

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℃~+55℃ (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

Standards and certification

Corresponding standard	Certification mark	Certification authority / certification number
GB/T 14048.5-2017		
EN61058-1:2018		

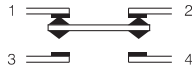
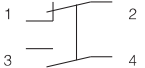
Switch Rating

Rated Insulation Voltage Ui		250V			
Thermal Current Ith		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			

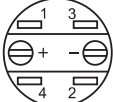
Minimum load: 3V AC/DC, 5mA (Reference)

Application scope depends on operating environment and load type.

Switch structure description

Type	Diagram	Symbol
Za		

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.
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LED Specifications

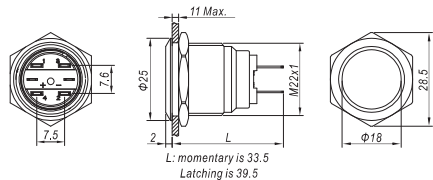
LED life	Current	Allowable voltage fluctuation range	Circuit diagram
≥ 40000 hours	$\leq 24\text{V}$ about 15mA $\geq 110\text{V}$ about 2mA	DC: $\pm 10\%$ AC: $\pm 20\%$	 The product has built-in protective resistance, and the lamp bead wiring has no distinction between positive and negative poles.

PART NUMBERS ON THIS DRAWING

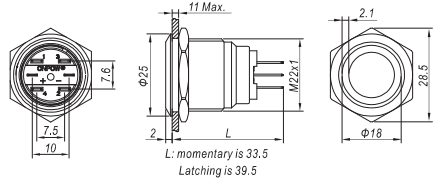
MR-GQ22-L-11 MR-GQ22-L-11-J MR-GQ22-L-11D MR-GQ22-L-11E MR-GQ22-L-11E-J MR-GQ22-L-11ET-J

22 MM HIGH-CURRENT METAL PUSH BUTTON		Micro-Ray	
MR-GQ22-L SERIES			
PART NO	MR-GQ22-L		
DWG NO	MR-GQ22-L	SHEET 1 OF 2	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

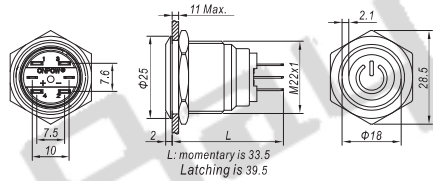
Contact Structure 11: 1NO1NC
Operation type ■ Z: Latching / No letter means momentary
Housing Material S: Stainless steel
Protection class IP65(momentary IP67can be customized),IK09
Applicable accessories Sealing cover M12-22F /
Protection cover T21-22 /
Solder socket S21 / PCB socket S22



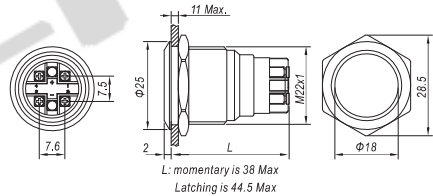
Contact Structure 11: 1NO1NC
Operation type ■ Z: Latching / No letter means momentary
Color △ R G Y B W
Voltage ▲ 6V/12V/24V/110V/220V
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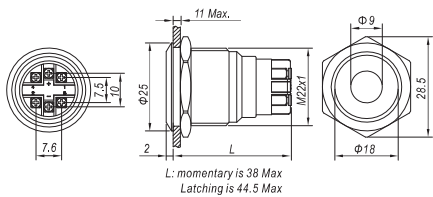
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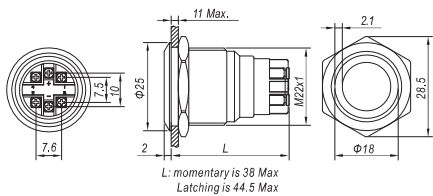
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22 MM HIGH-CURRENT METAL PUSH BUTTON

MR-GQ22-L SERIES

Micro-Ray

PART NO MR-GQ22-L

DWG NO MR-GQ22-L

UNITS: mm SCALE: NTS - DO NOT SCALE

SHEET 2 OF 2

REV A

SIZE A4

DATE 2026-09-22