# 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 Ratinas**

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:	1.70N
Travel:	Pretravel .035" (0.9mm); Overtravel .008" (0.2mm); Total Travel .043" (1.1mm)

#### **Materials & Finishes**

Polyamide
Glass fiber reinforced polyamide
Nitrile butadiene rubber
Phosphor bronze with gold plating
Phosphor bronze with gold plating
Glass fiber reinforced polyamide
Phosphor bronze with gold plating
Phosphor bronze with gold plating

#### **Environmental Data**

	<b>Operating Temperatu</b>	re Range:	–25°C through +55°C (–13°F through +131°F)
		Humidity:	90 ~ 95% humidity for 240 hours @ 40°C (104°F)
	,	Vibration:	10 ~ 500Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning
			in 15 minutes; 3 right angled directions for 2 hours
-		Shock:	50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
_	PCB Processing	Soldering:	Wave Soldering recommended. See Profile A in Supplement section.

Manual Soldering: See Profile A in Supplement section. Automated alcohol based cleaning recommended, 5 minutes maximum. Do not use high-purity Cleaning: alcohol (50% alcohol or more) or organic solvent. High alcohol solution can damage clear plastic. See Cleaning specifications in Supplement section.

#### **Standards & Certifications**

The GB Series illuminated 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.

Rotaries

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Touch



## Distinctive Characteristics

Fully illuminated plunger for highly visible status indication with single color LED in red, green, or amber.

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

Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning. Insert-molded terminals lock out flux, solvents, and other contaminants.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smooth, 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. Round terminals facilitate easier through-hole mounting on PC boards.

Nonilluminated pushbuttons available and shown in the Pushbutton section.



Actual Size



Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

**Factiles** 

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Touch

Supplement Accessories Indicators

### **Series GB**





Ambient Temperature Range

ment section.

#### **Ultra-Miniature Fully Illuminated Plungers**

## Series GB





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