

Distinctive Characteristics

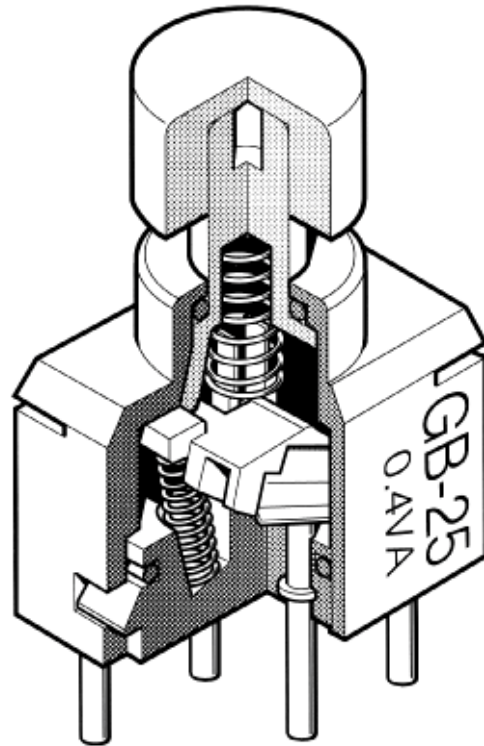
Ultra-miniature size allows high density mounting, and extremely light weight of 0.25 gram makes these switches ideal for handheld equipment.

Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and washing.

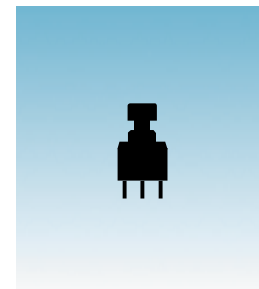
Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement Index page Z2.)

.100" x .100" terminal spacing conforms to standard PC board gridspacing. Round terminals facilitate easier through-hole mounting on PC boards.

Matching indicators available and shown in the Indicator section.



Actual Size



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 Z2) 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 for 1 minute minimum
Mechanical Life: 50,000 operations minimum
Electrical Life: 50,000 operations minimum
Nominal Operating Force: 200 grams
Travel: Pretravel 0.9mm (.035") Overtravel 0.2mm (.008") Total 1.1mm (.043")

Materials & Finishes

Actuator: Polyacetal
Case: Glass fiber reinforced polyamide
Sealing Rings: Nitrile butadiene rubber
Movable Contacts: Phosphor bronze with gold plating
Stationary Contacts: Phosphor bronze with gold plating
Base: Glass fiber reinforced polyamide
Terminals: Phosphor bronze with gold plating

Environmental Data

Operating Temp Range: -30°C through +85°C (-22°F through +185°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz 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 (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

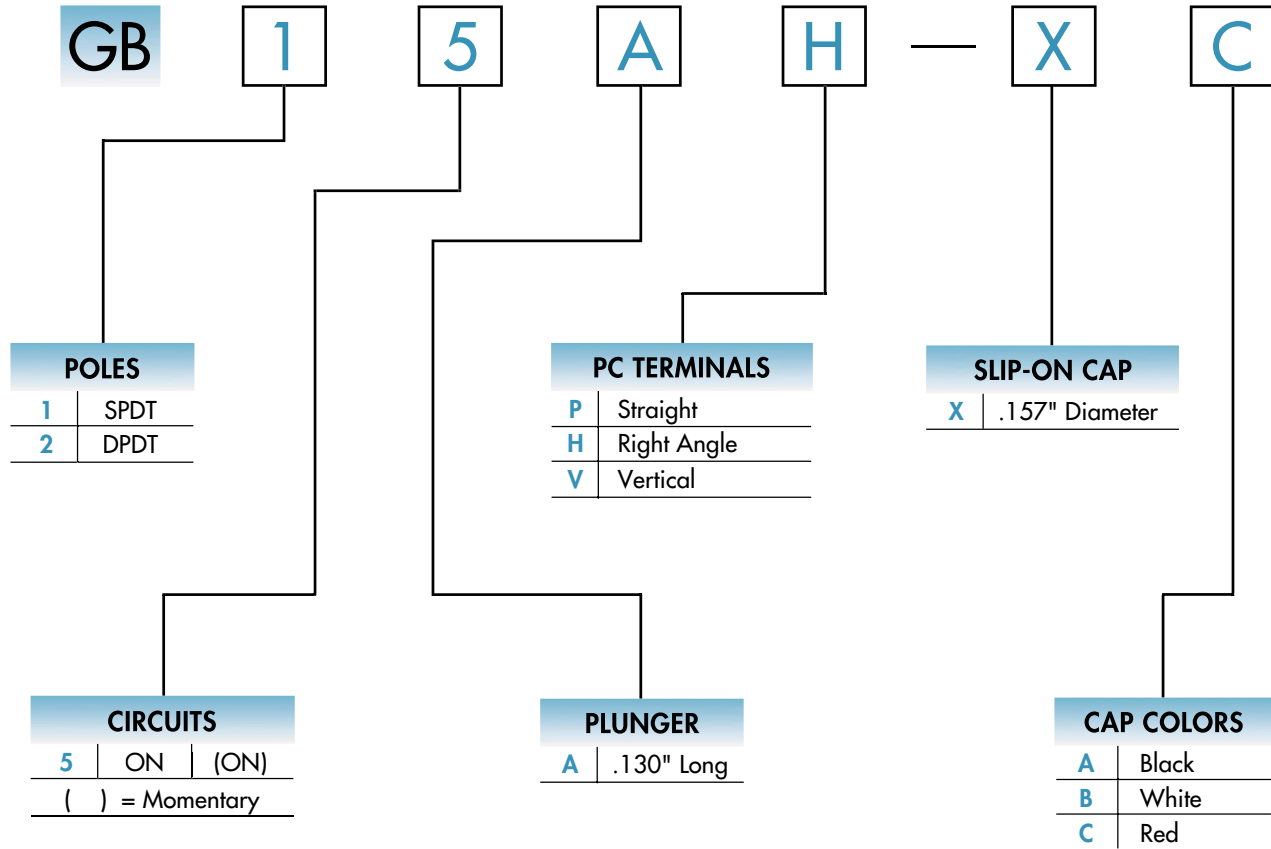
Installation

Cap Installation Force: 39.1N (8.8 lbf) maximum downward force on actuator
Soldering Time & Temperature: 3 seconds @ 350°C or 5 seconds @ 270°C
Process Seal: See Supplement Index (page Z2) for specific processing data.

Standards & Certifications

UL Recognition or CSA Certification: The GB Series pushbuttons 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.

TYPICAL SWITCH ORDERING EXAMPLE









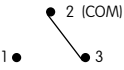




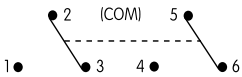


DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

GB15AH-XC



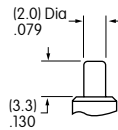
POLES & CIRCUITS

Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Schematics
		Normal 	Down 	Normal 	Down 	
SP	GB15	ON 	(ON) 	2-3 	2-1 	SPDT 
DP	GB25	ON 	(ON) 	2-3 5-6 	2-1 5-4 	DPDT 

Note: Terminal numbers are not actually on the switch.

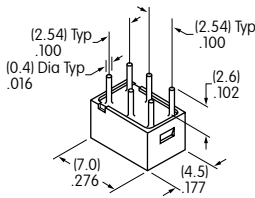
PLUNGER

A .130" Long Plunger

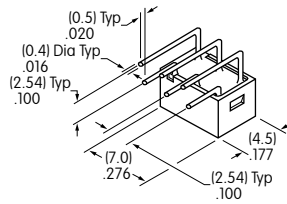


PC TERMINALS

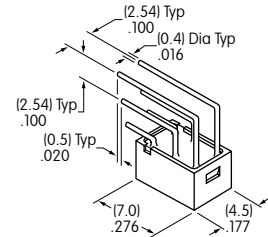
P Straight



H Right Angle



V Vertical



SLIP-ON CAP & COLORS

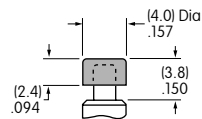
X AT4063
.157" Diameter Slip-on Cap

Material: Polyamide

Finish: Glossy



Actual Size



Cap Colors Available:

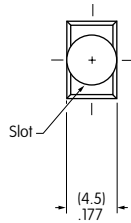
A Black

B White

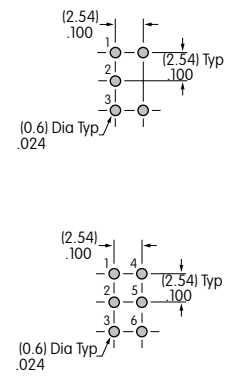
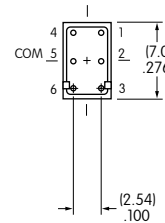
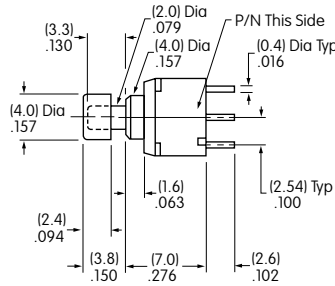
C Red

TYPICAL SWITCH DIMENSIONS

Straight PC



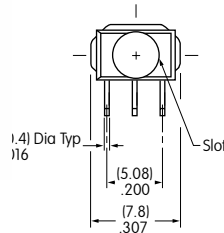
Single & Double Pole



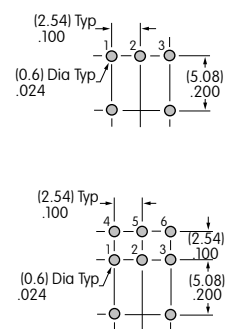
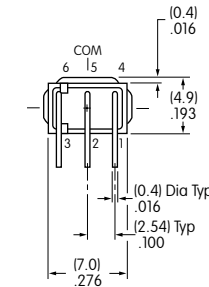
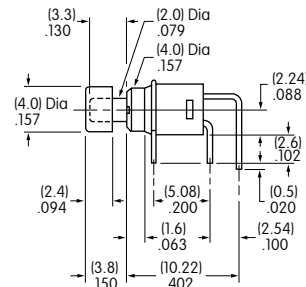
GB25AP-XC

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

Right Angle PC

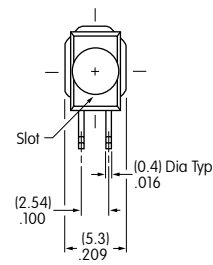


Single & Double Pole

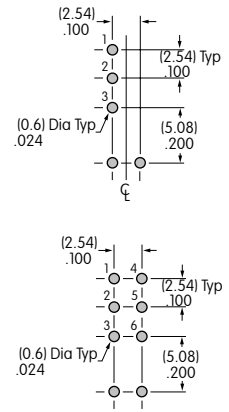
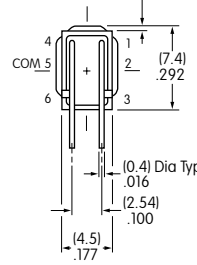
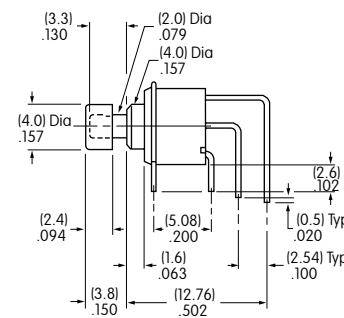


GB25AH-XC

Vertical PC



Single & Double Pole



GB25AV-XC