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General Specifications

Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28V AC/DC maximum

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance: 80 milliohms maximum

Insulation Resistance: 500 megohms minimum @ 500V DC **Dielectric Strength:** 500V AC minimum for 1 minute minimum

Mechanical Life: 50,000 operations minimum **Electrical Life:** 50,000 operations minimum

Nominal Operating Force: 1.0N Angle of Throw: 28°

Materials & Finishes

Polycarbonate resin (UL94V-0) **Actuator:**

Glass fiber reinforced polyamide (UL94V-0) Case:

Nitrile butadiene rubber Sealing Ring:

Glass fiber reinforced polyamide Base: Phosphor bronze with gold plating **Movable Contact: Stationary Contact:** Phosphor bronze with gold plating Terminals: Phosphor bronze with gold plating

Environmental Data

-25°C through +55°C (-13°F through +131°F) **Operating Temperature Range:**

90 ~ 95% humidity for 240 hours @ 40°C (104°F) **Humidity:**

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in

5 minutes; 3 right angled directions for 2 hours

50G (490m/s²) acceleration (tested in 3 right angled directions, with 5 shocks in each direction)

PCB Processing

Wave Soldering recommended. See Profile A in Supplement section. Soldering:

Manual Soldering: See Profile A in Supplement section.

These devices are not process sealed. Hand clean locally using alcohol based solution. Cleaning:

Standards & Certifications

Flammability Standard: UL94V-0 actuator & case

The GW Series illuminated paddles have not been tested for UL recognition or CSA certification.

These switches are designed for use in a low-voltage, low-current, logic-level circuit.

When used as intended in a logic-level circuit, the results do not produce hazardous energy.

Distinctive Characteristics

World's smallest fully illuminated paddles for highly visible status indication; LEDs available in red, green, or amber for single color and red/green for bicolor.

Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer.

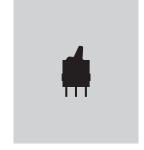
Insert molded terminals prevent entry of flux and other contaminants.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability, and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

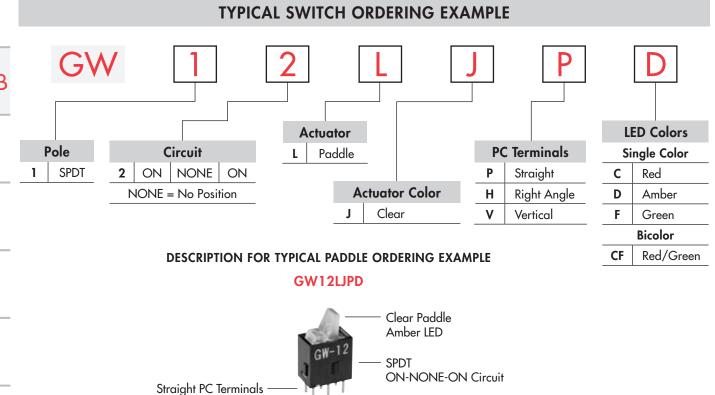
.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing for straight and angle mounting.



Actual Size







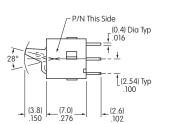
POLE & CIRCUIT												
		Paddle Position NONE = No Position			Connected Terminals			Throw & Schematics				
Pole	Model	Up	Center	Down	Up	Center	Down	Note: Terminal numbers are not actually on the switch. LED circuit is isolated and requires an external power source.				
SP	GW12	ON	NONE	ON	2-3	OPEN	2-1	SPDT 3 0 (5) 0 (6) (5) 0 (4) R (6) (6) (7) 0 (6) G (7) (6) G (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)				

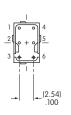
LED COLORS & SPECIFICATIONS

LEDs are an integral part of the the switch and not available separately. The electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.

				Single Color				
	Colors	C Red	D Amber	F Green	CF Red/Green			
	Colors	Rea	Amber	Green	Red/ Green			
Maximum Forward Current	I _{FM}	30mA	30mA	25mA	30mA/25mA			
Typical Forward Current	I _F	20mA	20mA	20mA	20mA/20mA			
Forward Voltage	$V_{_{\rm F}}$	2.0V	2.0V	2.1V	2.0V/2.1V			
Maximum Reverse Voltage	$V_{_{RM}}$	5V	5V	5V	5V/5V			
Current Reduction Rate Above	25°C ΔΙ _F	No Current Reduction Rate within Ambient Temperature Range						
Ambient Temperature Range	Ambient Temperature Range			−25°C ~ +55°C				

(0.25) Typ_ .010







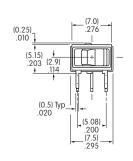


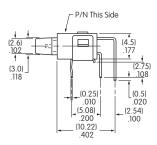
5 & 6 are LED terminals; 4 is a support pin on single color models & an LED terminal on bicolor models.

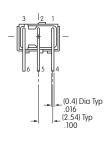
GW12LJPC

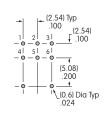
Right Angle PC









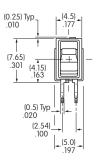


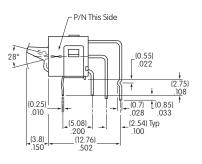


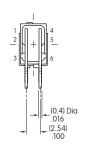
5 & 6 are LED terminals; 4 is a support pin on single color models & an LED terminal on bicolor models.

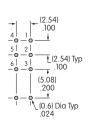
GW12LJHD

Vertical PC











5 & 6 are LED terminals; 4 is a support pin on single color models & an LED terminal on bicolor models.

GW12LJVCF