General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver): 3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC Logic Level (gold): 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 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					
Sealing	: IP65 of IEC60529 standard (similar to NEMA 4 & 13)				
..					
Installation					

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

Standards & Certifications

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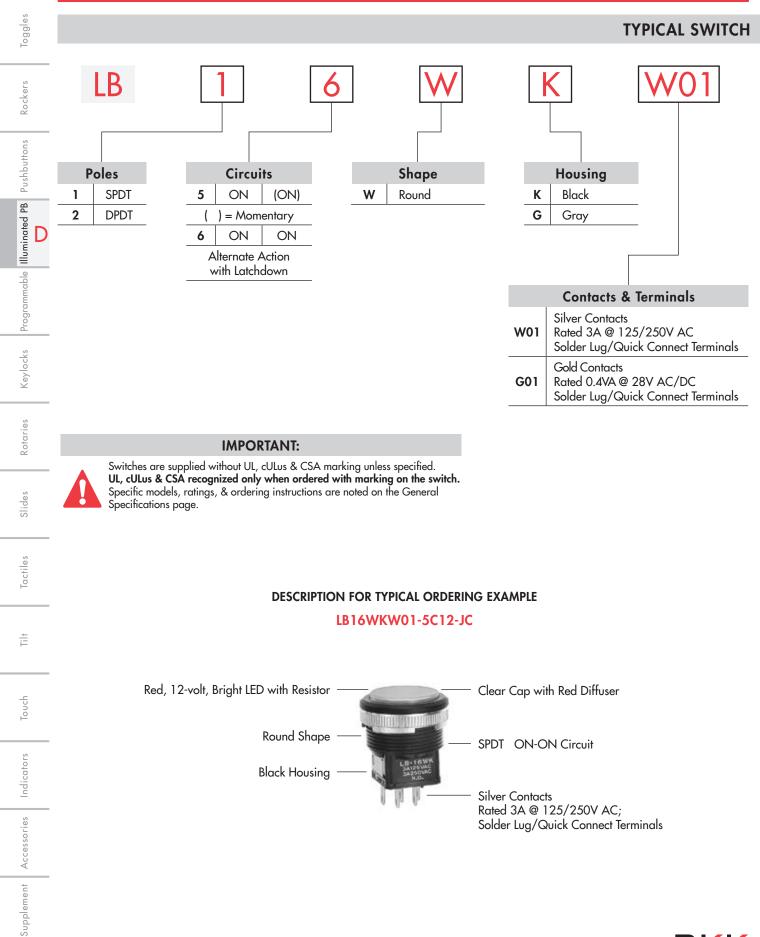
Flammability Standards:	: UL94V-0 housing & base			
UL:	File No. E44145 - Recognized only when ordered with marking on switch.			
	Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.			
	All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.			
CSA: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

Tactiles

Touch



ORD

Series LB

ERING EXAMPLE							
	5C 12 -	JC]				
	Lamps			Cap Types & Colors			
Incan	descent Lamp Used with Solid Cap			Solid Cap: Lens/Filter Colors			
05	5-volt	-	BJ	White/Clear			
12	12-volt	_	CJ	Red/Clear			
No	Nonilluminated	-	EJ	Yellow/Clear			
Code		-	FJ	Green/Clear			
			GJ	Blue/Clear			

Incandescent or Neon Used with Insert Cap		Insert Cap: Lens/Filter Colors		
01	110-volt Neon		JB	Clear/White
05	5-volt Incandescent		JC	Clear/Red
12	12-volt Incandescent		JE	Clear/Yellow
No	Nonilluminated		* JF	Clear/Green
Code			*JG	Clear/Blue
			* JF & JG not suitable with neon.	

Bright LED Used with LED Cap				LED Cap: Lens/Diffuser Col		
C	Colors	Re	esistor	-	JB	Clear/White
5C	Red	No Code	No Resistor		JC	Clear/Red
50	A 1	05	5-volt		JD	Clear/Amber
5D	Amber	12	12-volt		JF	Clear/Green
5F	Green	24	24-volt			,

Super Bright LED Used with LED Cap			LED Cap: Lens/Diffuser Colors
6B	White	JB	Clear/White
6F	Green		
6G	Blue		

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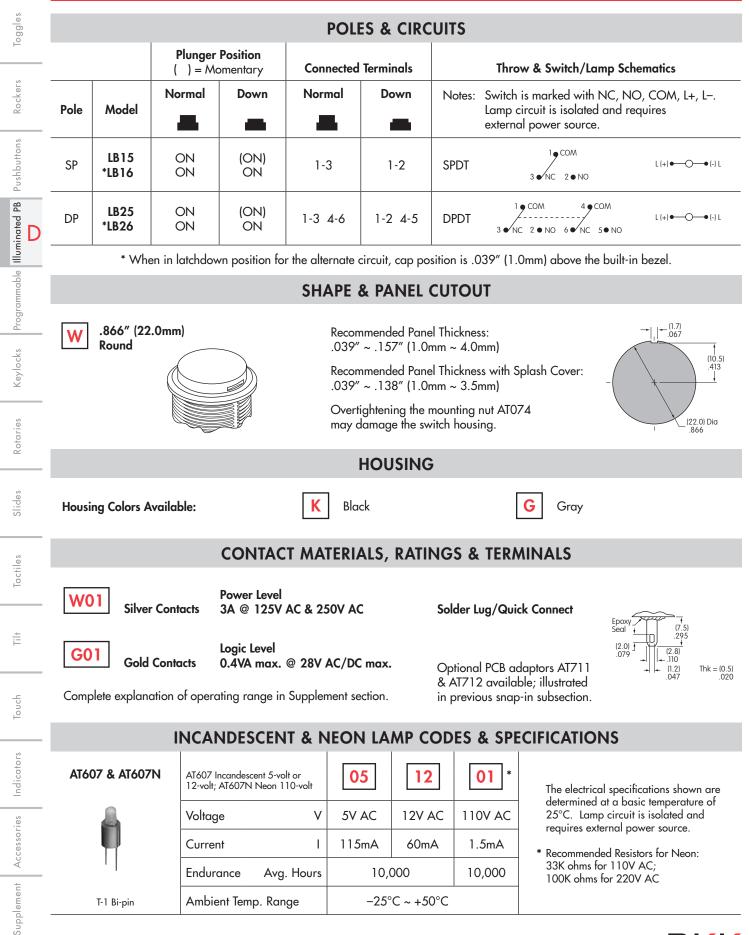
Toggles

Rockers

Touch



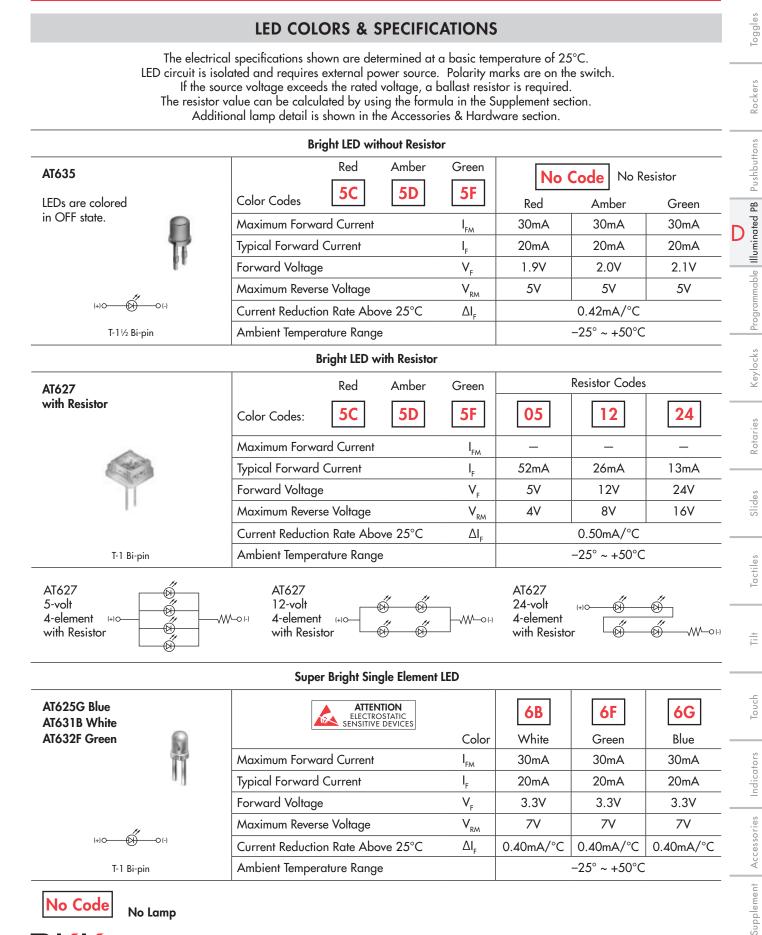
Standard Size Panel Seal Pushbuttons



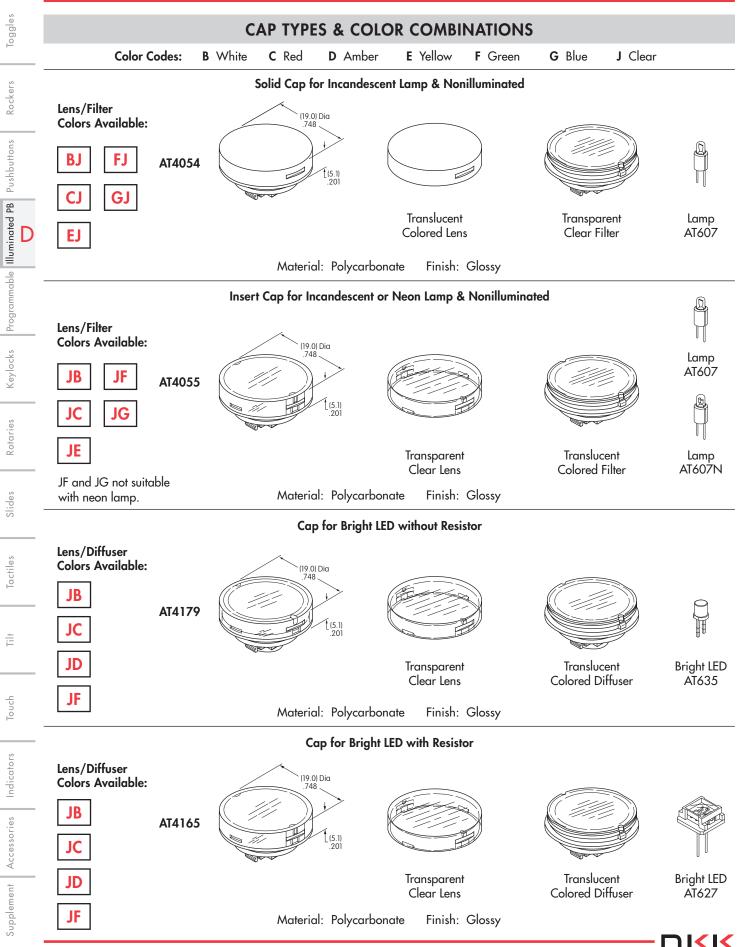


No Lamp

Series LB



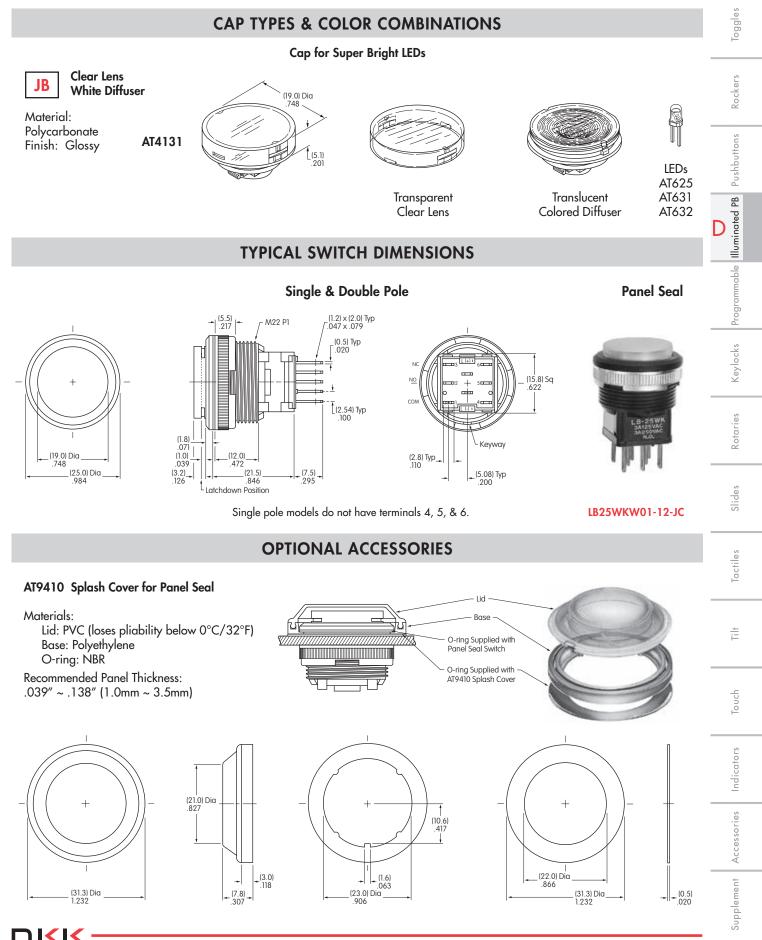
D63



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Series LB



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Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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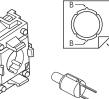
Touch

Indicators



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).



Incandescent & Neon Lamps AT607 & AT607N



Panel Seal Models

For panel seal models,

Bright LED must first be

socket which is built into

the switch. The cap can

then be placed on the

inserted into the lamp

Bright LED AT627

ASSEMBLY INSTRUCTIONS

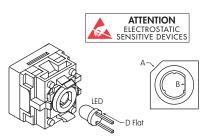
Lamp Installation & LED Orientation

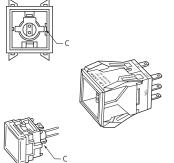
Snap-in Models For snap-in models, Bright LED must be inserted into the cap first. Align cut corners

(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).



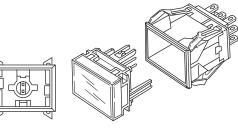


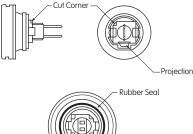
Square Match projection (C) on cap assembly with groove (C) inside switch. Lamp terminals will then be aligned correctly with lamp socket.

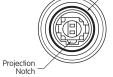
Switch & Cap Assembly **Round & Rectangular**

Match clip on cap assembly with receptacle inside switch. Lamp terminals will then be aligned correctly with lamp socket.









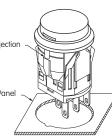
Panel Seal

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.

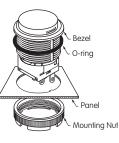
To mount round switch, match the antirotation Projection projection on switch with quide cut in Pane panel. Snap into panel cutout.



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

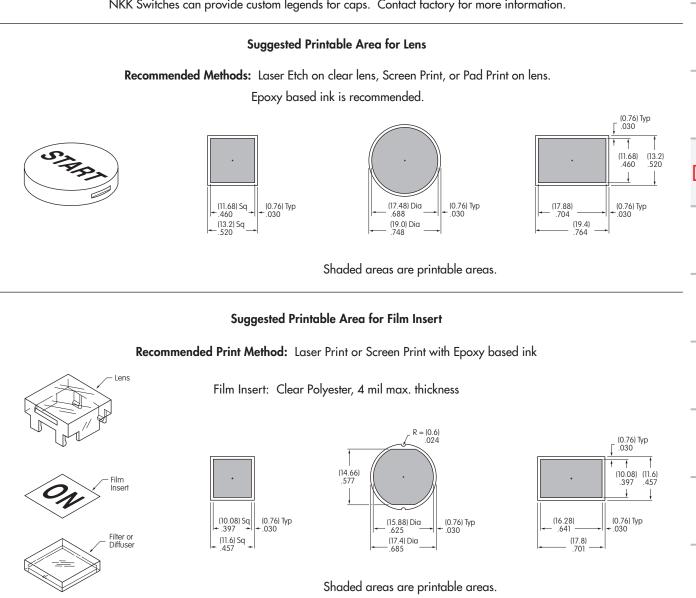
Actuator must be in UP position. Pull off cap with cap extractor AT109. Replace lamp and reassemble as shown above.



AT112 Socket Wrench



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NKK Switches can provide custom legends for caps. Contact factory for more information.

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