

Metal ButtonΦ22

AP22B Series Metal Button

GENERAL

1. Installation dimensions: Φ22mm.
2. Head shape: flat round, high round.
3. Wiring mode: pin terminal.
4. Operation: momentary, maintained, illuminated, emergency, selector switch, key-lock selector switch.
5. Contact: 1NO1NC/2NO2NC.
6. IP Degree: The button is IP65 by default; the emergency push button, selector and key-lock selector switch are IP40 by default; (the emergency push button can be customized to IP65)
7. The material of Keypad: stainless steel, aluminum alloy.
8. The material of shell: chrome plating of brass, stainless steel, aluminum alloy plating.
9. The material of base: PA66, PBT.

LAMP SPECIFICATIONS

Lamp type	Two-way LED lamp	
Rated voltage	AC/DC 3V	AC/DC 6V
	AC/DC 12V	AC/DC 24V
	AC/DC 36V	AC/DC 48V
	AC/DC 110V	AC/DC 220V
Lamp color	R ● G ● Y ● B ● W ○	
Life	≥40000h	

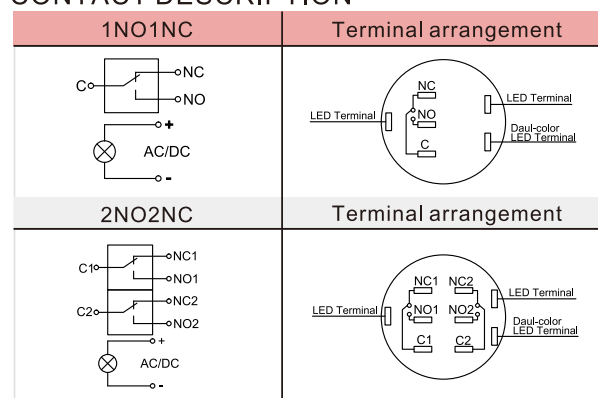
SWITCH RATING

Rated voltage(Ue)		12V	24V	110V	220V	
Rated current (Ie)	AC-15 50/60Hz	Resistive load	5A	5A	5A	3A
		Inductive load	5A	5A	3A	2A
	DC-13	Resistive load	1A	1A	0.2A	0.1A
		Inductive load	0.5A	0.5A	0.2A	0.1A

SPECIFICATION

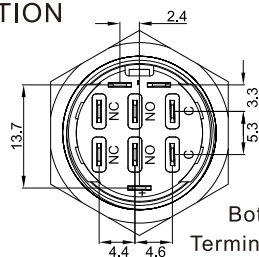
Operating temperature	-25°C~ +55°C (Ice free)
Operating humidity	45-85%RH
Contact resistance	≤50mΩ
Insulation resistance	≥1000MΩ
Dielectric strength	1500VAC/50Hz/60s
Vibration resistance	50Hz, Amplitude 1.2mm
Shock resistance	> 10g
Solder heat resistance	when 320°C (or 30W electric iron), no more than 3 seconds
Switch rating	250V/5A
Mechanical life	≥1,000,000times
Electrical life	≥100,000times

CONTACT DESCRIPTION

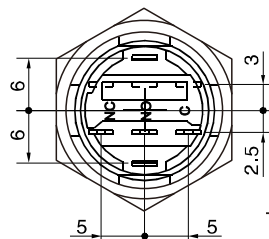


Note: the button can be customized with dual-color lamp, and the selector switch with lamp only has one color.

CONTACT DESCRIPTION



Bottom view of button
Terminal specification: 2.8×0.5



Bottom view of emergency, selector and key-lock selector switch
Terminal specification: 2.8×0.5

IMPLICATION OF TYPE

YJ-GQ22□	★	-⊖	▲/	☆	△	○
Code of series□:	Head shape:	Contact:	Operation:	Shell material:	Lamp voltage:	Color:
B : push button type No letters: emergency, selector switch, key-lock selector switch	F : flat round H : high round No letters: emergency, selector switch, key-lock selector switch	11: 1NO1NC 22: 2NO2NC	No letters : momentary Z: maintained E: momentary with ring lamp EZ: maintained with ring lamp EP: momentary with ring lamp and luminous power logo EZP: maintained with ring lamp and luminous power logo ZS: emergency X/21: two position selector switch X/31: three position selector switch XD/21: two position selector switch with lamp XD/31: three position selector switch with lamp Y/21: two position key-lock selector switch Y/31: three position key-lock selector switch	N: chrome plating of brass S: stainless steel A: aluminum alloy plating	3V 6V 12V 24V 36V 48V 110V 220V	● R ● G ● Y ● B ○ W


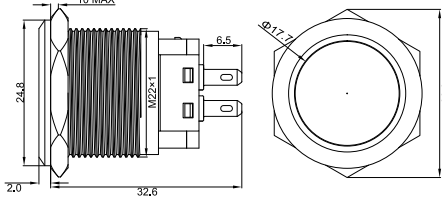

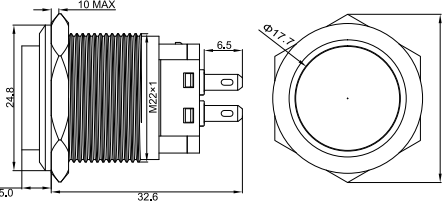

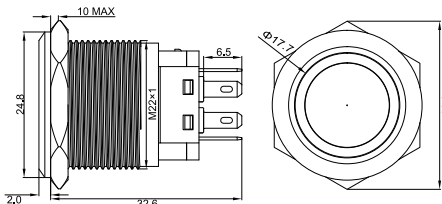

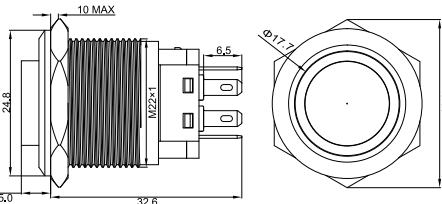

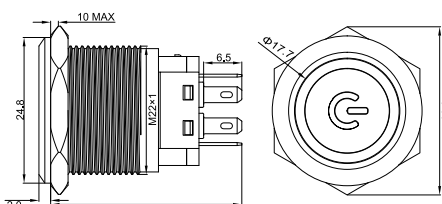
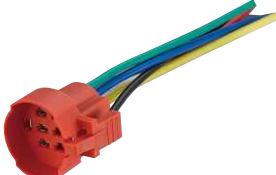
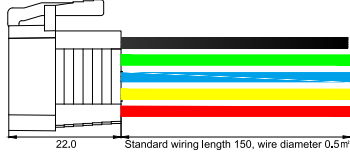
Note: the above table is only for model explanation, and some model combinations have no actual products. See the following figure for specific products.

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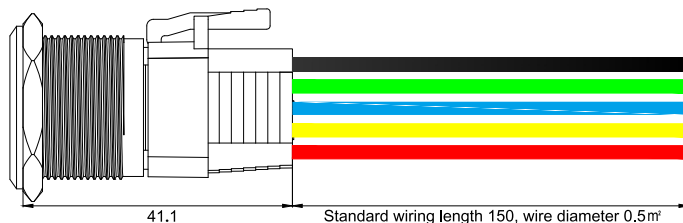
AP22B Series Metal Button

PRODUCT SELECTION

⊙ Contact 11:1NO1NC ; 22:2NO2NC
☆shell material N: Chrome plating of brass/ S: Stainless steel A: Aluminum alloy plating
△ LED voltage 1.8V, 3V, 6V, 12V, 24V 36V, 48V, 110V, 220V
○LED color **R** **G** **Y** **B** **W**

Picture	Operation	Model	Shape Dimensions
	Flat, momentary	AP22BF-⊙/☆	
	Flat, maintained	AP22BF-⊙Z/☆	
	High, momentary	AP22BH-⊙/☆	
	High, maintained	AP22BH-⊙Z/☆	
	Flat, momentary ring lamp	AP22BF-⊙E/☆△○	
	Flat, maintained ring lamp	AP22BF-⊙EZ/☆△○	
	High, momentary ring lamp	AP22BH-⊙E/☆△○	
	High, maintained ring lamp	AP22BH-⊙EZ/☆△○	
	Flat, momentary ring lamp with luminous power logo	AP22BF-⊙EP/☆△○	
	Flat, maintained ring lamp with luminous power logo	AP22BF-⊙EZP/☆△○	
	AP22B Socket	Matching no light and 1NO1NC button : 3 lines	 <p>Standard wiring length 150, wire diameter 0.5mm</p> <p>Note: the red and black lines are LED lines, the green line is the common terminal (C), the blue line is NO, and the yellow line is NC. You can consult the customized line length.</p>
		Matching no light and 2NO2NC button : 6 lines	
		Matching illuminated and 1NO1NC button : 5 lines	
		Matching illuminated and 2NO2NC button : 8 lines	

COMBINATION DIAGRAM OF BUTTON AND SOCKET



Metal ButtonΦ22


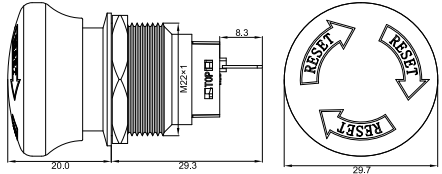

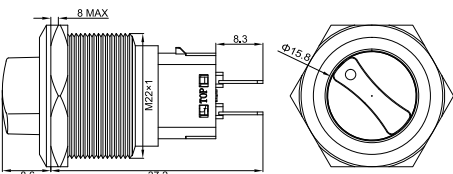

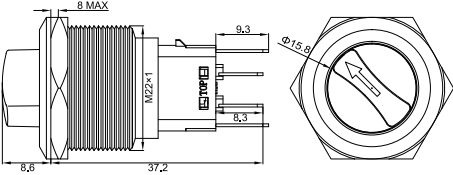

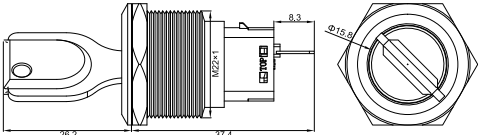
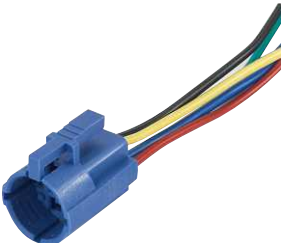
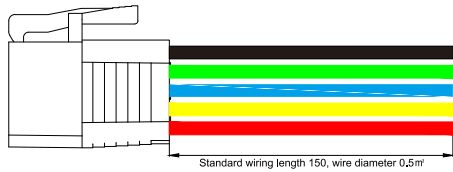
AP22B Series Metal Button

PRODUCT SELECTION

☆shell material N: Chrome plating of brass / S: Stainless steel / A: Aluminum alloy plating

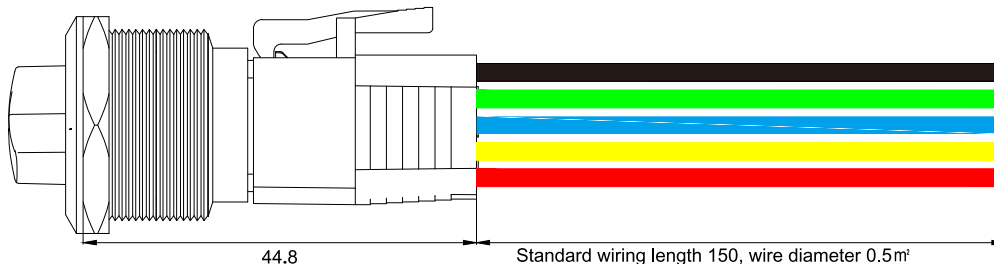
△ LED voltage 1.8V、3V、6V、12V、24V、36V、48V、110V、220V

○LED color **R G Y B W**

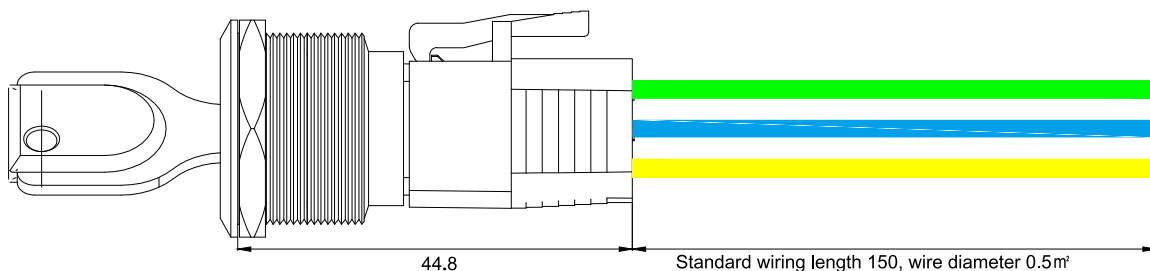
Picture	Operation	Model	Shape Dimensions
	Emergency	AP22-11ZS/☆	
		AP22-22ZS/☆	
	2 position selector switch	AP22-11X/21/☆	
	2 position selector switch	AP22-22X/21/☆	
	3 position selector switch	AP22-22X/31/☆	
	2 position illuminated selector switch	AP22-11XD/21/☆△○	
	2 position illuminated selector switch	AP22-22XD/21/☆△○	
	3 position illuminated selector switch	AP22-22XD/31/☆△○	
	2 position key-lock selector switch	AP22-11Y/21/☆	
	2 position key-lock selector switch	AP22-22Y/21/☆	
	3 position key-lock selector switch	AP22-22Y/31/☆	
	Special socket for selector and key-lock selector switch	Matching no light and 1NO1NC button : 3 lines	 <p>Standard wiring length 150, wire diameter 0.5mm</p>
		Matching no light and 2NO2NC button : 6 lines	
		Matching illuminated and 1NO1NC button : 5 lines	
		Matching illuminated and 2NO2NC button : 8 lines	

Note: the red and black lines are LED lines, the green line is the common terminal (C), the blue line is NO, and the yellow line is NC. You can consult the customized line length.





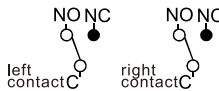
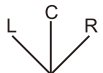
Combination diagram of selector switch and socket



Combination diagram of key-lock selector switch and socket



Working position and corresponding contact state of selector switch

POSITION (maintained , no momentary)	Contact	Contact state of each position		
		Left	Middle	Right
90° two position 	1NO1NC		/	
	2NO2NC		/	
45° three position 	2NO2NC	