Life	4000小時(參考值) 40000 hours(Reference)	

注: 如需單向直流LED燈珠可定做; 其他電壓規格可按需求定做。
DC LED and other voltage can be made to order.

>> 按鈕效果圖Button effect chart

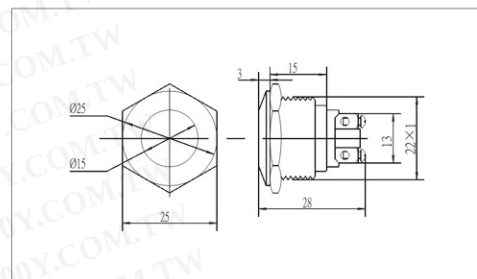


>> Φ22金屬按鈕開關 Metal Push Button Switch



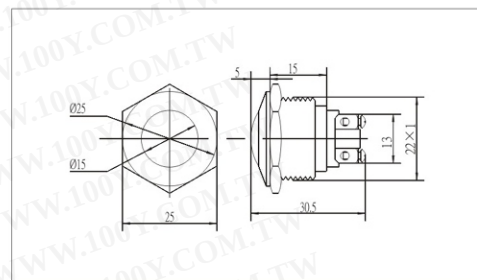
MP22S/F10

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 平面 Flat
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10



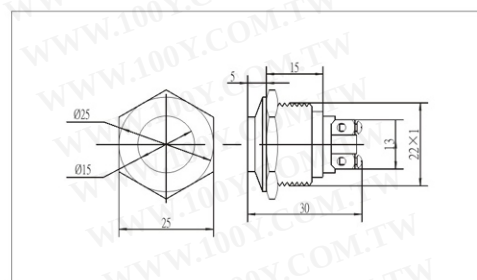
MP22S/B10

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 球面 Ball
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10



MP22S/H10

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 高頭 High
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10



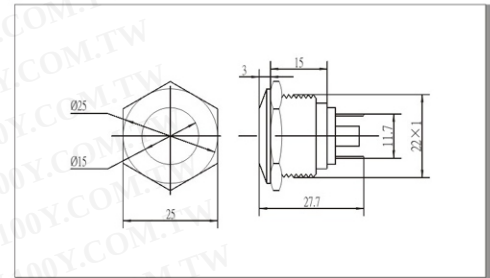
產品規格		Specification	MP22S/F10	MP22S/B10	MP22S/H10
尾部配置	Terminal Type		接線柱Wiring terminal	接線柱Wiring terminal	接線柱Wiring terminal
開關結構	Switching		NO.1	NO.1	NO.1
開關規格	Max. Switch Rating		5A/250VAC	5A/250VAC	5A/250VAC
接觸電阻	Contact Resistance		≤50mΩ	≤50mΩ	≤50mΩ
絕緣電阻	Insulation Resistance		≥1000MΩ	≥1000MΩ	≥1000MΩ
絕緣強度	Dielectric Intensity		2000VAC	2000VAC	2000VAC
環境溫度	Operating Temp		-20℃~+55℃	-20℃~+55℃	-20℃~+55℃
機械壽命	Mechanical Life		100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles
電氣壽命	Electrical Life		5萬次以上50,000 cycles	5萬次以上50,000 cycles	5萬次以上50,000 cycles
面板厚度	Panel Thickness		1-6mm	1-6mm	1-6mm
螺母扭矩	Torque		5-14Nm	5-14Nm	5-14Nm
操作壓力	Operation Pressure		約5.5N About 5.5N	約5.5N About 5.5N	約5.5N About 5.5N
操作行程	Operation Travel		約2.5mm About 2.5mm	約2.5mm About 2.5mm	約2.5mm About 2.5mm
防護等級	IP Degree		IP67, IK10	IP67, IK10	IP67, IK10
材料	觸點	Contact	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold
	按鈕	Button	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	外殼	Body	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	底座	Base	PC	PC	PC
帶燈部分參數	RohS	RohS	可定制Made to order	可定制Made to order	可定制Made to order
	帶燈類型	Lamp type			
	額定電壓	Rated Voltage(Ue)			
	燈珠顏色	Color			
Spec.	燈珠壽命	Life			

>> Φ22金屬按鈕開關 Metal Push Button Switch



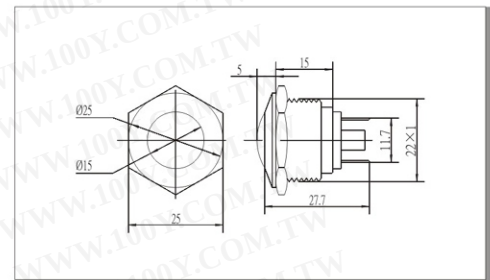
MP22S/FJ

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 平面 Flat
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10



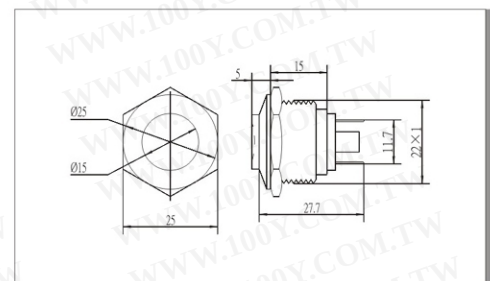
MP22S/BJ

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 球面 Ball
外殼材料
The Crust Material: 不銹鋼Stainless steel/
防護等級IP Degree: IP67, IK10



MP22S/HJ

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO(可定制1NC)
1NO (Made to order 1NC)
操作類型Operation Type: 自復型Momentary
頭部形狀The Front Shape: 高頭 High
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10



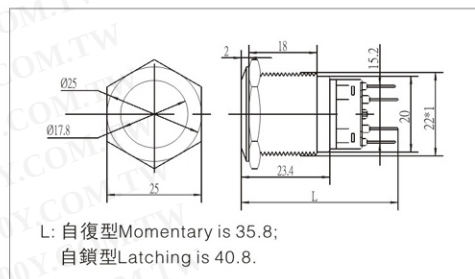
產品規格		Specification	MP22S/FJ	MP22S/BJ	MP22S/HJ
尾部配置	Terminal Type		接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)
開關結構	Switching		NO.1	NO.1	NO.1
開關規格	Max. Switch Rating		5A/250VAC	5A/250VAC	5A/250VAC
接觸電阻	Contact Resistance		≤50mΩ	≤50mΩ	≤50mΩ
絕緣電阻	Insulation Resistance		≥1000MΩ	≥1000MΩ	≥1000MΩ
絕緣強度	Dielectric Intensity		2000VAC	2000VAC	2000VAC
環境溫度	Operating Temp		-20℃~+55℃	-20℃~+55℃	-20℃~+55℃
機械壽命	Mechanical Life		100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles
電氣壽命	Electrical Life		5萬次以上50,000 cycles	5萬次以上50,000 cycles	5萬次以上50,000 cycles
面板厚度	Panel Thickness		1-6mm	1-6mm	1-6mm
螺母扭矩	Torque		5-14Nm	5-14Nm	5-14Nm
操作壓力	Operation Pressure		約5.5N About 5.5N	約5.5N About 5.5N	約5.5N About 5.5N
操作行程	Operation Travel		約2.5mm About 2.5mm	約2.5mm About 2.5mm	約2.5mm About 2.5mm
防護等級	IP Degree		IP67, IK10	IP67, IK10	IP67, IK10
材料	觸點	Contact	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold
	按鍵	Button	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	外殼	Body	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	底座	Base	PC	PC	PC
	RohS	RohS	可定制Made to order	可定制Made to order	可定制Made to order
帶燈	帶燈類型	Lamp type			
部分	額定電壓	Rated Voltage(Ue)			
參數	燈珠顏色	Color			
LED	燈珠壽命	Life			
Spec.					

>> Φ22金屬按鈕開關 Metal Push Button Switch



MP022S/F11

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO 1NC
操作類型Operation Type: 自復型Momentary
自鎖型Alternatewith(Z)
頭部形狀The Front Shape: 平面 Flat
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK10

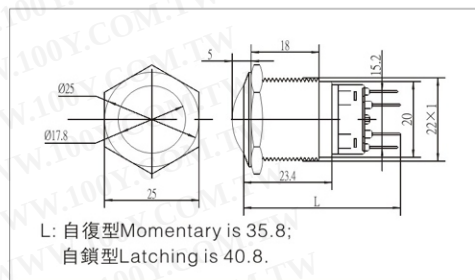


L: 自復型Momentary is 35.8;
自鎖型Latching is 40.8.



MP022S/B11

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO 1NC
操作類型Operation Type: 自復型Momentary
自鎖型Alternatewith(Z)
頭部形狀The Front Shape: 球面 Ball
外殼材料
The Crust Material: 不銹鋼Stainless steel/
防護等級IP Degree: IP67, IK08

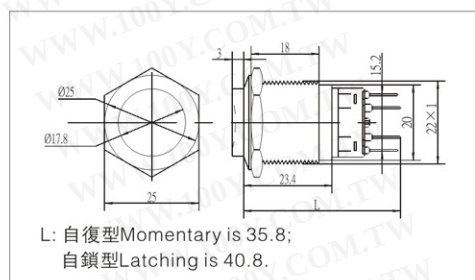


L: 自復型Momentary is 35.8;
自鎖型Latching is 40.8.



MP022S/H11

安裝尺寸Diameter: Φ22mm
開關額定值Switch Rating: 5A/250VAC
開關組合
Contact Configuration: 1NO 1NC
操作類型Operation Type: 自復型Momentary
自鎖型Alternatewith(Z)
頭部形狀The Front Shape: 高頭 High
外殼材料
The Crust Material: 不銹鋼Stainless steel
防護等級IP Degree: IP67, IK08



L: 自復型Momentary is 35.8;
自鎖型Latching is 40.8.

產品規格		Specification	MP022S/F11	MP022S/B11	MP022S/H11
尾部配置	Terminal Type		接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)
開關結構	Switching		NO.2	NO.2	NO.2
開關規格	Max. Switch Rating		5A/250VAC	5A/250VAC	5A/250VAC
接觸電阻	Contact Resistance		≤50mΩ	≤50mΩ	≤50mΩ
絕緣電阻	Insulation Resistance		≥1000MΩ	≥1000MΩ	≥1000MΩ
絕緣強度	Dielectric Intensity		2000VAC	2000VAC	2000VAC
環境溫度	Operating Temp		-20℃~+55℃	-20℃~+55℃	-20℃~+55℃
機械壽命	Mechanical Life		100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles
電氣壽命	Electrical Life		5萬次以上50,000 cycles	5萬次以上50,000 cycles	5萬次以上50,000 cycles
面板厚度	Panel Thickness		1-6mm	1-6mm	1-6mm
螺母扭矩	Torque		5-14Nm	5-14Nm	5-14Nm
操作壓力	Operation Pressure		約5.5N About 5.5N	約5.5N About 5.5N	約5.5N About 5.5N
操作行程	Operation Travel		約2.5mm About 2.5mm	約2.5mm About 2.5mm	約2.5mm About 2.5mm
防護等級	IP Degree		IP67, IK10	IP67, IK10	IP67, IK10
材料	觸點	Contact	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold
	按鈕	Button	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	外殼	Body	不銹鋼Stainless steel	不銹鋼Stainless steel	不銹鋼Stainless steel
	底座	Base	PC	PC	PC
帶燈部分參數	RohS	RohS	可定制Made to order	可定制Made to order	可定制Made to order
	帶燈類型	Lamp type			
	額定電壓	Rated Voltage(Ue)			
	燈珠顏色	Color			
LED Spec.	燈珠壽命	Life			



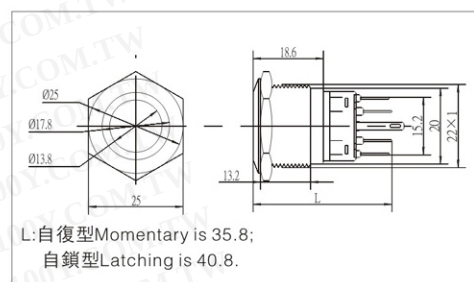
MP022 金屬按鈕開關系列 MP022 Metal Push Button Switch Series



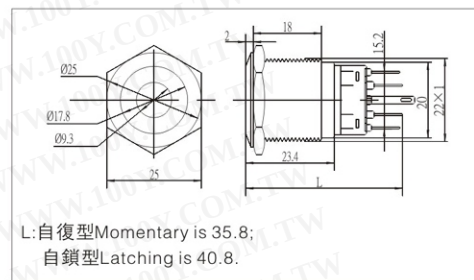
>> Φ22金屬按鈕開關 Metal Push Button Switch



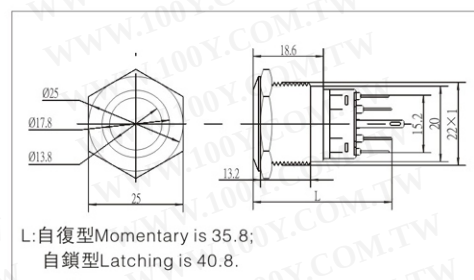
安裝尺寸Diameter: Φ22mm
 開關額定值Switch Rating: 5A/250VAC
 開關組合Contact Configuration: 1NO 1NC
 操作類型Operation Type: 自復型Momentary
 自鎖型Alternatethwith(Z)
 頭部形狀The Front Shape: 平面 Flat
 帶燈方式Lamp type: 環形帶燈Ring Illuminated(LED)
 外殼材料
 The Crust Material: 不銹鋼Stainless steel
 防護等級IP Degree: IP67, IK10



安裝尺寸Diameter: Φ22mm
 開關額定值Switch Rating: 5A/250VAC
 開關組合Contact Configuration: 1NO 1NC
 操作類型Operation Type: 自復型Momentary
 自鎖型Alternatethwith(Z)
 頭部形狀The Front Shape: 平面 Flat
 帶燈方式Lamp type: 單點帶燈Dot Illuminated(LED)
 外殼材料
 The Crust Material: 不銹鋼Stainless steel
 防護等級IP Degree: IP67, IK10



安裝尺寸Diameter: Φ22mm
 開關額定值Switch Rating: 5A/250VAC
 開關組合Contact Configuration: 1NO 1NC
 操作類型Operation Type: 自復型Momentary
 自鎖型Alternatethwith(Z)
 頭部形狀The Front Shape: 平面 Flat
 帶燈方式Lamp type: 環形帶燈Ring Illuminated(LED)
 外殼材料The Crust Material: 鍍金Gold-plated
 防護等級IP Degree: IP67, IK10



產品規格		Specification	MP022S/F11-Δ▲E	MP022S/F11-Δ▲D	MP022G/F11-Δ▲E
材料	尾部配置	Terminal Type	接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)	接線插片Pin Terminal(2.8×0.5mm)
	開關結構	Switching	NO.2	NO.2	NO.2
	開關規格	Max. Switch Rating	5A/250VAC	5A/250VAC	5A/250VAC
	接觸電阻	Contact Resistance	≤50mΩ	≤50mΩ	≤50mΩ
	絕緣電阻	Insulation Resistance	≥1000MΩ	≥1000MΩ	≥1000MΩ
	絕緣強度	Dielectric Intensity	2000VAC	2000VAC	2000VAC
	環境溫度	Operating Temp	-20℃~+55℃	-20℃~+55℃	-20℃~+55℃
	機械壽命	Mechanical Life	100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles	100萬次以上 1,000,000 cycles
	電氣壽命	Electrical Life	5萬次以上 50,000 cycles	5萬次以上 50,000 cycles	5萬次以上 50,000 cycles
	面板厚度	Panel Thickness	1-6mm	1-6mm	1-6mm
	螺母扭矩	Torque	5-14Nm	5-14Nm	5-14Nm
	操作壓力	Operation Pressure	約5.5N About 5.5N	約5.5N About 5.5N	約5.5N About 5.5N
	操作行程	Operation Travel	約2.5mm About 2.5mm	約2.5mm About 2.5mm	約2.5mm About 2.5mm
	防護等級	IP Degree	IP67, IK10	IP67, IK10	IP67, IK10
	觸點	Contact	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold	銀鍍金Silver Plated Gold
帶燈部分參數	LED	Material	不銹鋼Stainless steel	不銹鋼Stainless steel	鍍金Gold-plated
	帶燈類型	Button	不銹鋼Stainless steel	不銹鋼Stainless steel	鍍金Gold-plated
	額定電壓	Body	不銹鋼Stainless steel	不銹鋼Stainless steel	鍍金Gold-plated
	燈珠顏色	Base	PC	PC	PC
	燈珠壽命	RohS	可定制Made to order	可定制Made to order	可定制Made to order
Spec.	帶燈類型	Lamp type	環形帶燈Ring Illuminated(LED)	單點帶燈Dot Illuminated(LED)	環形帶燈Ring Illuminated(LED)
	額定電壓	Rated Voltage(Ue)	6V/12V/24V/110V/220V	6V/12V/24V/110V/220V	6V/12V/24V/110V/220V
Spec.	燈珠顏色	Color	R G Y O B W	R G Y O B W	R G Y O B W
	燈珠壽命	Life	40000小時	40000小時	40000小時