

## GQ★-L series

- ☆ Mounting hole diameter is  $\Phi 22\text{mm}$ ,  $\Phi 25\text{mm}$ ,  $\Phi 30\text{mm}$ ;
- ☆ The switch is "fast action | SPDT";
- ☆ The rated value of this series of switches is up to 220VAC/5A, with stable performance and durability, which is the best choice for high-current users;
- ☆ The waterproof grade of the product is IP65/IP67.



### GQ★-L series model description

GQ★-L-□■◇/J/△/▲/◎

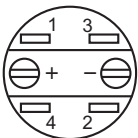
Symbol	Symbol name	Specify
★	Mounting hole diameter	22: $\Phi 22\text{mm}$ / 25: $\Phi 25\text{mm}$ / 30: $\Phi 30\text{mm}$
□	Contact Structure	11: 1NO1NC / No digital means indicator
■	Operation type	Z: Latching / M: Mushroom button / No letter means momentary
◇	Illuminated Type	E: ○ Ring illuminated / ET: ☺ Ring+power symbol illuminated / No letters mean no lights
◆	Wiring type	J: Terminal lug / No letter represents terminal post
△	Color	R: Red / G: Green / Y: Yellow / B: Blue / W: White
▲	Voltage	6V / 12V / 24V / 110V / 220V other voltage levels can be customized.
◎	Housing Material	S: Stainless steel

Note: Please read the catalog carefully, and choose the right part-number according to the sign.

### Performance Characteristic

Operating Temp	-25°C~+55°C (Non freezing)
	Keep the switch air circulating well
Operating Humidity	45~85% RH(Non condensing)
Contact Resistance	$\leq 50\text{m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$ (500VDC)
Max. withstanding voltage	1500VAC, 50Hz, 1min
Vibration resistance	50Hz, The amplitude is about 1.2mm
Solder heat resistance	320°C 3s
Switch rating	2A/220VAC
Mechanical Life	1,000,000 cycles
Electrical Life	50,000 cycles
Base material	PA/PC
Nut torque	About 0.8Nm
Torque	About 4N(IP65)
	About 5N(IP67)
Operation Travel	About 2.5mm
Protection class	IP65(momentary IP67 can be customized),IK09

### Pin Description



1. 2 is normally closed contact NC;  
3. 4 is normally open contact NO;  
The + and - pin is the lamp bead pin, and the conventional lamp bead configuration has no difference between positive and negative poles; The lamp bead is relatively independent of the switch, and the lamp bead status can be controlled by the switch or peripheral circuit.

### Standards and certification

Corresponding standard	Certification mark	Certification authority / certification number
GB/T 14048.5-2017		20201201000018
EN61058-1:2018		UDEM/M.2021.206.C62197

### Switch Rating

Rated Insulation Voltage $U_i$		250V				
Thermal Current $I_{th}$		5A				
Rated voltage		12V	24V	110V	220V	
Rated Operation Current	AC 50/60Hz	Resistive load	—	—	5A	3A
		Inductive load	—	—	3A	2A
	DC	Resistive load	5A	5A	1A	0.5A
		Inductive load	2A	2A	0.2A	0.1A
Contact material		Silver Alloy				

Minimum load: 3V AC/DC, 5mA (Reference)

Application scope depends on operating environment and load type.

### Switch structure description

Type	Diagram	Symbol
Za		

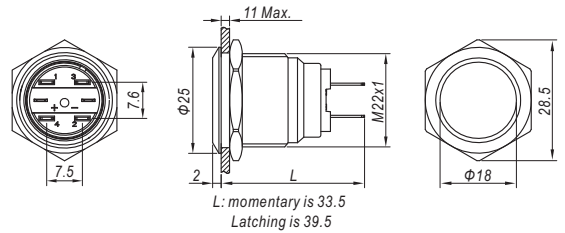
### LED Specifications

LED life	Current	Allowable voltage fluctuation range	Circuit diagram
$\geq 40000$ hours	$\leq 24\text{V}$ about 15mA $\geq 110\text{V}$ about 2mA	DC: 10% AC: 20%	
			The product has built-in protective resistance, and the lamp bead wiring has no distinction between positive and negative poles.



GQ22-L-11 I/S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-22F / Protection cover T21-22 / Solder socket S21 / PCB socket S22

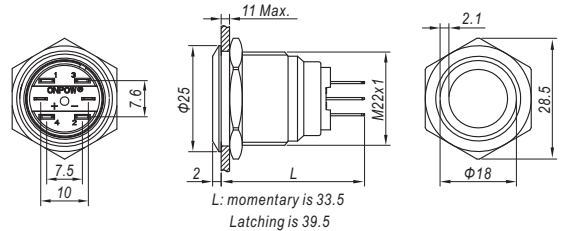


L: momentary is 33.5  
Latching is 39.5



GQ22-L-11 E/J/Δ/▲/S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-22F / Protection cover T21-22 / Solder socket S21 / PCB socket S22

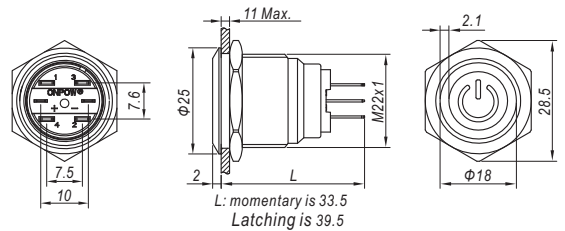


L: momentary is 33.5  
Latching is 39.5



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Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
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 Voltage ▲ 6V/12V/24V/110V/220V  
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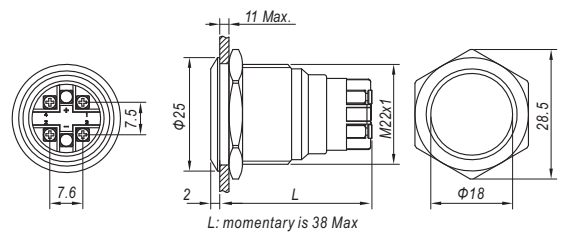


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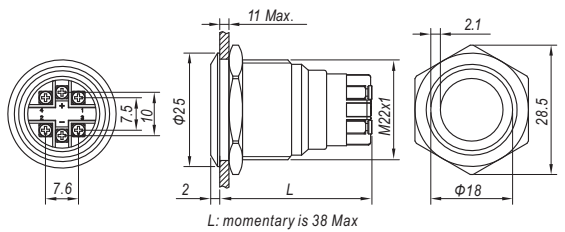


L: momentary is 38 Max  
Latching is 44.5 Max



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 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
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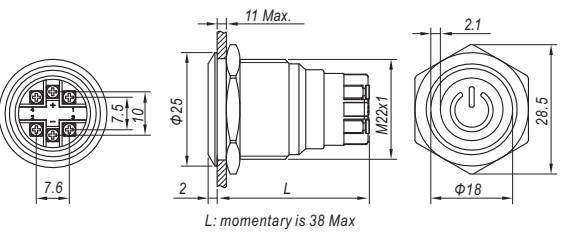


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Latching is 44.5 Max



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 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-22F / Protection cover T21-22



L: momentary is 38 Max  
Latching is 44.5 Max



Sealing cover M12-22F



Protection cover T21-22



Solder socket S21



PCB socket S22

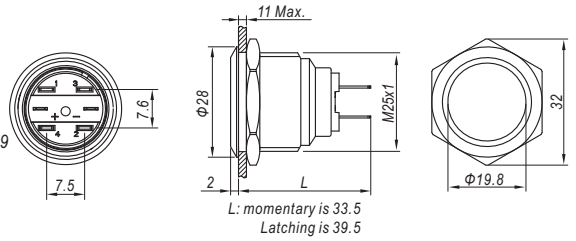


Panel plug M03



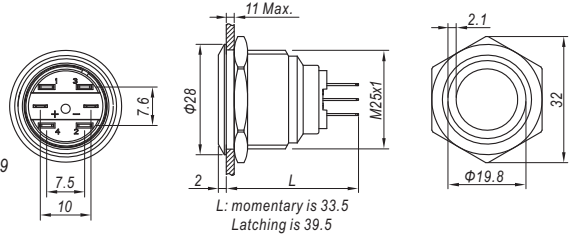
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Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F / Solder socket S21 / PCB socket S22



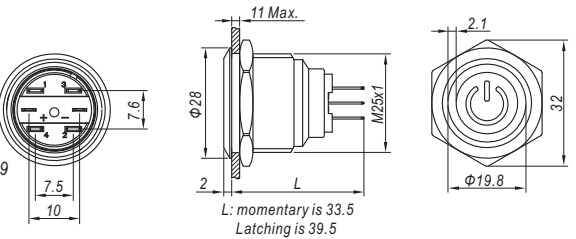
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Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F / Solder socket S21 / PCB socket S22



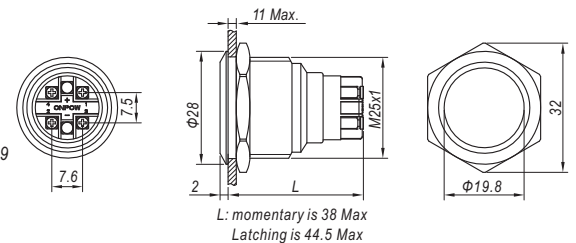
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Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F / Solder socket S21 / PCB socket S22



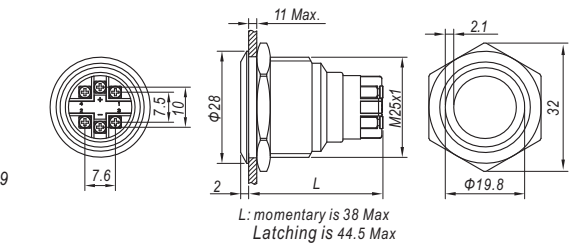
GQ25-L-11 S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F



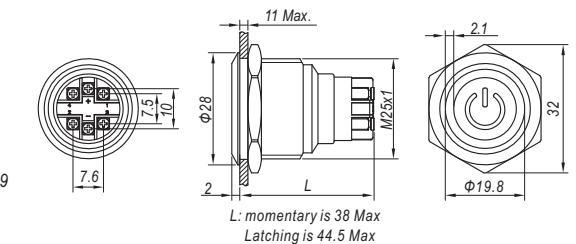
GQ25-L-11 E/Δ/▲/S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F



GQ25-L-11 E/Δ/▲/S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09  
 Applicable accessories Sealing cover M12-25F



Sealing cover M12-25F



Solder socket S21



PCB socket S22



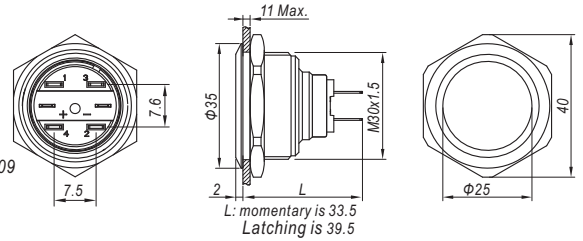
Panel plug M04





GQ30-L-11 ■ / J / S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09

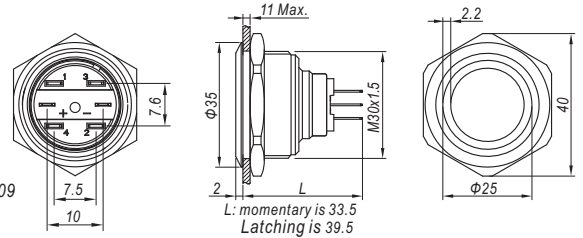


L: momentary is 33.5  
 Latching is 39.5



GQ30-L-11 ■ E / J / Δ / ▲ / S

Contact Structure 11: 1NO1NC  
 Operation type ■ Z: Latching / No letter means momentary  
 Color Δ R G Y B W  
 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
 Protection class IP65(momentary IP67can be customized),IK09

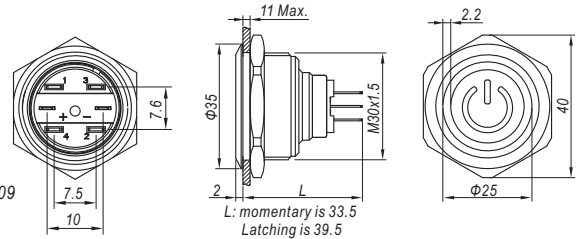


L: momentary is 33.5  
 Latching is 39.5



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 Operation type ■ Z: Latching / No letter means momentary  
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 Voltage ▲ 6V/12V/24V/110V/220V  
 Housing Material S: Stainless steel  
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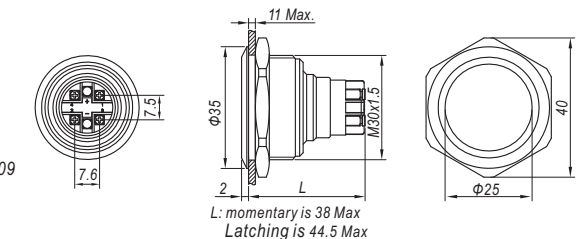


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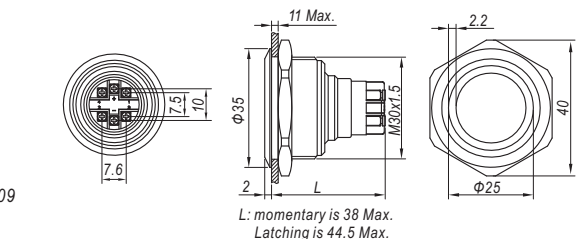


L: momentary is 38 Max  
 Latching is 44.5 Max



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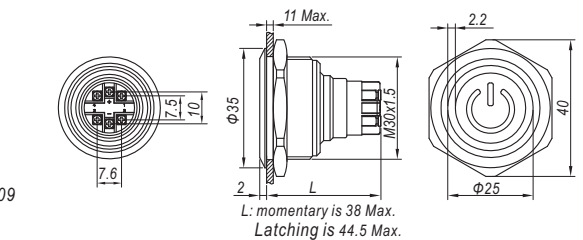


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