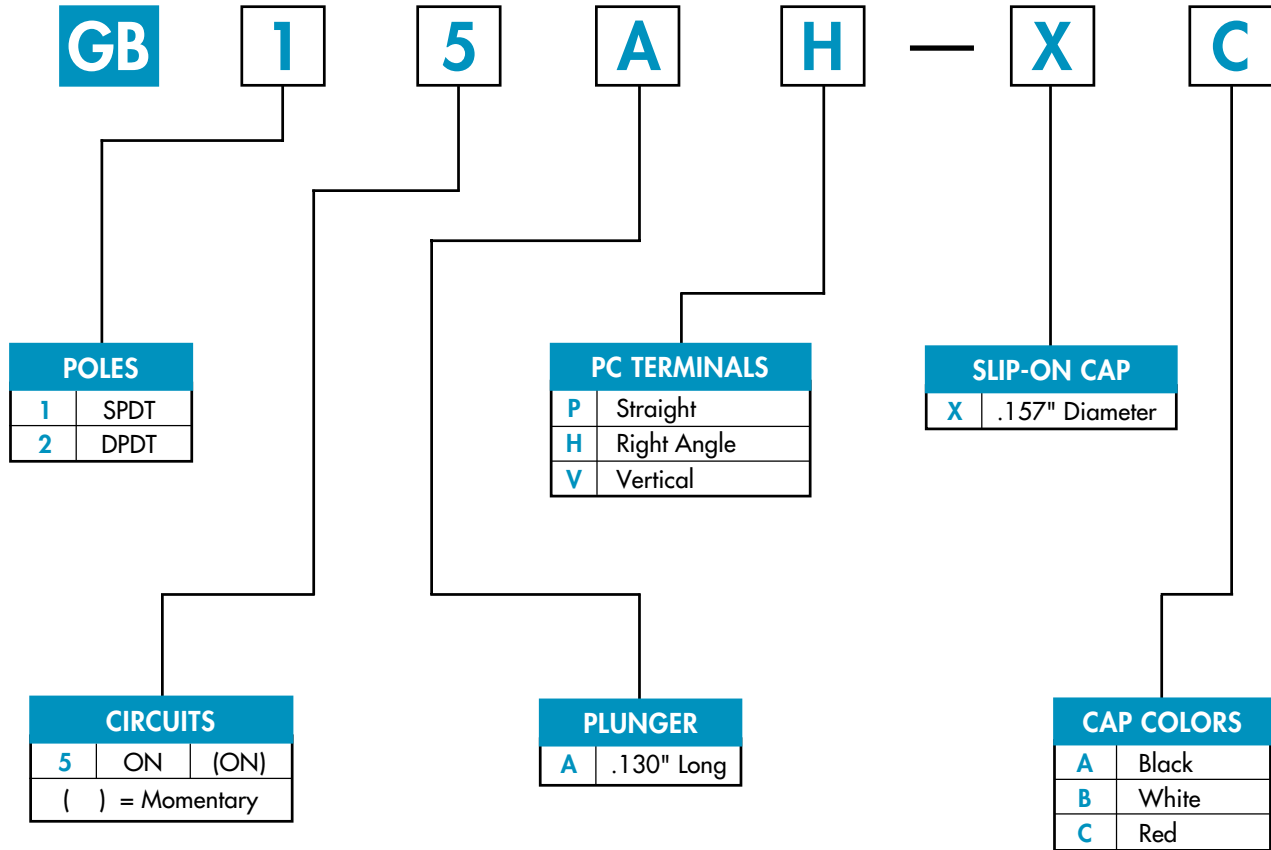


## TYPICAL SWITCH ORDERING EXAMPLE



### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**GB15AH-XC**



## GENERAL SPECIFICATIONS

### Electrical Capacity (Resistive Load)

**Logic Level:** 0.4VA maximum @ 28V AC/DC maximum  
 (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)  
 Note: See Supplement Index (page Z1) to find explanation of operating range.

### Other Ratings

**Contact Resistance:** 80 milliohms maximum  
**Insulation Resistance:** 500 megohms minimum @ 500V DC  
**Dielectric Strength:** 500V AC minimum  
**Mechanical Life:** 100,000 operations minimum for On-None-On & On-Off-On  
 50,000 operations minimum for other circuits  
**Electrical Life:** 100,000 operations minimum for On-None-On & On-Off-On  
 50,000 operations minimum for other circuits  
**Nominal Operating Force:** Toggles: 95 grams for momentary & 122 grams for maintained  
 Rockers: 83 grams for momentary & 108 grams for maintained  
 Pushbuttons: 200 grams  
**Contact Bounce:** 1 millisecond  
**Toggle & Rocker Angle of Throw:** 28°  
**Pushbutton Travel:** Pretravel 0.9mm (.035") Overtravel 0.2mm (.008") Total 1.1mm (.043")

### Materials & Finishes

**Actuator for Toggles & Rockers:** Glass fiber reinforced polyamide  
**Actuator for Pushbuttons:** Polyacetal  
**Case:** Glass fiber reinforced polyamide  
**Sealing Rings:** Nitrile butadiene rubber  
**Movable Contacts:** Phosphor bronze with gold plating over nickel  
**Stationary Contacts:** Phosphor bronze with gold plating over nickel  
**Base:** Glass fiber reinforced polyamide  
**Terminals:** Phosphor bronze with gold plating over nickel

### Environmental Data

**Operating Temp Range:** -30°C through +85°C (-22°F through +185°F) for toggles & rockers  
 -40°C through +85°C (-40°F through +185°F) for pushbuttons  
**Humidity:** 90 ~ 95% humidity for 96 hours @ 40°C (104°F)  
**Vibration:** 10 ~ 500Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range  
 & returning in 1 minute; 3 right angled directions for 2 hours  
**Shock:** 50g acceleration (tested in 6 right angled directions, with 5 shocks in each direction)






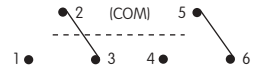
### Installation

**Rocker Cap Installation Force:** 4.0 kg (8.8 lbs) maximum downward force on actuator  
**Soldering Time & Temperature:** 3 seconds @ 350°C or 5 seconds @ 270°C  
**Process Seal:** See Supplement Index (page Z1) for specific processing data.

### Standards & Certifications

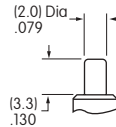
**IECQ Approved:** All toggle & pushbutton models recognized at 0.4VA maximum @ 28V AC/DC maximum  
 Qualification Approval Numbers:  
 G Toggle Switches JP792-7A  
 GB Pushbutton Switches JP792-6A

## POLES & CIRCUITS

		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Schematics
Pole	Model	Normal 	Down 	Normal 	Down 	Note: Terminal numbers are not actually on the switch.
SP	<b>GB15</b>	ON	(ON)	2-3	2-1	SPDT 
DP	<b>GB25</b>	ON	(ON)	2-3 5-6	2-1 5-4	DPDT 

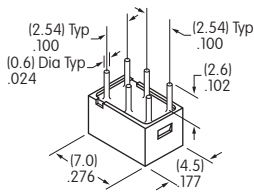
## PLUNGER

**A** .130" Long Plunger

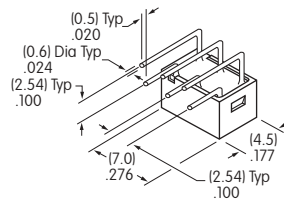


## PC TERMINALS

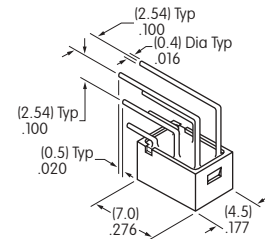
**P** Straight



**H** Right Angle



**V** Vertical



## SLIP-ON CAP & COLORS

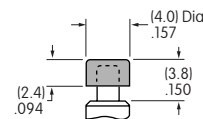
**X** AT4063  
.157" Diameter Slip-on Cap

Material: Polyamide

Finish: Glossy



Actual Size



Cap Colors Available:



Black



White

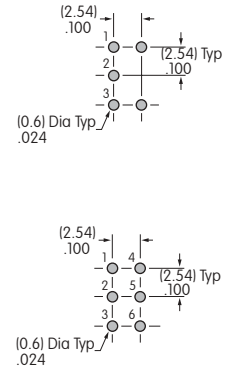
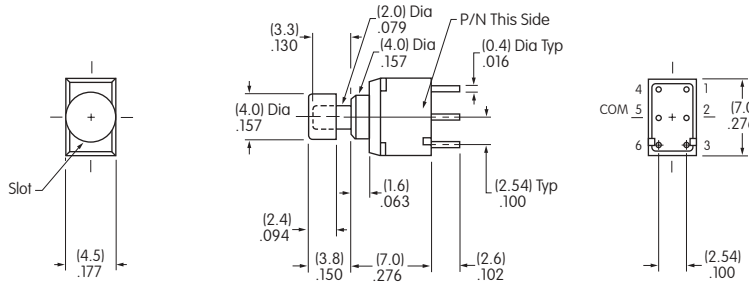


Red

### TYPICAL SWITCH DIMENSIONS

#### Single & Double Pole

#### Straight PC

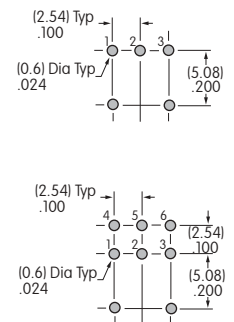
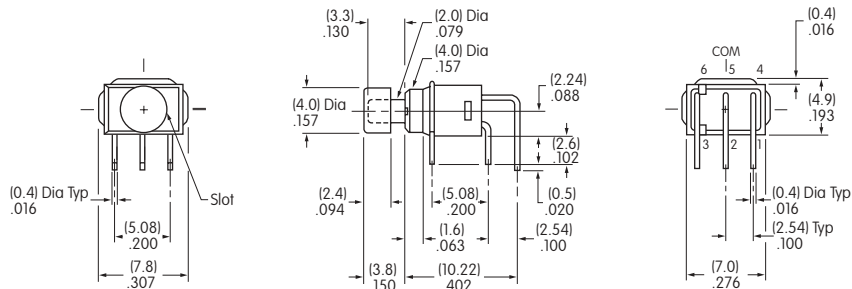


GB25AP-XC

On single pole switches terminals 4 & 6 are support pins.

#### Single & Double Pole

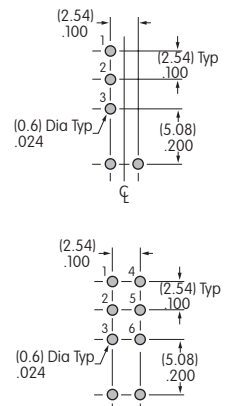
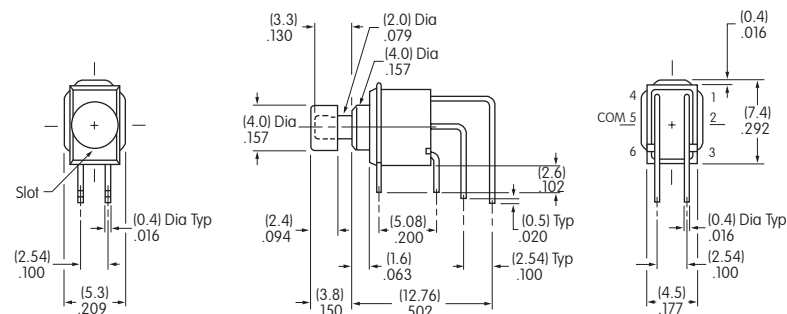
#### Right Angle PC



GB25AH-XC

#### Single & Double Pole

#### Vertical PC



GB25AV-XC