

# Distinctive Characteristics

Square, round, rectangular, and round panel seal models available.

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).

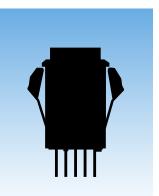
Compact switch design minimizes behind panel depth.

Matching illuminated models available and shown in the Illuminated Pushbutton section.

Matching indicators available and shown at the end of Section M.









# 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 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:	4.41N				
Contact Timing:	Nonshorting (break-before-make)				
Travel:	Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)				
	Pretravel .087" (2.2mm); Overtravel .031" (0.8mm); Total Travel .118" (3.0mm)				

### Materials & Finishes

Housing:	Glass fiber reinforced polyamide (UL94V-0)
Snap-in Frame:	Stainless steel
Movable Contact:	Silver alloy or copper with gold plating
Stationary Contacts:	Silver alloy or copper with gold plating
Base:	Liquid crystal polymer (UL94V-0)
Terminals:	Phosphor bronze with silver or gold plating

#### **Environmental Data**

Operating Temp Range:	–25°C through +70°C (–13°F through +158°F)
	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 <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	Not available for snap-in; see next section for panel seal.

#### Installation

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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**

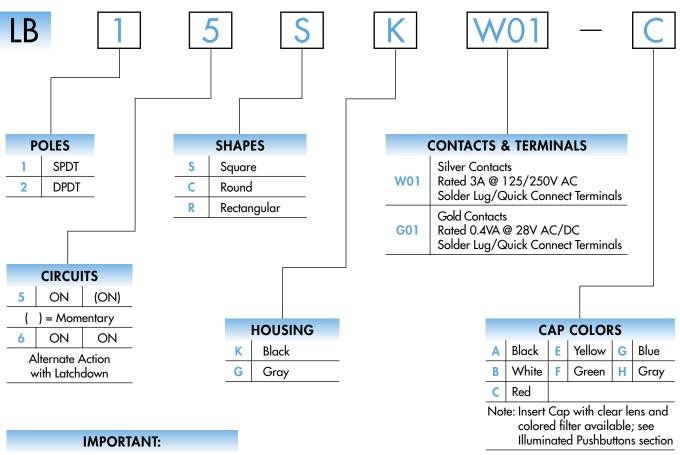
Flammability Standards: UL & C-UL Recognized:

CSA Certified:

UL94V-0 housing & base All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum; UL File No. WOYR2.E44145; add "/U" to end of part number to order UL mark on switch; C-UL File No. WOYR8.E44145; add "/C-UL" to end of part number to order C-UL mark on switch. All models certified at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum; CSA File Nos. 023535-0-000; add "/C" to end of part number to order CSA mark on switch.



## **TYPICAL SWITCH ORDERING EXAMPLE**

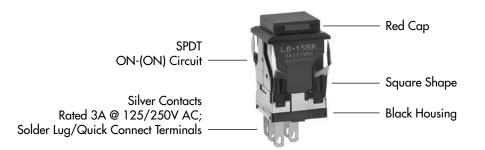




Switches are supplied without UL, C-UL & CSA markings unless specified. Specific models & ratings noted on General Specifications page.

#### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

#### LB15SKW01-C





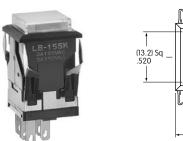
				POLI	ES & CIRC	CUITS	
		Plunger ( ) = Mo	<b>Position</b>	Connected Terminals			Throw & Switch/Lamp Schematics
Pole	Model	Normal	Down	Normal	Down	Note:	Switch is marked with NC, NO, COM, L+, L
SP	LB15 *LB16	ON ON	(ON) ON	1-3	1-2	SPDT	1 • COM 3 • NC 2 • NO
DP	LB25 *LB26	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT	1 • COM 4 • COM 3 • NC 2 • NO 6 • NC 5 • NO
	* Whe	en in latchdow	n position fo	r the alternate o	circuit, cap po	sition is .(	039" (1.0mm) above the built-in bezel.
				SHAPES a	& PANEL	<b>CUTO</b> Ι	JTS
S .622" (15.8mm) Square A							
Housi	ing Colors A	vailable:		K Bla	ck		G Gray
			CONTAC	T MATERI	ALS, RATI	NGS &	TERMINALS
W01       Silver Contacts       Power Level 3A @ 125V AC & 250V AC       Solder Lug/Quick Connect         G01       Gold Contacts       Logic Level 0.4VA max. @ 28V AC/DC max.       Solder Lug/Quick Connect         Complete explanation of operating range in Supplement section.       Thk = (0.5) .047       Thk = (0.5) .020					Epoxy Seal $\frac{1}{10000000000000000000000000000000000$		
CAPS & CAP COLORS							
	Color Cod	<b>les: A</b> Ble	ack BV	Vhite C	Red E	Yellow	F Green G Blue H Gray
Cap C	Colors Avai	lable: AT4 Squ H	are (13.2) Sq	(3.5) 138 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		OI Dia	AT4030 Rectangular 1,177 t 1,5.5 217 Glossy

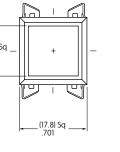


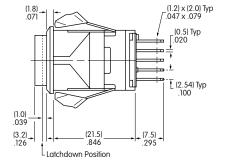
Square

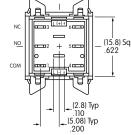
# **TYPICAL SWITCH DIMENSIONS**

Single & Double Pole







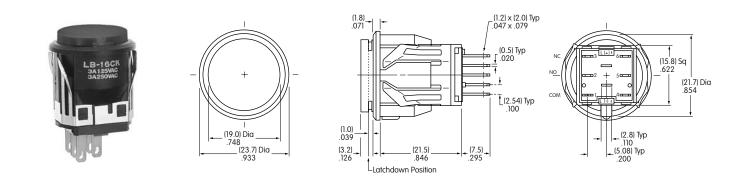


LB15SKW01-C

Single pole models do not have terminals 4, 5, & 6.

Round

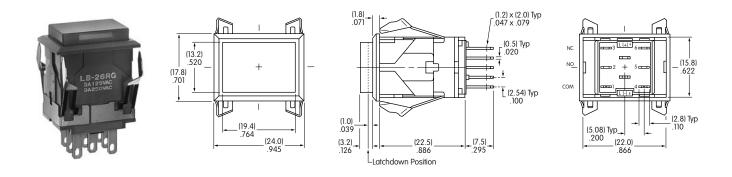
Single & Double Pole



LB16CKW01-C

Rectangular





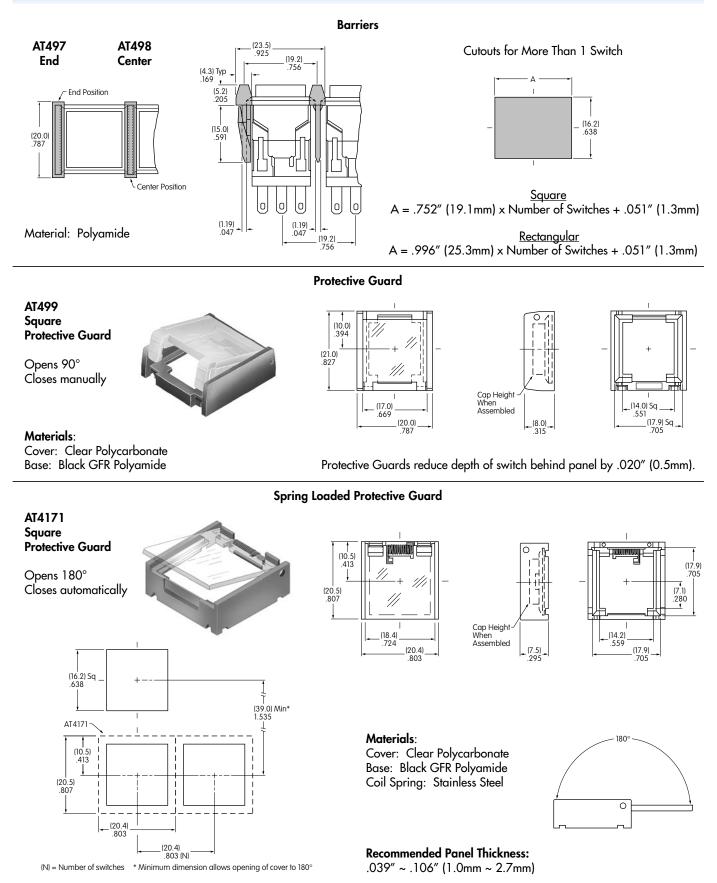
LB26RGW01-C

Single pole models do not have terminals 4, 5, & 6.

Single pole models do not have terminals 4, 5, & 6.



# **OPTIONAL ACCESSORIES**

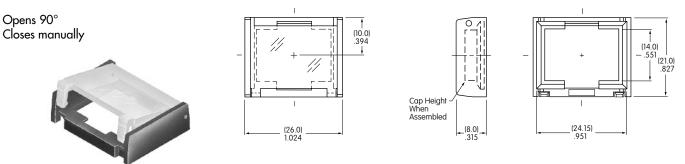




# **OPTIONAL ACCESSORIES**

**Protective Guard** 

AT4057 Rectangular Protective Guard



#### **Materials**:

Cover: Clear Polycarbonate Base: Black GFR Polyamide

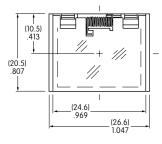
Protective Guards reduce depth of switch behind panel by .020" (0.5mm).

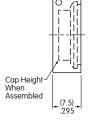
### Spring Loaded Protective Guard

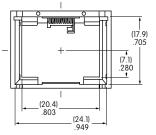
AT4172 Rectangular Protective Guard

Opens 180° Closes automatically



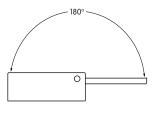


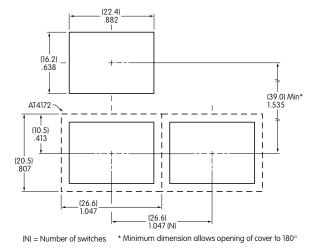




Materials: Cover: Clear Polycarbonate Base: Black GFR Polyamide Coil Spring: Stainless Steel

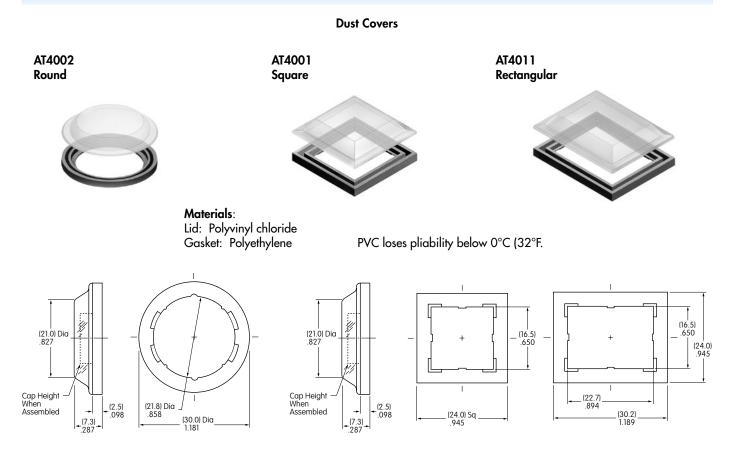
Recommended Panel Thickness: .039" ~ .106" (1.0mm ~ 2.7mm)







## **OPTIONAL ACCESSORIES**

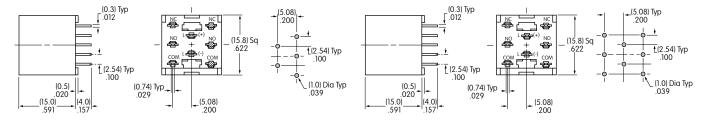


Dust Covers reduce depth of switch behind panel by .020" (0.5mm).

#### **PCB** Adaptors

AT711 Single Pole • Straight PC Terminals

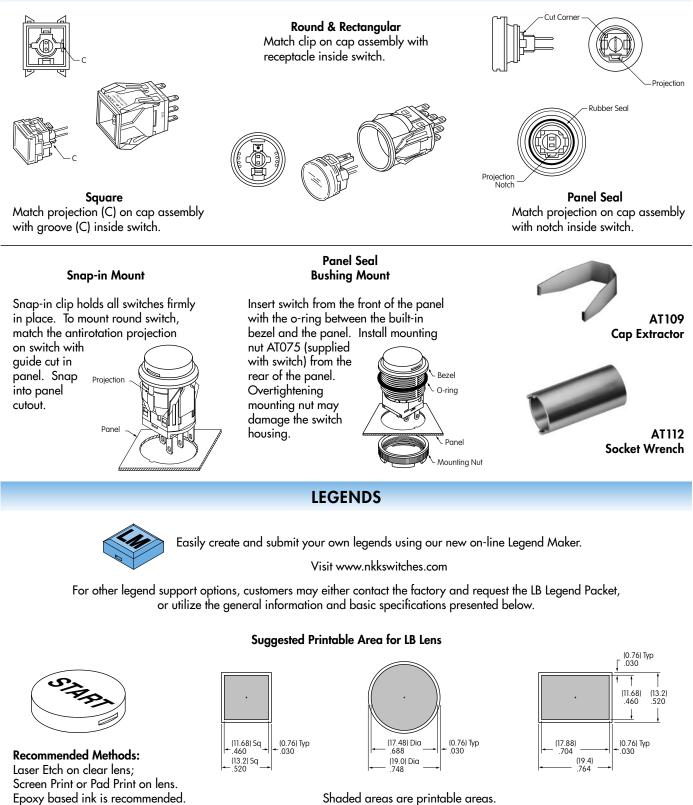
AT712 Double Pole • Straight PC Terminals







## **ASSEMBLY INSTRUCTIONS**



Shaded areas are printable areas.

**Additional Method** 

Additional method for legends is engraving the cap. Maximum depth for engraving is .012" (0.3mm) on the cap lens. Enamel paint is recommended to fill the engraved area.