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Supplement | Accessories | Indicators

General Specifications

Electrical Capacity (Resistive Load)

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

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

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

Other Ratings

80 milliohms maximum **Contact Resistance:**

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

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

Nominal Operating Force:

Travel: Pretravel .035" (0.9mm); Overtravel .008" (0.2mm); Total Travel .043" (1.1mm)

Materials & Finishes

Actuator: Polyacetal

Glass fiber reinforced polyamide Case:

Sealing Rings: Nitrile butadiene rubber

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

Mounting Bracket: Phosphor bronze with tin plating **Terminals:** Phosphor bronze with gold plating

Environmental Data

Operating Temp Range: -30°C through +85°C (-22°F through +185°F)

90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

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

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

PCB Processing

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

Manual Soldering: See Profile A in Supplement section.

Cleaning: Automated cleaning. See Cleaning specifications in Supplement section.

Standards & Certifications

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.



Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Distinctive Characteristics

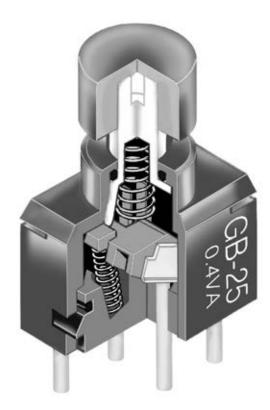
Ultra-miniature size allows high density mounting, and extremely light weight of 0.25 gram makes these switches ideal for handheld equipment.

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

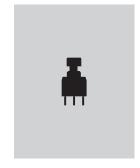
Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board gridspacing. Round terminals facilitate easier through-hole mounting on PC boards.

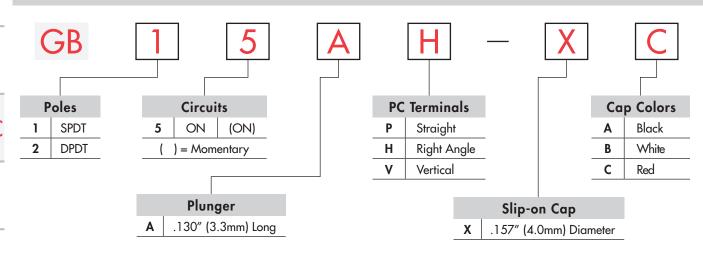
Matching indicators available.



Actual Size







TYPICAL SWITCH ORDERING EXAMPLE

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

GB15AH-XC

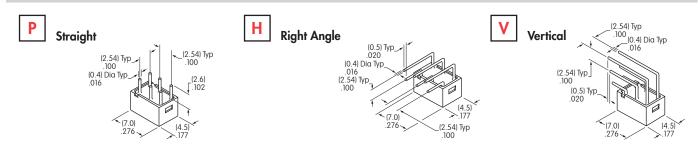


| POLES & CIRCUITS | | | | | | | |
|------------------|-------|----------------------------------|------|---------------------|---------|--------------------|--|
| | | Plunger Position () = Momentary | | Connected Terminals | | Throw & Schematics | |
| Pole | Model | Normal Slot | Down | Normal Slot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

PLUNGER



PC TERMINALS





SLIP-ON CAP & COLORS



AT4063

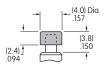
.157" (4.0mm) Diameter Slip-on Cap

Material: Polyamide

Finish: Glossy



Actual Size



Cap Colors Available:



Black





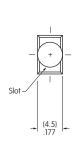
(0.6) Dia Typ] .024

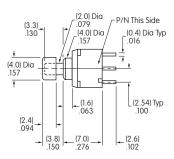
(0.6) Dia Typ_ .024

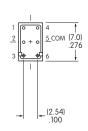


TYPICAL SWITCH DIMENSIONS

Single & Double Pole







On single pole switches terminals 1 & 3 are support pins.

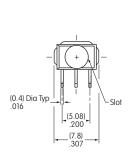
Straight PC

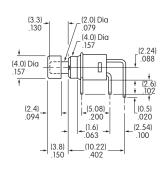


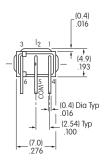
GB25AP-XC

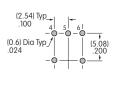
Right Angle PC

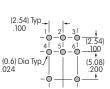
Single & Double Pole







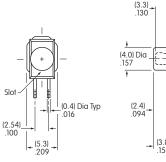


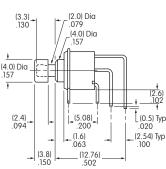


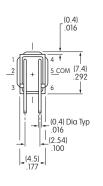


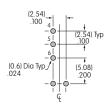
GB25AH-XC

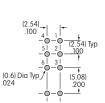
Single & Double Pole











Vertical PC



GB25AV-XC