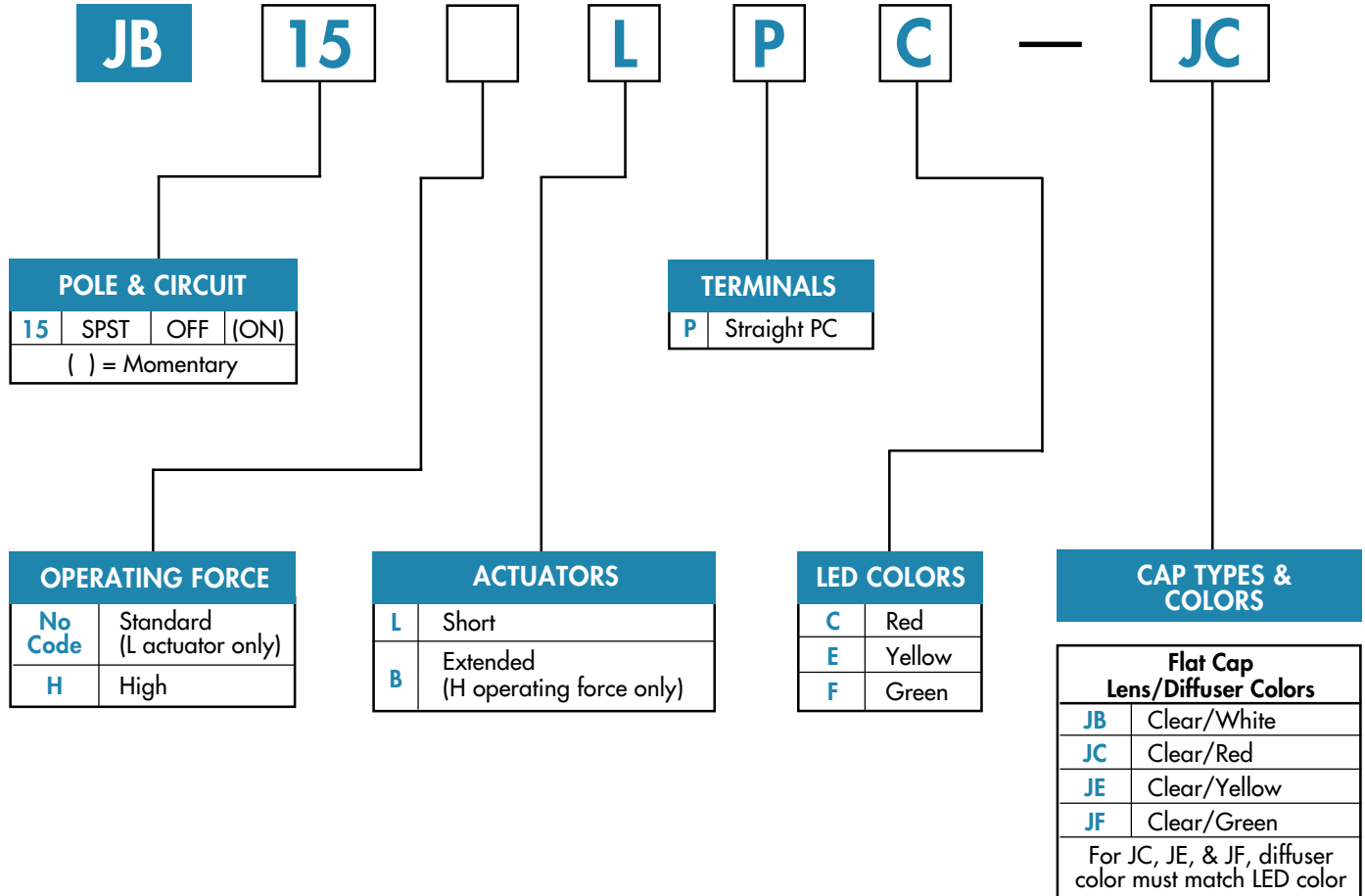




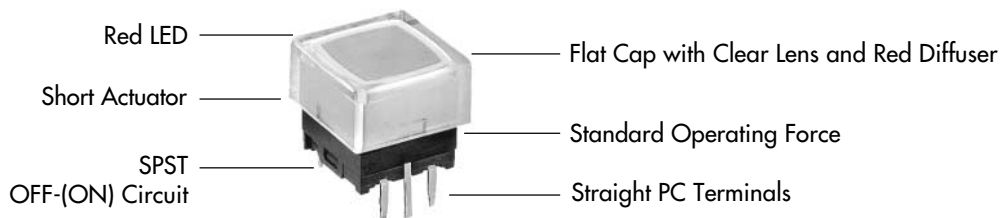
TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

JB15LPC-JC

Framed Cap Button/Frame Colors	
BB	White/White
BC	White/Red
BE	White/Yellow
BF	White/Green
BH	White/Gray





GENERAL SPECIFICATIONS

Electrical Capacity (Resistive Load)

Power Level: 50mA @ 24V DC maximum for Standard Operating Force models
125mA @ 24V DC maximum for High Operating Force models

Other Ratings

	Standard Operating Force	High Operating Force
Contact Resistance:	50 milliohms maximum	50 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 250V DC	500 megohms minimum @ 250V DC
Dielectric Strength:	250V AC minimum	250V AC minimum
Mechanical Life:	5,000,000 operations minimum	1,000,000 operations minimum
Electrical Life:	5,000,000 operations minimum	1,000,000 operations minimum
Nominal Operating Force:	180 grams (JB15L)	270 grams (JB15HL & JB15HB)
Contact Bounce:	0.1 millisecond maximum	0.1 millisecond maximum
Total Travel:	.254mm (.010")	.300mm (.012")

Materials & Finishes

Actuator:	Polyacetal
Case:	Glass fiber reinforced polyamide
Seal:	Nitrile butadiene rubber
Base:	Glass fiber reinforced polyester
Movable Contacts:	Beryllium copper with silver plating
Stationary Contacts:	Brass with silver plating
Terminals:	Brass with silver plating

Environmental Data

Operating Temp Range:	-25°C through +70°C (-13°F through +158°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 acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Soldering Time & Temperature: 3 seconds @ 350°C manual soldering or 5 seconds @ 270°C solder pot
Process Seal: See [Supplement Index](#) for specific processing data.



Series JB

Low Profile Washable Tactile Switches

POLE & CIRCUIT

Pole & Throw	Model	Actuator Position () = Momentary		Switch Throw & Schematic	LED Schematic	Notes: Terminal numbers are shown on switch. LED circuit is isolated & requires external power source.
		Normal	Down			
SPST	JB15	OFF	(ON)	SPST		

OPERATING FORCE

No Code

Standard Nominal Operating Force 180 gf

Available with short actuator only (code L).

H

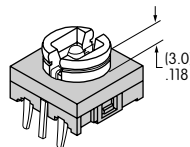
High Nominal Operating Force 270 gf

Available with both short and extended actuators.

ACTUATORS

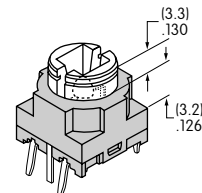
L

Short Actuator



B

Extended Actuator



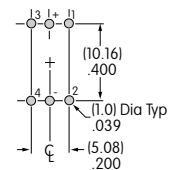
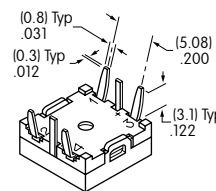
Combines with high operating force only.

TERMINALS

P

Straight PC Terminals

Further details in Typical Switch Dimensions.



LED COLORS & SPECIFICATIONS

LEDs are supplied as an integral part of illuminated devices and are not available separately.

LED polarity markings are on the bottom of the switch.

The electrical specifications shown are determined at a basic temperature of 25°C.

If the source voltage exceeds the rated voltage, a ballast resistor is required.

The resistor value can be calculated by using the formula in the [Supplement](#).

		C	E	F
	Color	Red	Yellow	Green
Forward Peak Current	I_{FM}	30mA	20mA	20mA
Continuous Forward Current	I_F	20mA	15mA	15mA
Forward Voltage	V_F	2.0V	1.9V	1.95V
Reverse Peak Voltage	V_{RM}	5V	5V	5V
Current Reduction Rate Above 25°C	ΔI_F	0.40mA/°C	0.27mA/°C	0.27mA/°C



Series JB

Low Profile Washable Tactile Switches

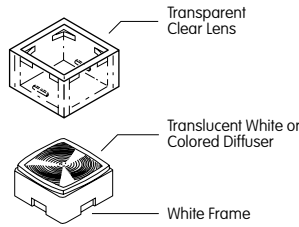
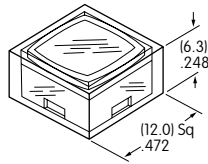
SNAP-ON CAPS

AT4060 Flat

Lens/Diffuser
Color Codes:

- JB** Clear/Translucent White
- JC** Clear/Red
- JE** Clear/Yellow
- JF** Clear/Green

Material: Polycarbonate
Lens Finish: Glossy

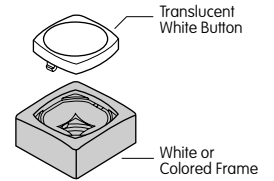
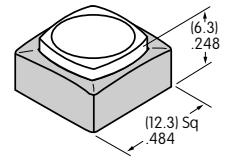


Framed: AT4076 Button with AT4078 Frame

Translucent Button/Frame Color Codes:

- BB** White/White
- BC** White/Red
- BE** White/Yellow
- BF** White/Green
- BH** White/Gray

Material: Polycarbonate Button Finish: Frosted

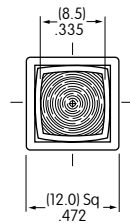


TYPICAL SWITCH DIMENSIONS

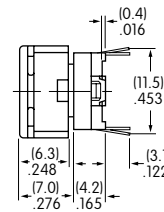
Flat Snap-on Cap



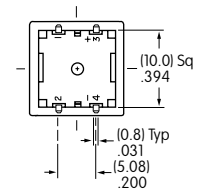
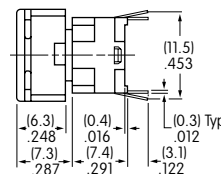
JB15LPC-JC



Short Actuator



Extended Actuator

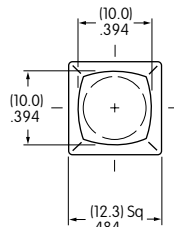


Spring action terminals conform to .100" PCB spacing.

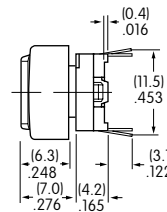
Framed Snap-on Cap



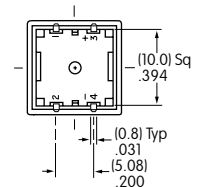
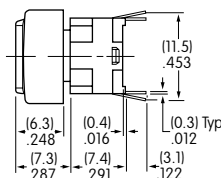
JB15HBPC-BC



Short Actuator



Extended Actuator



Spring action terminals conform to .100" PCB spacing.