Distinctive Characteristics

Carefully designed light diffusion and filtering system produces bright, full surface illumination with front panel relamping.

Spot illumination available in single and bicolor LEDs.

Choice of super bright LEDs in white, green, and blue in addition to standard or bright red, amber, and green LEDs.

Stainless steel clips provide secure mounting with a wide range of panel thicknesses.

Latchdown feature gives indication of circuit status. Audible and tactile feedback with smooth and responsive operation.

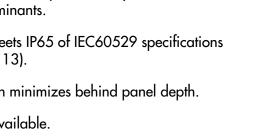
Snap-action contact mechanism gives long electrical life and sensitivity of actuation.

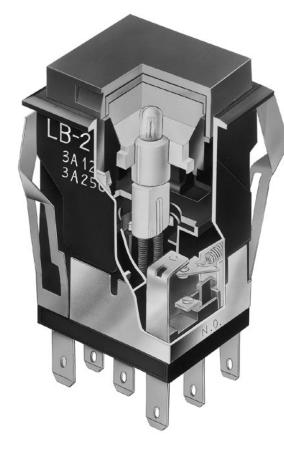
Combination solder lug and .110" quick connect terminals are epoxy sealed to prevent entry of flux, dust, and other contaminants.

Panel sealed model meets IP65 of IEC60529 specifications (similar to NEMA 4 & 13).

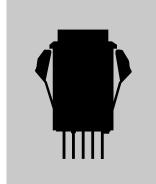
Compact switch design minimizes behind panel depth.

Matching indicators available.

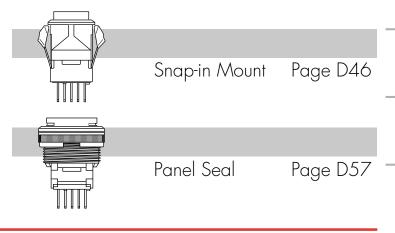












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Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver): 3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC 0.4VA maximum @ 28V AC/DC maximum Logic Level (gold): (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

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

Other Ratings

Contact Resistance:	50 milliohms maximum for silver; 100 milliohms maximum for gold
Insulation Resistance:	200 megohms minimum @ 500V DC
Dielectric Strength:	1,000V AC minimum between contacts for 1 minute minimum;
-	1,500V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	1,000,000 operations minimum for momentary circuit
	200,000 operations minimum for maintained circuit
Electrical Life:	100,000 operations minimum
Nominal Operating Force:	5.39N
Contact Timing:	Nonshorting (break-before-make)
Travel:	Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing:	Glass fiber reinforced polyamide (UL94V-0)
O-ring:	Nitrile butadiene rubber
Inner Seal:	Silicone rubber
Movable Contact:	Silver alloy or copper with gold plating
Stationary Contacts:	Silver alloy or copper with gold plating
Base:	Liquid crystal polymer (UL94V-0)
Switch Terminals:	Phosphor bronze with silver or gold plating
Lamp Terminals:	Brass with silver plating

Environmental Data

Operating Temperature Range:	–25°C through +50°C (–13°F through +122°F) for Illuminated
	–25°C through +70°C (–13°F through +158°F) for Nonilluminated
	Note: When used with a polyvinyl chloride splash cover, the lowest limit is 0°C (32°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/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP65 of IEC60529 standard (similar to NEMA 4 & 13)
C. C. H. A.	

Installation

Mounting Torque:	1.96Nm (17.35 lb•in) maximum
Cap Installation Force:	3.92N maximum downward force on cap
Quick Connect Force:	52.95N maximum downward force on connector
Soldering Time & Temperature:	Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards:	UL94V-0 housing & base
UL:	File No. E44145 - Recognized only when ordered with marking on switch.
	Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.
	All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.
CSA:	File No. 023535_0_000 - Certified only when ordered with marking on switch.
	Add "/C" before first dash in part number to order CSA certified switch.
	All models certified at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.

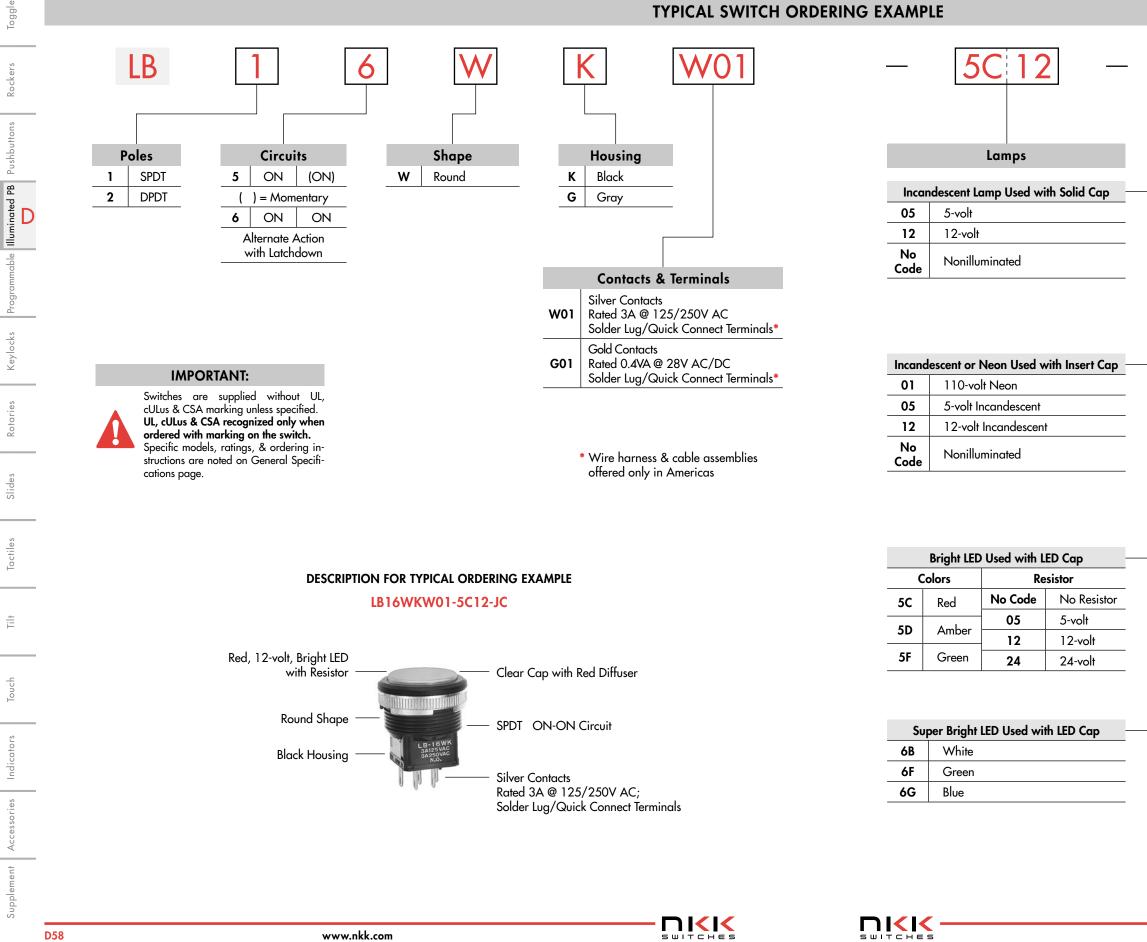
Series LB

Toggles

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SWITCHES

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Cap	Types	&	Colors
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-	Solid Cap: Lens/Filter Colors
BJ	White/Clear
CJ	Red/Clear
EJ	Yellow/Clear
FJ	Green/Clear
GJ	Blue/Clear

-	Insert Cap: Lens/Filter Colors
JB	Clear/White
JC	Clear/Red
JE	Clear/Yellow
* JF	Clear/Green
*JG	Clear/Blue
* JF & JG not suitable with neon.	

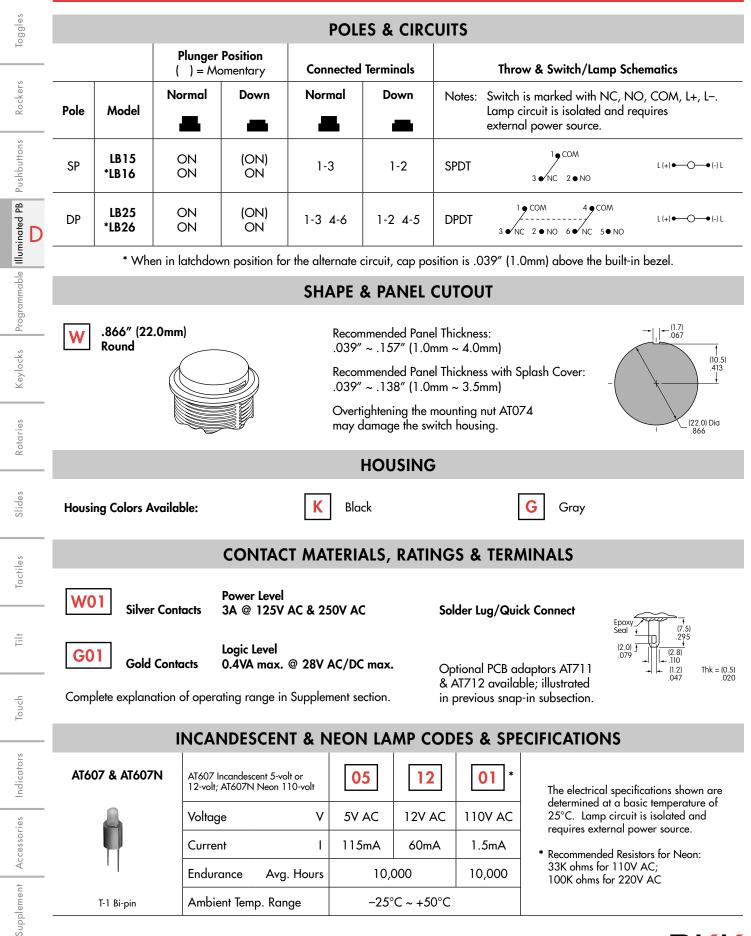
	LED Cap: Lens/Diffuser Colors
JB	Clear/White
JC	Clear/Red
JD	Clear/Amber
JF	Clear/Green

LED Cap: Lens/Diffuser Colors	
Clear/White	
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Toggles Rock Pushł D ninated PB Illumi Keylocks ies Rot Slides Tactiles ÷ Indicators ies Ace

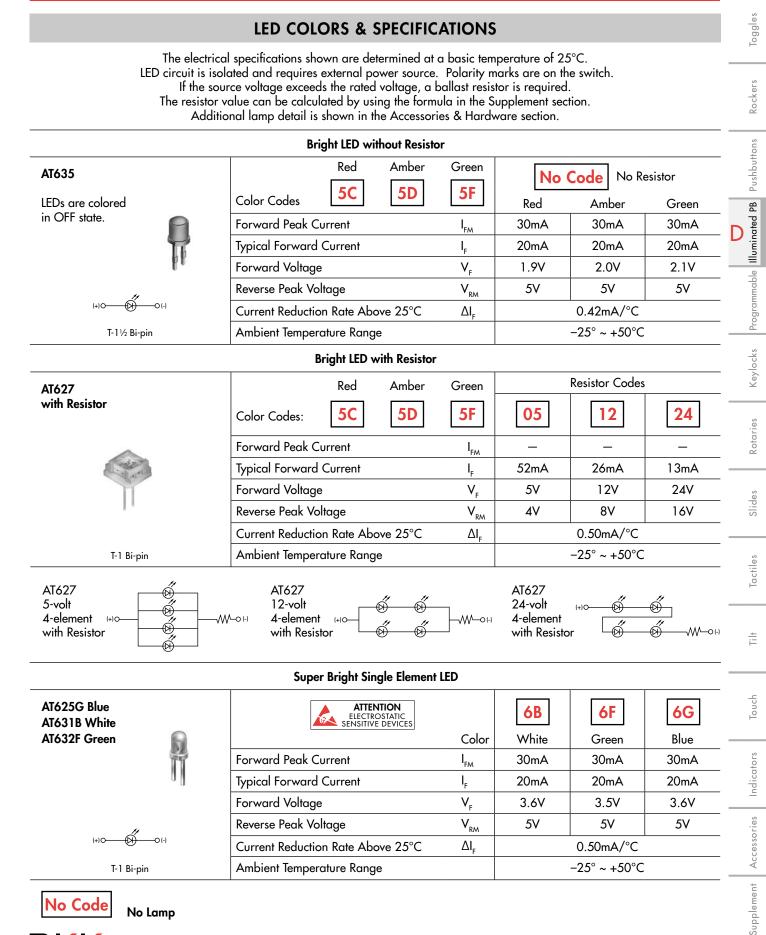
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Standard Size Panel Seal Pushbuttons

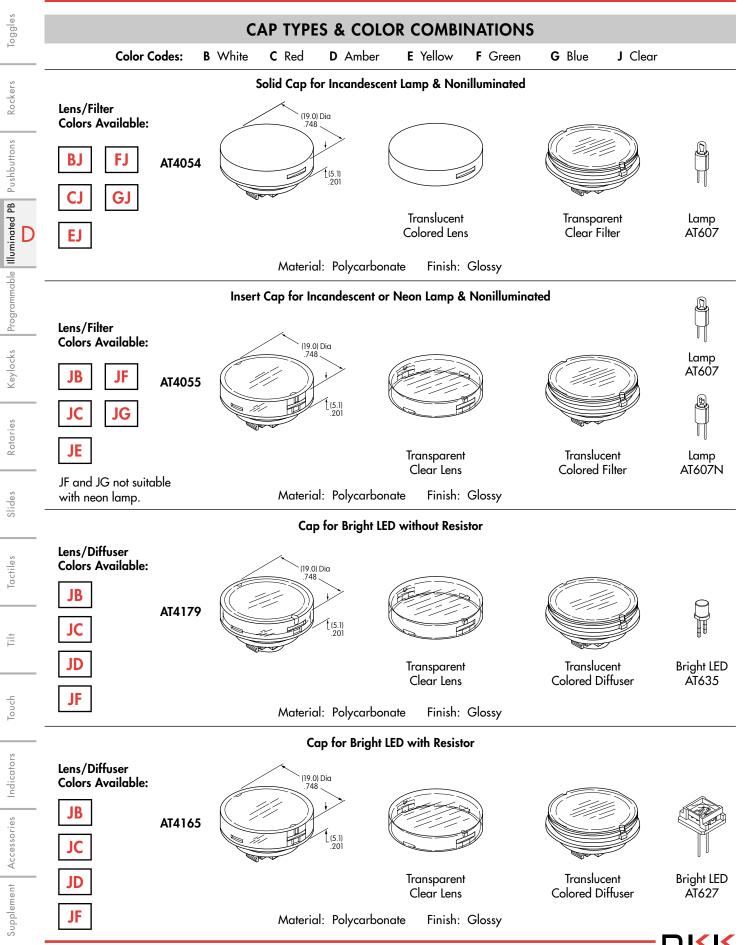


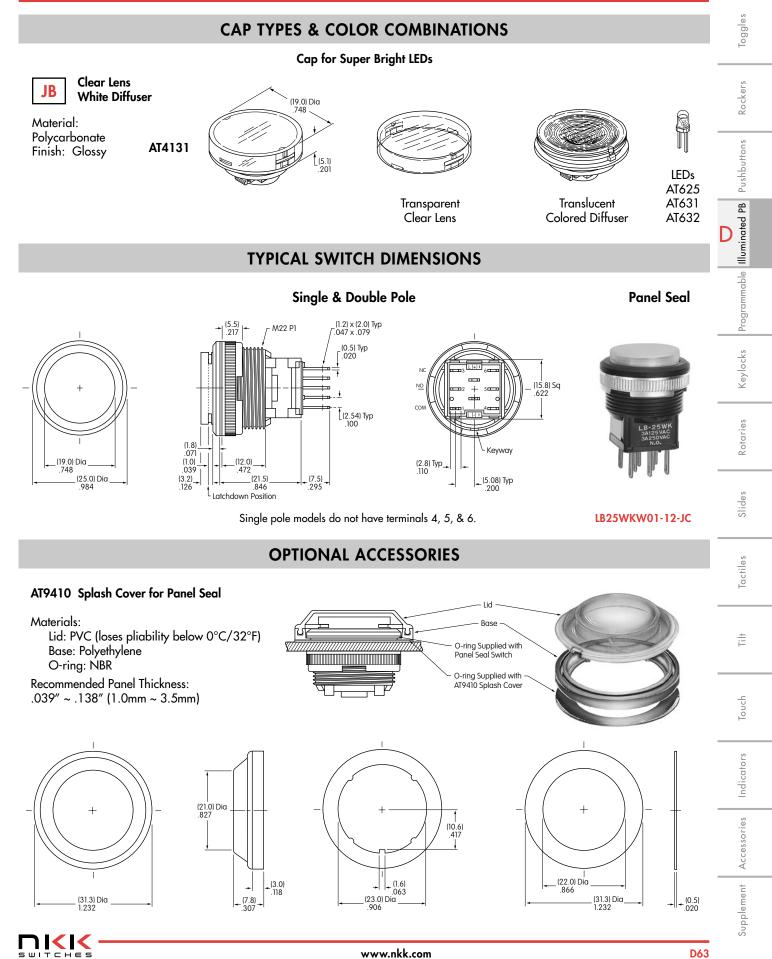
No Lamp

Series LB



D61





Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

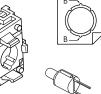
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Incandescent & Neon Lamps

Align projections on lamp with grooves (B) in holder when inserting lamp. To correctly join the lamp holder and cap base, match the cut corners (A).



AT607 & AT607N



Panel Seal Models For panel seal models,

Bright LED must first be inserted into the lamp socket which is built into the switch. The cap can then be placed on the switch.



Snap-in Models

ASSEMBLY INSTRUCTIONS

Lamp Installation & LED Orientation

Bright LED AT627

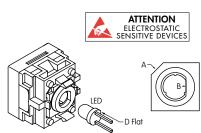
For snap-in models, Bright LED must be inserted into the cap first. Align cut corners (C) when

inserting the LED.

LED

Bright & Super Bright LEDs AT625, AT631, AT632, AT635

Align D-flat on LED with flat (B) in holder when inserting the LED. To correctly join the lamp holder and cap base, match the cut corners (A).

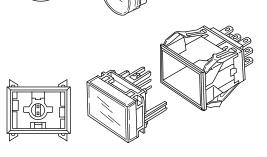


Square Match projection (C) on cap assembly with groove (C) inside switch. Lamp terminals will then be aligned correctly with lamp socket.

with lamp socket.

Switch & Cap Assembly

Round & Rectangular Match clip on cap assembly with receptacle inside switch. Lamp terminals will then be aligned correctly



Proiection Rubber Seal



Cut Corner

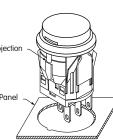
Panel Seal

With Lamps AT607, AT607N, and LEDs AT614, AT625, AT631, AT632: Match projection on cap assembly with notch inside switch. Lamp terminals will then be aligned correctly with lamp socket.

Snap-in Mount

Snap-in clip holds all switches firmly in place.

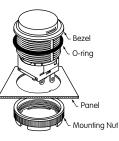
To mount round switch, match the antirotation Projection projection on switch with guide cut in Pane panel. Snap into panel cutout.



Installation & Maintenance

Panel Seal **Bushing Mount**

Insert switch from the front of the panel with the o-ring between the built-in bezel and the panel. Install mounting nut AT075 (supplied with switch) from the rear of the panel. Overtightening mounting nut may damage the switch housing.





AT109 **Cap Extractor**

Lamp Replacement

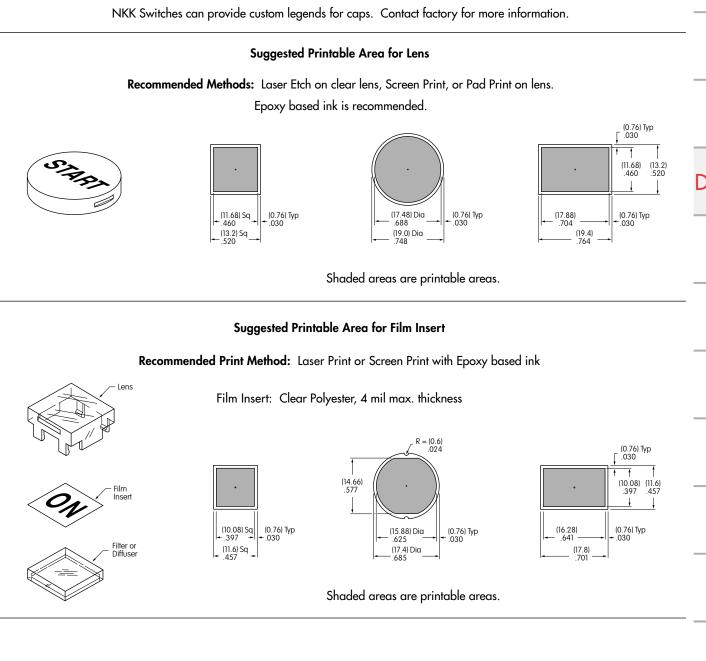
Actuator must be in UP position. Pull off cap with cap extractor AT109. Replace lamp and reassemble as shown above.



AT112 Socket Wrench



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