

## Implication of Type

| LAS1-A<br>LAS1-B |                           | GQ                                                                             | —                                                                                                                           | □□                                                                      | □                                                                                            | □                                                                                                                      | / | □ | / | □ |
|------------------|---------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|---|---|---|
| Code of Series   | GQ means metal crust type | Contact structure:<br><b>11</b> 1NO1NC<br><b>22</b> 2NO2NC<br><b>33</b> 3NO3NC | Code name of derivative products;<br><b>Z</b> alternate type<br><b>Y</b> key switch<br>The momentary type is without letter | Type:<br><b>D</b> dot<br><b>R</b> ring<br>No letter means without lamp. | The specific rating of the lamp with illuminated button is included in the lamp ratings form | Lamp color:<br><b>R</b> red<br><b>G</b> green<br><b>Y</b> yellow<br><b>O</b> orange<br><b>B</b> blue<br><b>W</b> white |   |   |   |   |

Note: ☉ Contact Structure: LAS1 - AGQ have 1NO1NC and 2NO2NC, LAS1 - BGQ have 1NO1NC, 2NO2NC and 3NO3NC.

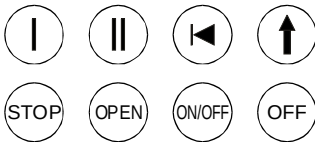
## Lamp Ratings

| Lamp Type     | LED                |          |                                     |
|---------------|--------------------|----------|-------------------------------------|
| Rated Voltage | AC/DC6V            | AC/DC12V | AC/DC24V                            |
|               | AC/DC110V          |          | AC/DC220V                           |
| Colours       | <b>R</b>           | <b>G</b> | <b>Y</b> <b>O</b> <b>B</b> <b>W</b> |
| Life          | About 40,000 hours |          |                                     |

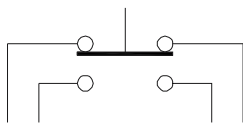
Note: There are protective resistor in the lamp, special voltage rate can be made to order.

## Engraving Options

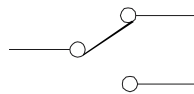
- ☉ Special type can be made to order.
- ☉ Examples



## Switching Operation



NO.2



NO.3

## Purchasing Notice

- ☉ Please write ONPOW code after check the Implication of Type and the detailed specification in the catalog..
- ☉ Please place an order over 1,000pcs if the products need to be made to order.
- ☉ All IP Degree listed in our forms can seal front of panel only.

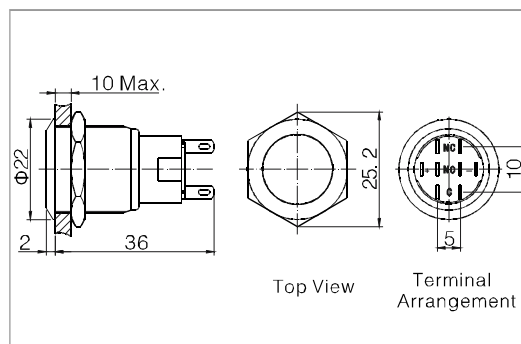
## Soldering information

- ☉ Handiwork solding: Soldering iron 30W or under at 230℃ for 3 sec max.

## PUSHBUTTONS



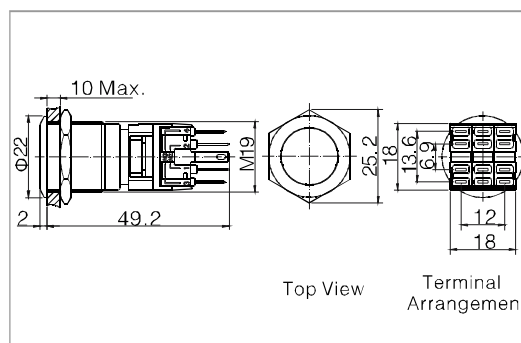
- ⊙  $\Phi 19\text{mm}$  diameter
- ⊙ 5A, 250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ IP Degree: IP67



## PUSHBUTTONS



- ⊙  $\Phi 19\text{mm}$  diameter
- ⊙ Combined Structure
- ⊙ 3A, 250VAC
- ⊙ 1NO1NC/2NO2NC/3NO3NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ IP Degree: IP67

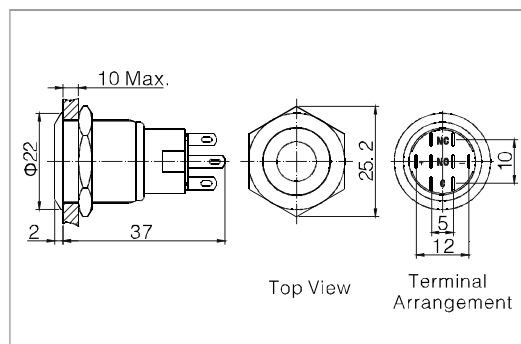


| Specification         |        | LAS1-AGQ                           | LAS1-BGQ                           |
|-----------------------|--------|------------------------------------|------------------------------------|
| The Front Shape       |        | Flat Round                         | Flat Round                         |
| Terminations          |        | Soldering(Pin Terminal)/2.8mm tabs | Soldering(Pin Terminal)/2.8mm tabs |
| Switching             |        | NO.3                               | NO.2                               |
| Max. Switch Rating    |        | 5A/250VAC                          | 5A/250VAC                          |
| Contact Resistance    |        | $\leq 50\text{m}\Omega$            | $\leq 50\text{m}\Omega$            |
| Insulation Resistance |        | $\geq 1000\text{M}\Omega$          | $\geq 1000\text{M}\Omega$          |
| Dielectric Strength   |        | 2000VAC                            | 2000VAC                            |
| Operating Temp.       |        | - 20°C ~ + 70°C                    | - 20°C ~ + 70°C                    |
| Mechanical life       |        | 1,000,000 cycles                   | 1,000,000 cycles                   |
| Electrical life       |        | 50,000 cycles                      | 50,000 cycles                      |
| Contact material      |        | Silver Alloy                       | Silver Alloy                       |
| Panel Thickness       |        | 1 ~ 10mm                           | 1 ~ 10mm                           |
| Torque                |        | 5 ~ 14Nm                           | 5 ~ 14Nm                           |
| Operation Pressure    |        | 5.5N                               | 5.5N                               |
| IP Degree             |        | IP67                               | IP67                               |
| Material              | Button | Stainless Steel                    | Stainless Steel                    |
|                       | Body   | Stainless Steel                    | Stainless Steel                    |
|                       | Base   | PBT                                | PA                                 |
| RoHS                  |        | Made to order                      | Made to order                      |

## DOT ILLUMINATED PUSHBUTTON



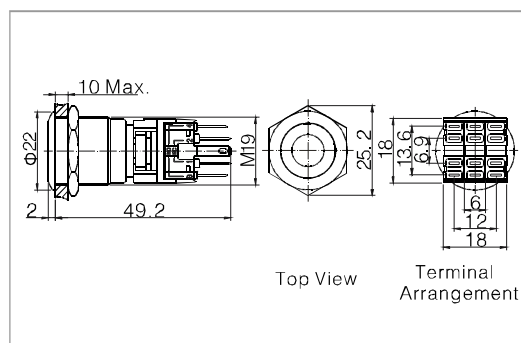
- ⊙ Φ19mm diameter
- ⊙ 5A, 250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ Dot Illuminated
- ⊙ IP Degree: IP67



## DOT ILLUMINATED PUSHBUTTON



- ⊙ Φ19mm diameter
- ⊙ Combined Structure
- ⊙ 5A, 250VAC
- ⊙ 1NO1NC/2NO2NC/3NO3NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ Dot Illuminated
- ⊙ IP Degree: IP67



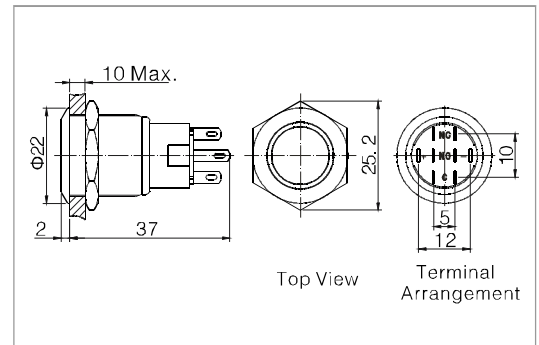
| Specification         |               | LAS1-AGQ-□□□D                                                                                                                                                                                                                               | LAS1-BGQ-□□□D                                                                                                                                                                                                                               |
|-----------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Front Shape       |               | Flat Round                                                                                                                                                                                                                                  | Flat Round                                                                                                                                                                                                                                  |
| Terminations          |               | Soldering(Pin Terminal)/2.8mm tabs                                                                                                                                                                                                          | Soldering(Pin Terminal)/2.8mm tabs                                                                                                                                                                                                          |
| Switching             |               | NO.3                                                                                                                                                                                                                                        | NO.2                                                                                                                                                                                                                                        |
| Max. Switch Rating    |               | 5A/250VAC                                                                                                                                                                                                                                   | 5A/250VAC                                                                                                                                                                                                                                   |
| Contact Resistance    |               | ≤50mΩ                                                                                                                                                                                                                                       | ≤50mΩ                                                                                                                                                                                                                                       |
| Insulation Resistance |               | ≥1000MΩ                                                                                                                                                                                                                                     | ≥1000MΩ                                                                                                                                                                                                                                     |
| Dielectric Strength   |               | 2000VAC                                                                                                                                                                                                                                     | 2000VAC                                                                                                                                                                                                                                     |
| Operating Temp.       |               | - 20℃ ~ + 70℃                                                                                                                                                                                                                               | - 20℃ ~ + 70℃                                                                                                                                                                                                                               |
| Mechanical life       |               | 1,000,000 cycles                                                                                                                                                                                                                            | 1,000,000 cycles                                                                                                                                                                                                                            |
| Electrical life       |               | 50,000 cycles                                                                                                                                                                                                                               | 50,000 cycles                                                                                                                                                                                                                               |
| Contact material      |               | Silver Alloy                                                                                                                                                                                                                                | Silver Alloy                                                                                                                                                                                                                                |
| Panel Thickness       |               | 1 ~ 10mm                                                                                                                                                                                                                                    | 1 ~ 10mm                                                                                                                                                                                                                                    |
| Torque                |               | 5 ~ 14Nm                                                                                                                                                                                                                                    | 5 ~ 14Nm                                                                                                                                                                                                                                    |
| Operation Pressure    |               | 5.5N                                                                                                                                                                                                                                        | 5.5N                                                                                                                                                                                                                                        |
| IP Degree             |               | IP67                                                                                                                                                                                                                                        | IP67                                                                                                                                                                                                                                        |
| Material              | Button        | Stainless Steel                                                                                                                                                                                                                             | Stainless Steel                                                                                                                                                                                                                             |
|                       | Body          | Stainless Steel                                                                                                                                                                                                                             | Stainless Steel                                                                                                                                                                                                                             |
|                       | Base          | PBT                                                                                                                                                                                                                                         | PA                                                                                                                                                                                                                                          |
| LED Spec:             | RoHS          | Made to order                                                                                                                                                                                                                               | Made to order                                                                                                                                                                                                                               |
|                       | Type          | Dot Illuminated(LED)                                                                                                                                                                                                                        | Dot Illuminated(LED)                                                                                                                                                                                                                        |
|                       | Rated Voltage | 6V / 12V / 24V / 110V / 220V                                                                                                                                                                                                                | 6V / 12V / 24V / 110V / 220V                                                                                                                                                                                                                |
|                       | Color         | <span style="color:red">R</span> <span style="color:green">G</span> <span style="color:yellow">Y</span> <span style="color:orange">O</span> <span style="color:blue">B</span> <span style="border:1px solid black; padding:0 2px;">W</span> | <span style="color:red">R</span> <span style="color:green">G</span> <span style="color:yellow">Y</span> <span style="color:orange">O</span> <span style="color:blue">B</span> <span style="border:1px solid black; padding:0 2px;">W</span> |
| Life                  |               | 40,000 hours                                                                                                                                                                                                                                | 40,000 hours                                                                                                                                                                                                                                |

## METAL PUSHBUTTONS

### RING ILLUMINATED PUSHBUTTON



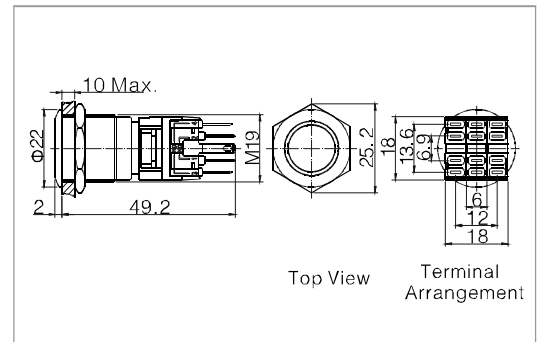
- ⊙  $\Phi$  19mm diameter
- ⊙ 5A, 250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ Ring Illuminated
- ⊙ IP Degree: IP67



### RING ILLUMINATED PUSHBUTTON



- ⊙  $\Phi$  19mm diameter
- ⊙ Combined Structure
- ⊙ 5A, 250VAC
- ⊙ 1NO1NC/2NO2NC/3NO3NC
- ⊙ The Front Shape: Flat Round
- ⊙ The crust material: Stainless Steel
- ⊙ Ring Illuminated
- ⊙ IP Degree: IP67



| Specification         |               | LAS1-AGQ-□□□R                                                                                                                                                                                                                               | LAS1-BGQ-□□□R                                                                                                                                                                                                                               |
|-----------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Front Shape       |               | Flat Round                                                                                                                                                                                                                                  | Flat Round                                                                                                                                                                                                                                  |
| Terminations          |               | Soldering(Pin Terminal)/2.8mm tabs                                                                                                                                                                                                          | Soldering(Pin Terminal)/2.8mm tabs                                                                                                                                                                                                          |
| Switching             |               | NO.3                                                                                                                                                                                                                                        | NO.2                                                                                                                                                                                                                                        |
| Max. Switch Rating    |               | 5A/250VAC                                                                                                                                                                                                                                   | 5A/250VAC                                                                                                                                                                                                                                   |
| Contact Resistance    |               | $\leq 50m\Omega$                                                                                                                                                                                                                            | $\leq 50m\Omega$                                                                                                                                                                                                                            |
| Insulation Resistance |               | $\geq 1000M\Omega$                                                                                                                                                                                                                          | $\geq 1000M\Omega$                                                                                                                                                                                                                          |
| Dielectric Strength   |               | 2000VAC                                                                                                                                                                                                                                     | 2000VAC                                                                                                                                                                                                                                     |
| Operating Temp.       |               | - 20°C ~ + 70°C                                                                                                                                                                                                                             | - 20°C ~ + 70°C                                                                                                                                                                                                                             |
| Mechanical life       |               | 1,000,000 cycles                                                                                                                                                                                                                            | 1,000,000 cycles                                                                                                                                                                                                                            |
| Electrical life       |               | 50,000 cycles                                                                                                                                                                                                                               | 50,000 cycles                                                                                                                                                                                                                               |
| Contact material      |               | Silver Alloy                                                                                                                                                                                                                                | Silver Alloy                                                                                                                                                                                                                                |
| Panel Thickness       |               | 1 ~ 10mm                                                                                                                                                                                                                                    | 1 ~ 10mm                                                                                                                                                                                                                                    |
| Torque                |               | 5 ~ 14Nm                                                                                                                                                                                                                                    | 5 ~ 14Nm                                                                                                                                                                                                                                    |
| Operation Pressure    |               | 5.5N                                                                                                                                                                                                                                        | 5.5N                                                                                                                                                                                                                                        |
| IP Degree             |               | IP67                                                                                                                                                                                                                                        | IP67                                                                                                                                                                                                                                        |
| Material              | Button        | Stainless Steel                                                                                                                                                                                                                             | Stainless Steel                                                                                                                                                                                                                             |
|                       | Body          | Stainless Steel                                                                                                                                                                                                                             | Stainless Steel                                                                                                                                                                                                                             |
|                       | Base          | PBT                                                                                                                                                                                                                                         | PA                                                                                                                                                                                                                                          |
| LED Spec:             | RoHS          | Made to order                                                                                                                                                                                                                               | Made to order                                                                                                                                                                                                                               |
|                       | Type          | Ring Illuminated(LED)                                                                                                                                                                                                                       | Ring Illuminated(LED)                                                                                                                                                                                                                       |
|                       | Rated Voltage | 6V / 12V / 24V / 110V / 220V                                                                                                                                                                                                                | 6V / 12V / 24V / 110V / 220V                                                                                                                                                                                                                |
|                       | Color         | <span style="color:red">R</span> <span style="color:green">G</span> <span style="color:yellow">Y</span> <span style="color:orange">O</span> <span style="color:blue">B</span> <span style="border:1px solid black; padding:0 2px;">W</span> | <span style="color:red">R</span> <span style="color:green">G</span> <span style="color:yellow">Y</span> <span style="color:orange">O</span> <span style="color:blue">B</span> <span style="border:1px solid black; padding:0 2px;">W</span> |
|                       | Life          | 40,000 hours                                                                                                                                                                                                                                | 40,000 hours                                                                                                                                                                                                                                |