

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/△/▲/◎

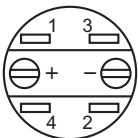
Symbol	Symbol name	Specify
★	Mounting hole diameter	22: 22mm / 25: 25mm / 30: 30mm
	Contact Structure	11 :1NO1NC / No digital means indicator
	Operation type	Z: Latching / M: Mushroom button / No letter means momentary
◇	Illuminated Type	E : ○ Ring illuminated / ET ☺ Ring+power symbol illuminated / No 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 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		

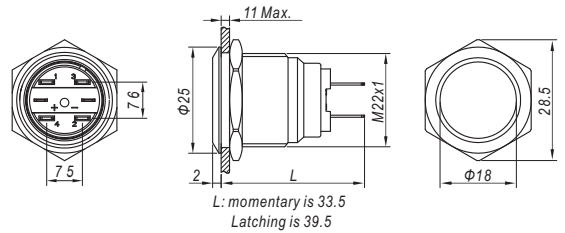
LED Specifications

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



GQ22-L-11 J/S

Contact Structure 11: 1N01NC
 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

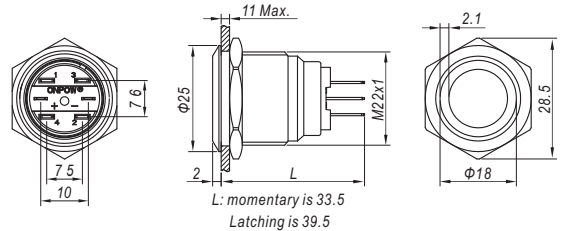


L: momentary is 33.5
 Latching is 39.5



GQ22-L-11 E/J/Δ/▲/S

Contact Structure 11: 1N01NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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

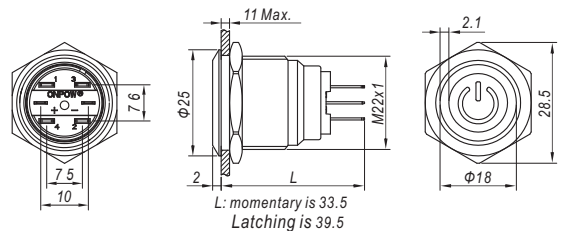


L: momentary is 33.5
 Latching is 39.5



GQ22-L-11 ET/JI/Δ/▲/S

Contact Structure 11: 1N01NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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

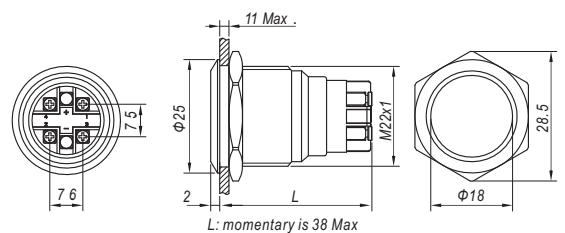


L: momentary is 33.5
 Latching is 39.5



GQ22-L-11 S

Contact Structure 11: 1N01NC
 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

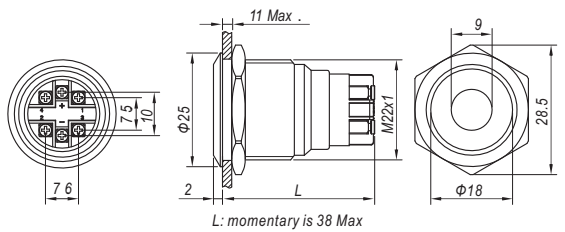


L: momentary is 38 Max
 Latching is 44.5 Max



GQ22-L-11 D/Δ/▲/S

Contact Structure 11: 1N01NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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

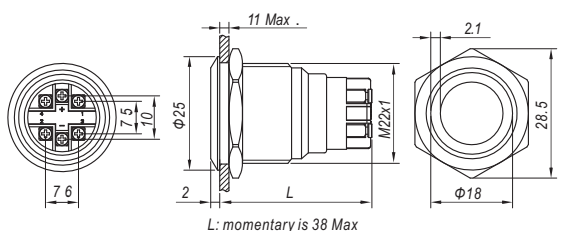


L: momentary is 38 Max
 Latching is 44.5 Max

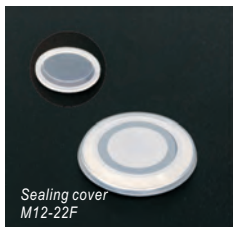


GQ22-L-11 E/Δ/▲/S

Contact Structure 11: 1N01NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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



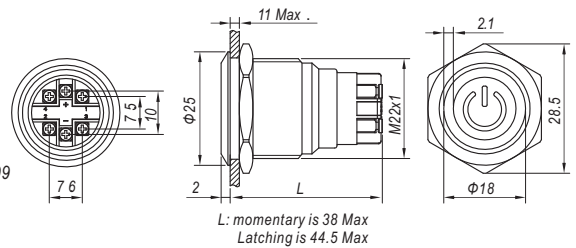
PCB socket
 S22



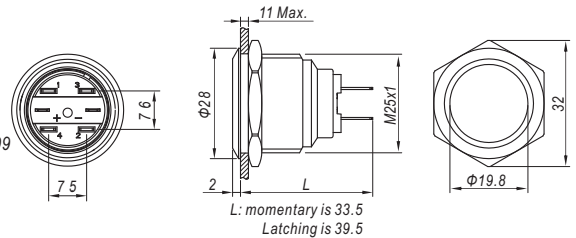
Panel plug
 M03



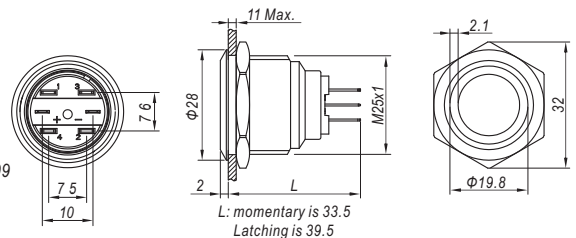
Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09
 Applicable accessories Sealing cover M12-22F / Protection cover T21-22



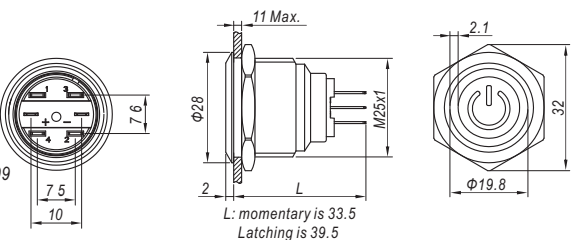
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 Operation type ■ Z: Latching / No letter means momentary
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09
 Applicable accessories Sealing cover M12-25F / Solder socket S21 / PCB socket S22



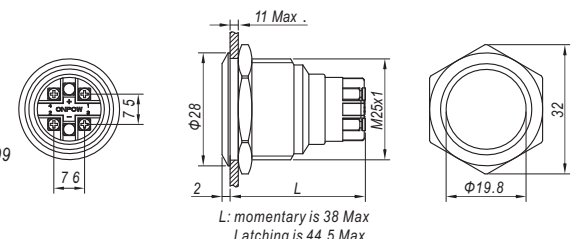
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 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09
 Applicable accessories Sealing cover M12-25F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



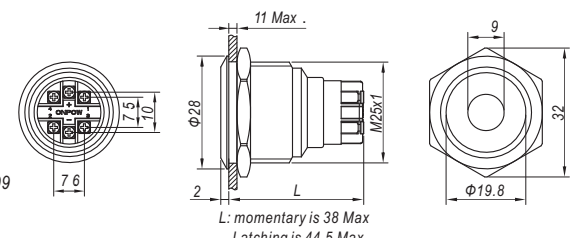
Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09
 Applicable accessories Sealing cover M12-25F / Solder socket S21 / PCB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



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



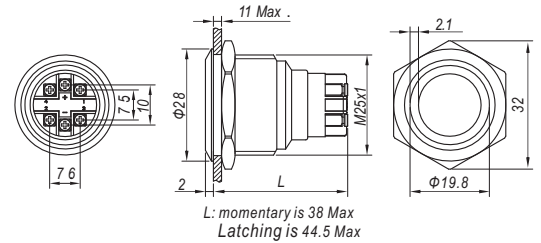
Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09
 Applicable accessories Sealing cover M12-25F





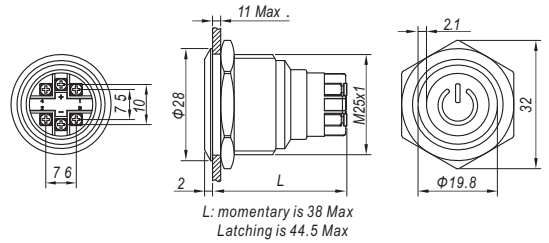
GQ25-L-11 ■ E/△/▲/S

Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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



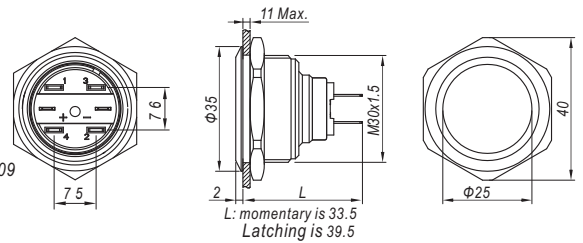
GQ25-L-11 ■ ET/△/▲/S

Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color 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



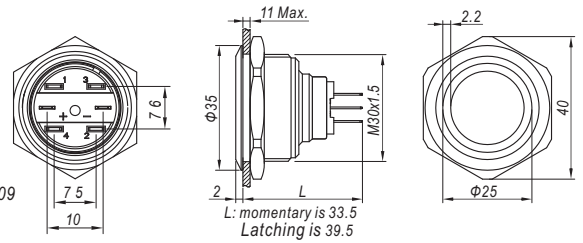
GQ30-L-11 ■ /J/S

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



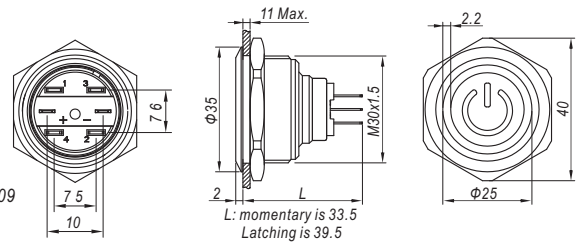
GQ30-L-11 ■ E/J/△/▲/S

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



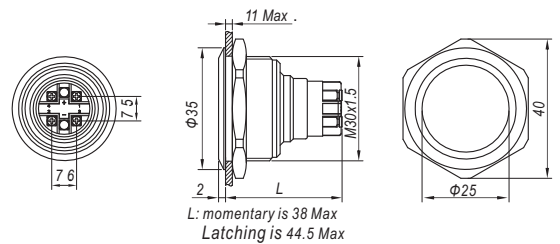
GQ30-L-11 ■ ET/J/△/▲/S

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



GQ30-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



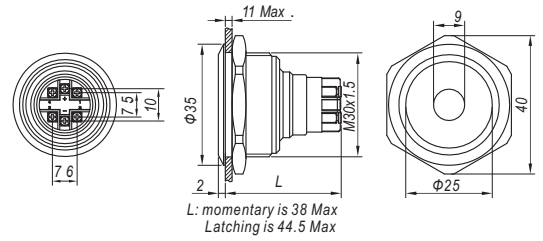
Sealing cover
M12-25F

Panel plug
M04



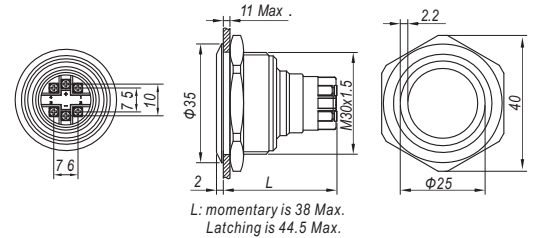
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Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
 Protection class IP65(momentary IP67can be customized),IK09



GQ30-L-11 ■ E/▲/▲/S

Contact Structure 11: 1NO1NC
 Operation type ■ Z: Latching / No letter means momentary
 Color R G Y B W
 Voltage 6V/12V/24V/110V/220V
 Housing Material S: Stainless steel
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GQ30-L-11 ■ ET/▲/▲/S

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