

# Metal ButtonΦ16

## AP16A Series High Current Metal Button

### GENERAL

1. Installation dimensions: Φ16mm.
2. Head shape: flat round、high round.
3. Wiring mode: pin terminal.
4. Operation: momentary,maintained.
5. Contact: 1NO/1NC.
6. IP Degree: IP65
7. The material of Keypad: stainless steel.
8. The material of shell: chrome plating of brass、 stainless steel, aluminum alloy plating.
9. The material of base: 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<br>50/60Hz | Resistive load<br>10A | 10A | 10A  | 10A  |
|                    |                  | Inductive load<br>10A | 10A | 8A   | 6A   |
|                    | DC-13            | Resistive load<br>6A  | 6A  | 2A   | 1A   |
|                    |                  | Inductive load<br>5A  | 5A  | 1A   | 0.5A |

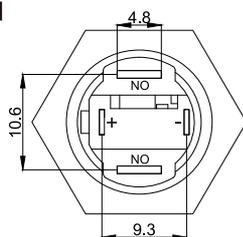
### SPECIFICATION

|                        |   |
|------------------------|---|
| 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/15A  |
| Mechanical life        | ≥1,000,000times   |
| Electrical life        | ≥100,000times   |
| Nut torque             | about 0.6Nm   |
| Operation stroke       | about 2mm   |
| Operating pressure     | about 5N  |

### CONTACT DESCRIPTION

| Type    | 1NO  | 1NC |
|---------|--|-----|
| Diagram |  |     |
| Sign    |  |     |
| Note    | Double break-points with two terminals slow contact switch |     |

### CONTACT DESCRIPTION



NO-NO terminal is switch pin,and the terminal size is 4.8×0.8  
+- terminal is led pin,and the terminal size is 2.8×0.5

### IMPLICATION OF TYPE

| YJ-GQ16A       | ★   | -⊖                            | ▲/   | ☆  | △   | ○  |
|----------------|---|-------------------------------|--|--|---|--|
| Code of series | Head shape:<br>F: flat round<br>H: high round | Contact:<br>10:1NO<br>01: 1NC | Operation:<br>No letters : momentary<br>Z:maintained<br>E:momentary with ring lamp<br>EZ:maintained with ring lamp<br>EP:momentary with ring lamp and luminous power logo<br>EZP:maintained with ring lamp and luminous power logo | Shell material:<br>N:chrome plating of brass<br>S: stainless steel<br>A:aluminum alloy plating | Lamp voltage:<br>3V<br>6V<br>12V<br>24V<br>36V<br>48V<br>110V<br>220V | Color :<br>R ●<br>G ●<br>Y ●<br>B ●<br>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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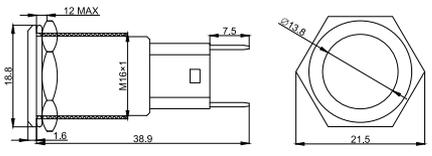
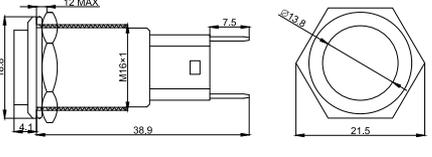
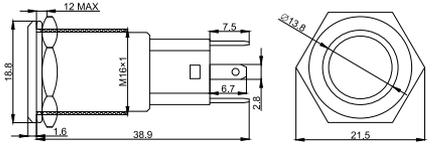
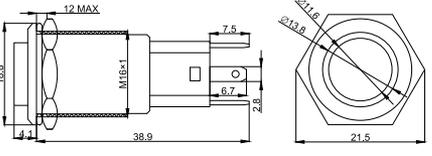
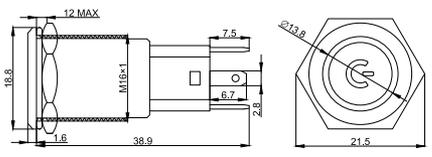
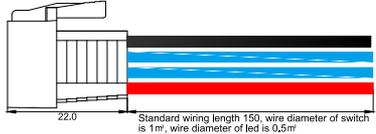
## AP16A Series High Current Metal Button

### 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  |
|---|--|------------------|---|
|    | Flat,momentary                                     | AP16AF-10/☆      |    |
|   | Flat,maintained                                    | AP16AF-10Z/☆     |   |
|    | High,momentary                                     | AP16AH-10/☆      |    |
|   | High,maintained                                    | AP16AH-10Z/☆     |   |
|   | Flat,momentary ring lamp                           | AP16AF-10E/☆△○   |   |
|   | Flat,maintained ring lamp                          | AP16AF-10EZ/☆△○  |   |
|  | High,momentary ring lamp                           | AP16AH-10E/☆△○   |    |
|   | High,maintained ring lamp                          | AP16AH-10EZ/☆△○  |   |
|  | Flat,momentary ring lamp with luminous power logo  | AP16AF-10EP/☆△○  |    |
|   | Flat,maintained ring lamp with luminous power logo | AP16AF-10EZP/☆△○ |   |
|  | Matching no light button:<br>2 lines               | GQ16A Socket     | <br>Standard wiring length 150, wire diameter of switch is 1m <sup>2</sup> , wire diameter of led is 0.5m <sup>2</sup><br>Note: the red and black lines are LED lines, 1NO contact with two blue wires;1NC contact with two yellow wires;You can consult the customized line length. |
|   | Matching illuminated button:<br>5 lines            |                  |   |

### COMBINATION DIAGRAM OF BUTTON AND SOCKET

