

Metal ButtonΦ22

YJ-GQ22B 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.

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 |

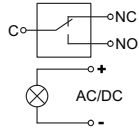
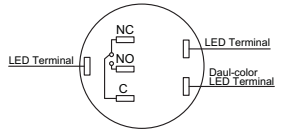
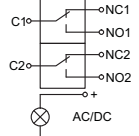
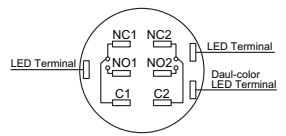
LAMP SPECIFICATIONS

| 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

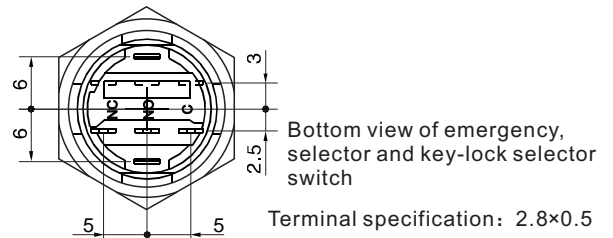
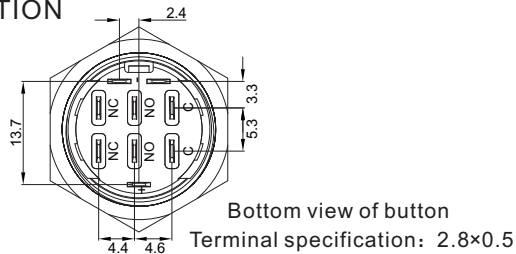
| Rated voltage(Ue) | | | 12V | 24V | 110V | 220V |
|--------------------|------------------|----------------|------|------|------|------|
| Rated current (Ie) | AC-15 50/60Hz | Resistive load | 5A | 5A | 5A | 3A |
| | | Inductive load | 5A | 5A | 3A | 2A |
| | DC-13 | Resistive load | 1A | 1A | 0.2A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

CONTACT DESCRIPTION

| 1NO1NC | Terminal arrangement |
|--|---|
|  |  |
| 2NO2NC | Terminal arrangement |
|  |  |

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

CONTACT DESCRIPTION



IMPLICATION OF TYPE






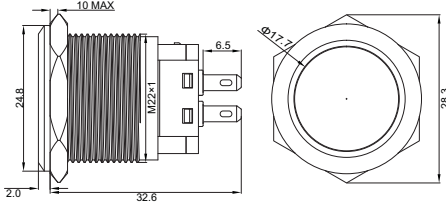

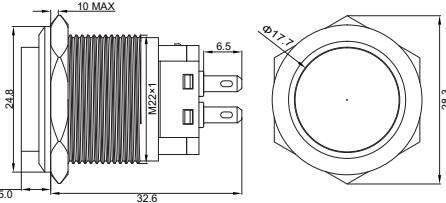

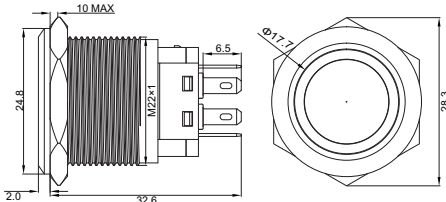

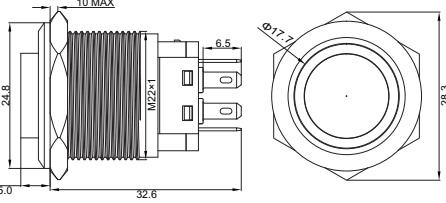

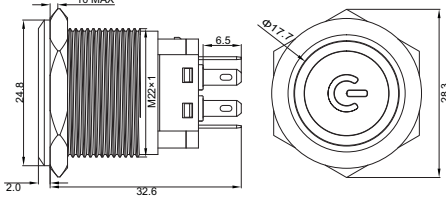
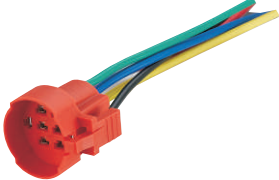
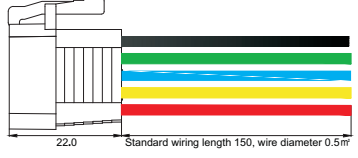
| YJ-GQ22□ | ★ | -⊖ | ▲/ | ☆ | △ | ○ |
|----------------------|--------------------|-------------|---|-------------------|---------------|--------|
| Code of series□: | Head shape: | Contact: | Operation: | Shell material: | Lamp voltage: | Color: |
| B : push button type | F : flat round | 11 : 1NO1NC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

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

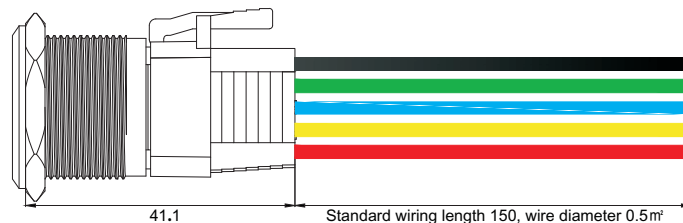
Metal Button $\Phi 22$

YJ-GQ22B 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 | YJ-GQ22BF- \odot / \star |  |
| | Flat, maintained | YJ-GQ22BF- \odot Z/ \star | |
|  | High, momentary | YJ-GQ22BH- \odot / \star |  |
| | High, maintained | YJ-GQ22BH- \odot Z/ \star | |
|  | Flat, momentary ring lamp | YJ-GQ22BF- \odot E/ \star \triangle \circ |  |
| | Flat, maintained ring lamp | YJ-GQ22BF- \odot EZ/ \star \triangle \circ | |
|  | High, momentary ring lamp | YJ-GQ22BH- \odot E/ \star \triangle \circ |  |
| | High, maintained ring lamp | YJ-GQ22BH- \odot EZ/ \star \triangle \circ | |
|  | Flat, momentary ring lamp with luminous power logo | YJ-GQ22BF- \odot EP/ \star \triangle \circ |  |
| | Flat, maintained ring lamp with luminous power logo | YJ-GQ22BF- \odot EZP/ \star \triangle \circ | |
|  | GQ22B Socket | 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 | |

COMBINATION DIAGRAM OF BUTTON AND SOCKET



Metal Button $\Phi 22$


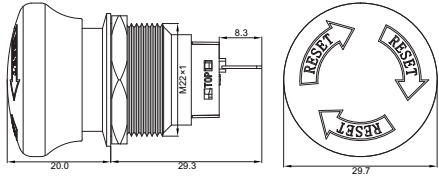

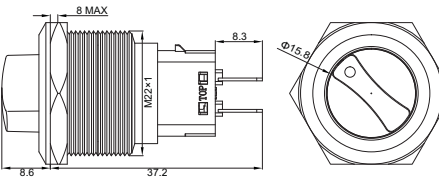

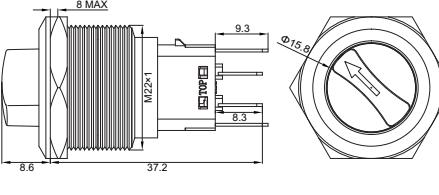

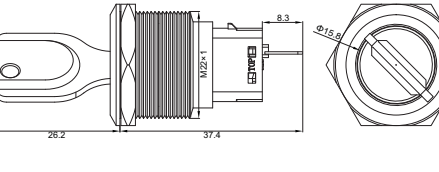
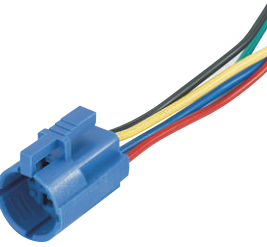
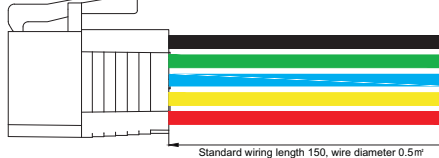
YJ-GQ22B Series Metal Button

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**

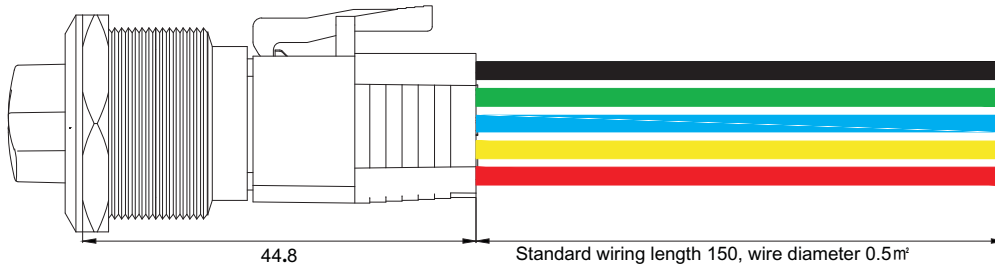
| Picture | Operation | Model | Shape Dimensions |
|---|--|--|--|
|  | Emergency | YJ-GQ22-11ZS/☆ |  |
| | | YJ-GQ22-22ZS/☆ | |
|  | 2 position selector switch | YJ-GQ22-11X/21/☆ |  |
| | 2 position selector switch | YJ-GQ22-22X/21/☆ | |
| | 3 position selector switch | YJ-GQ22-22X/31/☆ | |
|  | 2 position illuminated selector switch | YJ-GQ22-11XD/21/☆ △ ○ |  |
| | 2 position illuminated selector switch | YJ-GQ22-22XD/21/☆ △ ○ | |
| | 3 position illuminated selector switch | YJ-GQ22-22XD/31/☆ △ ○ | |
|  | 2 position key-lock selector switch | YJ-GQ22-11Y/21/☆ |  |
| | 2 position key-lock selector switch | YJ-GQ22-22Y/21/☆ | |
| | 3 position key-lock selector switch | YJ-GQ22-22Y/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.

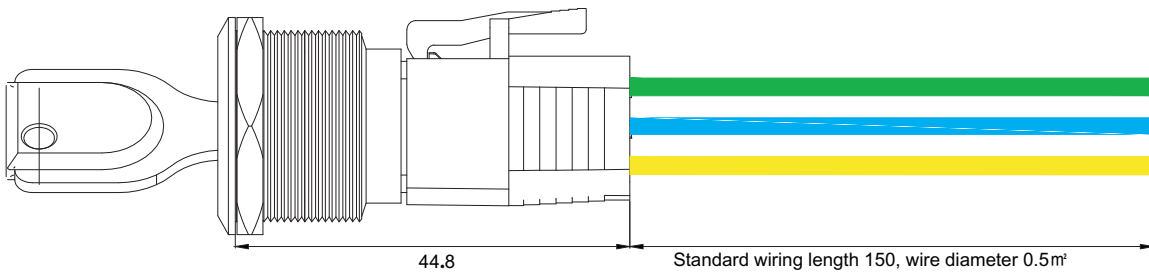
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

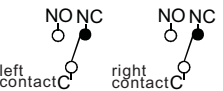
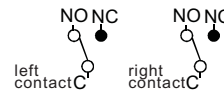

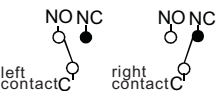
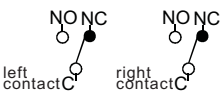
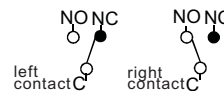
Combination diagram of selector switch and socket



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 |  |  |  |