

General Specifications

Electrical Capacity (Resistive Load)

Logic Level (code G): 0.4VA maximum @ 28V AC/DC maximum

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

Other Ratings

Contact Resistance: 80 milliohms maximum

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

Mechanical Life: 100,000 operations minimum **Electrical Life:** 100,000 operations minimum

Nominal Operating Force: 1.8 Newtons

> Travel: 1.3mm (.051") pretravel; 0.5mm (.020") overtravel; 1.8mm (.071") total travel

Materials & Finishes

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

Contact Terminals: Phosphor bronze with gold plating

Lamp Terminals: Steel with silver plating

Environmental Data

Operating Temp Range: -25°C through +50°C (-13°F through +122°F)

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 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: 15N (3.37 lbf) maximum downward force on cap

Soldering Time & Temperature: 3 seconds @ 350°C or 5 seconds @ 270°C

> **Process Seal:** Not available

Standards & Certifications

UL Recognition The HB2 pushbuttons have not been tested for UL recognition or CSA certification. 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

Quiet actuation combined with crisp tactile feedback suited for broadcast equipment.

Full face illumination with choice of red/green or red/yellow bicolor LEDs, as well as simultaneous bicolor illumination which produces amber.

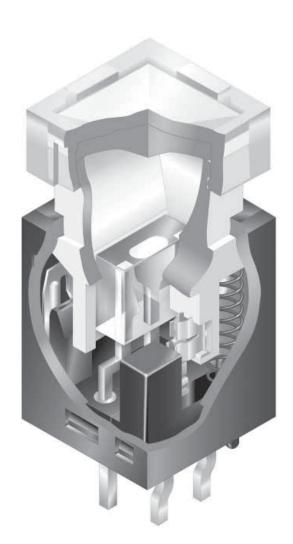
Option of legends on caps or film insert.

Compact design with short body 17.0mm (.669") from PCB to top of cap and 7.5mm (.295") square cap.

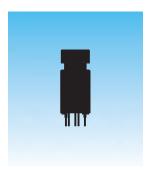
Sliding Twin Crossbar (STC) mechanism provides unequalled logic-level reliability, contact stability, smooth positive detent actuation, and long life.

Crimped power terminals ensure secure PCB mounting and prevent dislodging during soldering.

Suitable applications include broadcast, telecommunication, and medical equipment, as well as measuring instruments, etc.



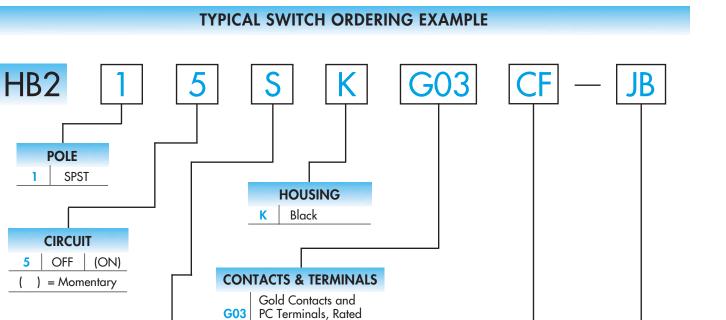
Actual Size





CAP COLORS

Clear Lens/White Diffuser



LEDS

Red/Yellow

Red/Green

Amber can be achieved by simultaneous illumination of LEDs.

0.4VA @ 28V AC/DC

CE

CF

SHAPE

Square

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

HB215SKG03CF-JB

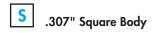






POLE & CIRCUIT						
		Plunger Position () = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics
Pole	Model	Normal	Down	Normal	Down	Notes: Switch terminals are not marked on switch. Red LED terminal is marked with "R". LED circuit is isolated and requires external power source.
SP	HB215	OFF	(ON)	OPEN	1-2	SPST 1 2 2 3 (+) Red 3 (+) Yellow or Green

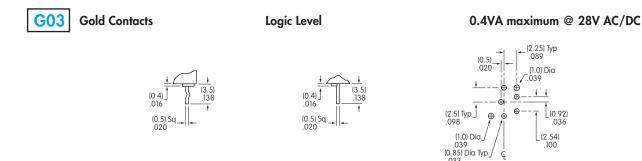
HOUSING SHAPE & COLOR





PCB Footprint

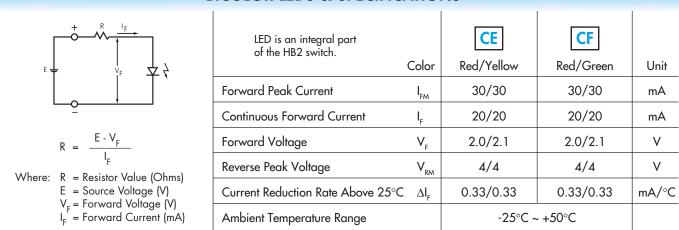
CONTACT MATERIALS, RATINGS, & TERMINALS



Switch Terminal

BICOLOR LEDS & SPECIFICATIONS

Lamp Terminal



Electrical specifications are determined at a basic temperature of 25°C. LED circuit is independent of switch operation.

If the source voltage is greater than rated LED voltage, a ballast resistor must be connected in series with the LED. The circuit diagram and formula above will assist in calculating the value of the required ballast resistor.

Series HB2 Quiet Actuation Illuminated Pushbutton



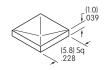
CAP COLORS

Clear Transparent Lens

AT3081 Square Lens (7.5) Sq (295)

B White Translucent Diffuser

AT3082 Square Diffuser



Lens & Diffuser Material: Polycarbonate

Lens Finish: Glossy

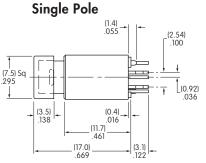
Diffuser Finish: Frosted

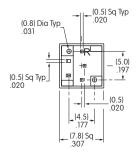
TYPICAL SWITCH DIMENSIONS

Square







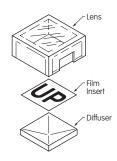


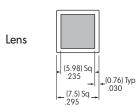
HB215SKG03CF-JB

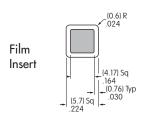
LEGENDS

General information and basic specifications are presented here for customers who want to do their own legends.

Suggested Printable Area for Lens and Film Insert







Shaded area is printable area.

Recommended Print Method:

Screen Print on Lens or Film Insert; Pad Print on Lens. Epoxy based ink is recommended.

Insert Material and Thickness: Clear Polyester, 4 mil max.

Additional Methods

Additional methods for legends are engraving the lens and laser printing on film inserts.

Maximum depth for engraving is 0.3 mm (.012") on the cap lens.

Enamel paint is recommended to fill the engraved area.

LEGEND PACKET



- 1. To order caps with legends, contact the factory and request the HB2 Legend Packet.
- 2. Once you determine your desired legend, fill out the ordering work sheet included in the packet.
- 3. Return the completed work sheet to receive a quotation.