General Specifications **Electrical Capacity (Resistive Load)** Power Level (silver): Logic Level (gold):

3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC

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

1,000V AC minimum between contacts for 1 minute minimum; **Dielectric Strength:**

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)

Materials & Finishes

Glass fiber reinforced polyamide (UL94V-0) Housing:

Snap-in Frame: Stainless steel

Movable Contact: Silver alloy or copper with gold plating **Stationary Contacts:** Silver alloy or copper with gold plating Liquid crystal polymer (UL94V-0) Base:

Phosphor bronze with silver or gold plating **Switch Terminals:**

Lamp Terminals: Brass with silver plating

Environmental Data

-25°C through +50°C (-13°F through +122°F) for Illuminated **Operating Temperature Range:** -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)

90 ~ 95% humidity for 96 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

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

Sealing: Not available for snap-in; see next section for panel seal.

Installation

3.92N maximum downward force on cap Cap Installation Force: **Quick Connect Force:** 52.95N maximum downward force on connector Manual Soldering: See Profile A in Supplement section. **Soldering Time & Temperature:**

Standards & Certifications

Flammability Standards: UL94V-0 housing & base

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.



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D49

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.

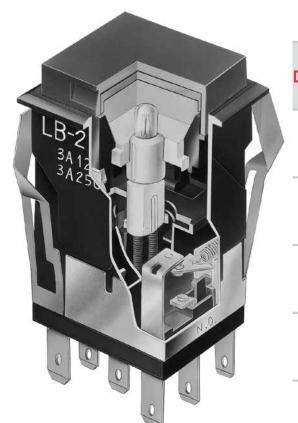
Snap-action contact mechanism gives long electrical life and sensitivity of actuation.

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

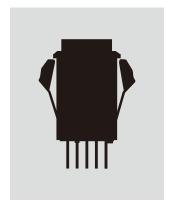
Panel sealed model meets IP65 of IEC60529 specifications (similar to NEMA 4 & 13).

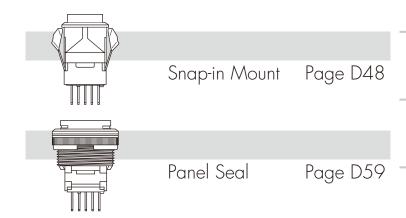
Compact switch design minimizes behind panel depth.

Matching indicators available.

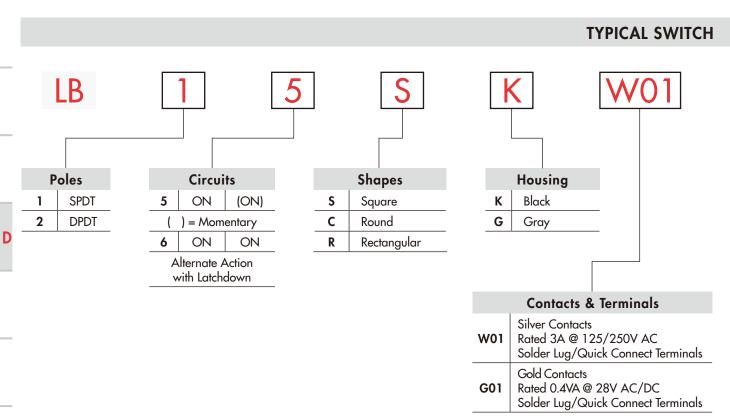


Actual Size









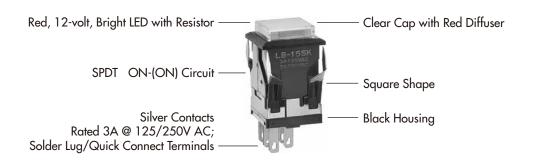
IMPORTANT:



Switches are supplied without UL, cULus and CSA marking unless specified. UL, cULus & CSA recognized only when ordered with marking on the switch. Specific models, ratings, and ordering instructions are noted on the General Specifications page.

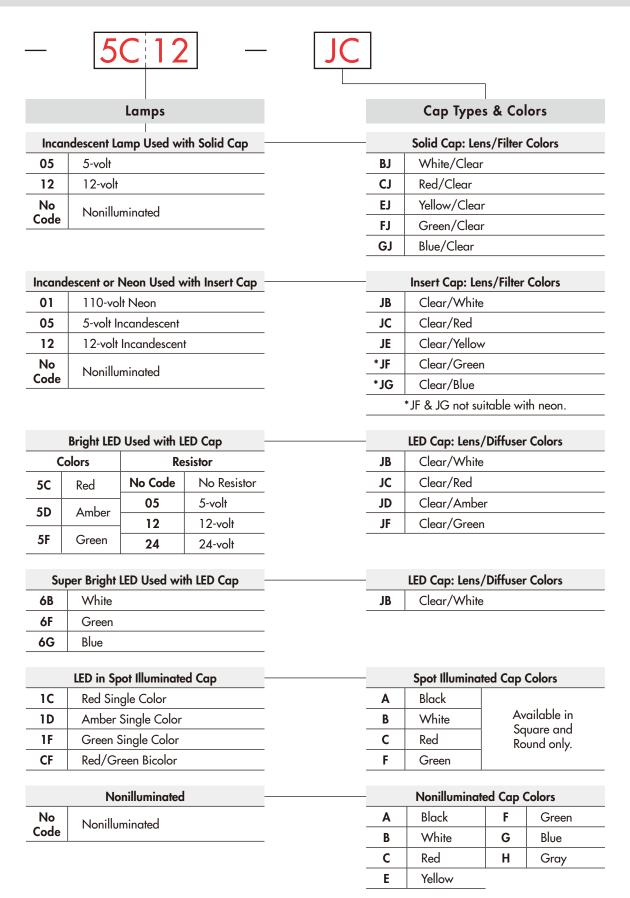
DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LB15SKW01-5C12-JC



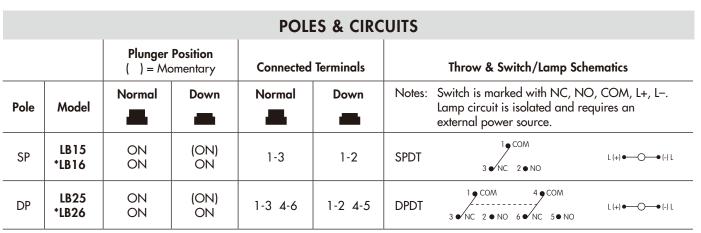


ORDERING EXAMPLE



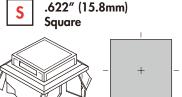


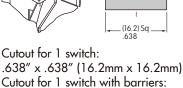
D



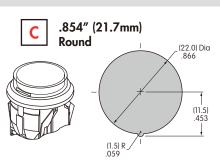
^{*} When in latchdown position for the alternate circuit, cap position is .039" (1.0mm) above the built-in bezel.

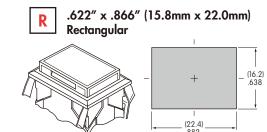
SHAPES & PANEL CUTOUTS





.638" x .815" (16.2mm x 20.7mm)





Cutout for 1 switch: .638" x .882" (16.2mm x 22.4mm) Cutout for 1 switch with barriers: .638" x 1.059" (16.2mm x 26.9mm)

Panel Thickness for Switches & Barriers: .039" ~ .157" (1.0 ~ 4.0mm) Panel Thickness for Protective Guards & Splash Covers: .039" ~ .138" (1.0 ~ 3.5mm)

HOUSING

Housing Colors Available:



Black



Gray

CONTACT MATERIALS, RATINGS & TERMINALS

G01

Silver Contacts

Gold Contacts

Logic Level

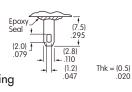
Complete explanation of operating range in Supplement section.

3A @ 125V AC & 250V AC

0.4VA max. @ 28V AC/DC max.

Solder Lug/Quick Connect

Optional PCB adaptors AT711 & AT712 available; illustrated in "Optional Accessories" immediately following



"Typical Switch Dimensions."

INCANDESCENT & NEON LAMP CODES & SPECIFICATIONS

AT607 & AT607N



T-1 Bi-pin

AT607 Incandesce 12-volt; AT607N N		05	12	01 *	
Voltage	٧	5V AC	12V AC	110V AC	
Current	I	115mA	60mA	1.5mA	
Endurance	Avg. Hours	10,0	000	10,000	
Ambient Temp. Range		−25°			

The electrical specifications shown are determined at a basic temperature of 25°C. Lamp circuit is isolated and requires external power source.

Recommended Resistors for Neon: 33K ohms for 110V AC; 100K ohms for 220V AC



Touch

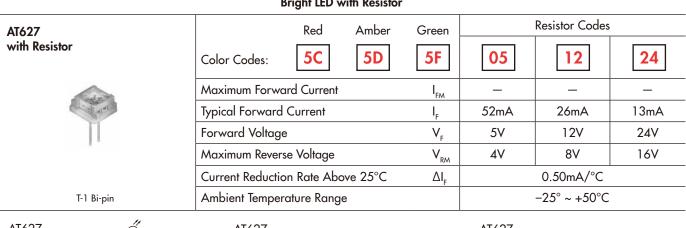
LED COLORS & SPECIFICATIONS

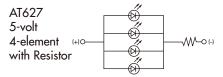
The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on the switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section. Additional lamp detail is shown in the Accessories & Hardware section.

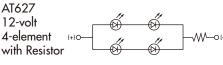
Bright LED without Resistor

Green Red Amber AT635 No Code No Resistor **5C** 5F Color Codes 5D LEDs are colored Red Amber Green in OFF state. Maximum Forward Current 30mA 30mA 30mA I_{FM} Typical Forward Current I_F 20mA 20mA 20mA Forward Voltage V_{F} 1.9V 2.0V 2.1V 5V Maximum Reverse Voltage 5V 5V V_{RM} (+)0 (1) Current Reduction Rate Above 25°C ΔI_{r} 0.42mA/°C −25° ~ +50°C Ambient Temperature Range T-11/2 Bi-pin

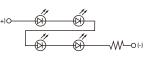
Bright LED with Resistor











Super Bright Single Element LED

AT625G Blue AT631B White AT632F Green





− Ø	, —0(-)
-1 Bi- _l	oin	

ATTENTION ELECTROSTATIC SENSITIVE DEVICES		6B	6F	6G
	Color	White	Green	Blue
Maximum Forward Current	I _{FM}	30mA	30mA	30mA
Typical Forward Current	I _F	20mA	20mA	20mA
Forward Voltage	V _F	3.3V	3.3V	3.3V
Maximum Reverse Voltage	V _{RM}	7V	7V	7V
Current Reduction Rate Above 25°C	$\Delta I_{_{\rm F}}$	0.40mA/°C	0.40mA/°C	0.40mA/°C
Ambient Temperature Range			−25° ~ +50°C	



(+)0-

No Lamp



CAP TYPES & COLOR COMBINATIONS

Color Codes: **B** White **D** Amber E Yellow J Clear C Red F Green G Blue

Solid Cap for Incandescent Lamp & Nonilluminated

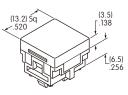
Lens/Filter **Colors Available:**



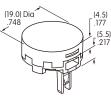




AT476 Square

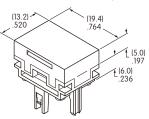


AT4012 Round



Material: Polycarbonate

AT4026 Rectangular



Translucent Colored Lens



Transparent Clear Filter



Lamp AT607

Insert Cap for Incandescent or Neon Lamp & Nonilluminated

Lens/Filter **Colors Available:**

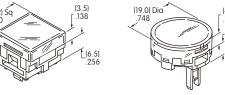






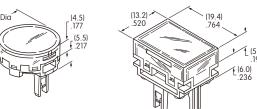


AT477 Square



AT4013 Round

Finish: Glossy



AT4027 Rectangular





Translucent Colored Filter

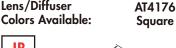


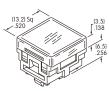
Lamp AT607 or 607N



Material: Polycarbonate Finish: Glossy

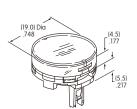
Lens/Diffuser



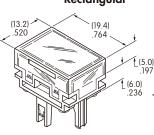


AT4178

Round



Cap for Bright LED without Resistor



AT4177 Rectangular







Bright LED AT635

Material: Polycarbonate

Finish: Glossy

Cap for Bright LED with Resistor

Lens/Diffuser **Colors Available:**



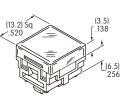
JD

JF





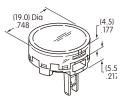




AT4162

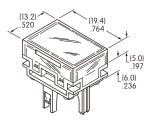
Square

AT4164 Round



Material: Polycarbonate





Finish: Glossy



Transparent Clear Lens



Translucent Colored Diffuser



Bright LED AT627



CAP TYPES & COLOR COMBINATIONS

E Yellow **Color Codes:** A Black **B** White C Red **D** Amber F Green G Blue **H** Gray J Clear

Cap for Super Bright LEDs



Material:

Polycarbonate

Finish: Glossy

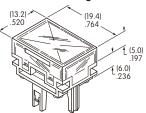




AT4129







AT4130

Rectangular



Transparent Clear Lens





LEDs AT625 AT631 AT632

Spot Illuminated Cap with LED

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires an external power source. Single color LEDs are colored in OFF state; bicolor LEDs are translucent white in OFF state. Polarity marks are on the switch. 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 section. Additional lamp detail is shown in the Accessories & Hardware section.

LED Specifications

	Single Color LED Bicolor LE with 1 Element with 2 Element			Bicolor		
LED factory assembled in Spot	with 1 Element with 2 Elemen	TS ○(-)	1C Red	1D Amber	1F Green	CF Red/Green
Illuminated Caps	Maximum Forward Current	I _{FM}	25mA	30mA	25mA	30/25mA
	Typical Forward Current	I _F	20mA	20mA	20mA	20mA
Not Available	Forward Voltage		2.25V	2.1V	2.2V	2.0/2.2V
Separately	Maximum Reverse Voltage	$V_{\scriptscriptstyle RM}$	5V	5V	5V	_
	Current Reduction Rate Above 25°C	$\Delta I_{_{F}}$	0.33mA/°C	0.40mA/°C	0.33mA/°C	0.43/0.38mA/°C
	Ambient Temperature Range	−25° ~ +70°C				

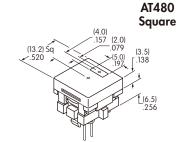
Cap Colors Available:

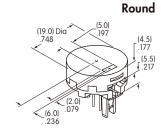












AT4016



Cap with Window



Factory Assembled LED; Not Available Separately

When ordering spot illuminated cap separately, LED color must be specified. Examples: AT480CA (red LED, black cap); AT4016CFB (red/green bicolored LED, white cap)

Cap for Nonilluminated

Cap Colors Available:

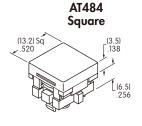




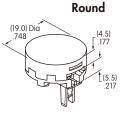






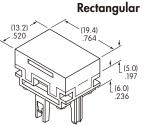


Material: Polycarbonate



AT4017





AT4030



No Lamp



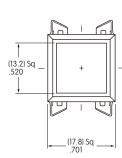
Accessories

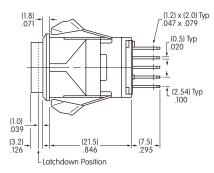
TYPICAL SWITCH DIMENSIONS

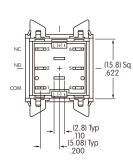
Square

Single & Double Pole









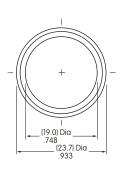
LB15SKW01-12-CJ

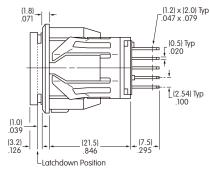
Single pole models do not have terminals 4, 5, & 6.

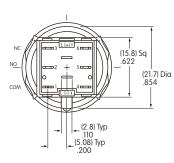
Round

Single & Double Pole









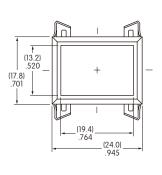
LB16CKW01-12-CJ

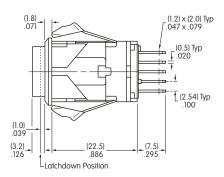
Single pole models do not have terminals 4, 5, & 6.

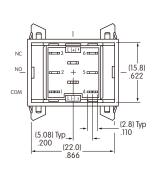
Rectangular

Single & Double Pole









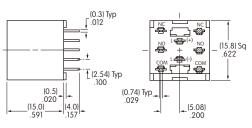
LB26RGW01-12-CJ

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

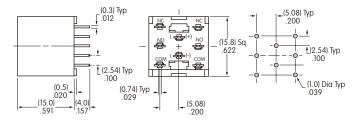
OPTIONAL ACCESSORIES

AT711 Single Pole • Straight PC Terminals

PCB Adaptors AT712







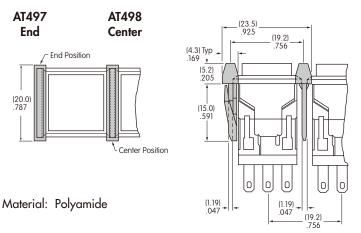
Double Pole • Straight PC Terminals

Note: Order adaptors separately.

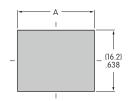


OPTIONAL ACCESSORIES

Barriers



Cutouts for More Than 1 Switch



<u>Square</u> A = .752'' (19.1mm) x Number of Switches + .051" (1.3mm) Rectangular

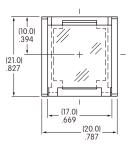
 $A = .996'' (25.3 \text{mm}) \times \text{Number of Switches} + .051'' (1.3 \text{mm})$

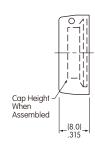
Protective Guard

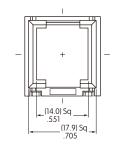
AT499 Square **Protective Guard**

Opens 90° Closes manually









Material: Polyamide

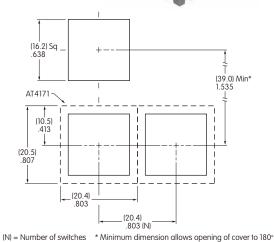
Protective Guards reduce depth of switch behind panel by .020" (0.5mm).

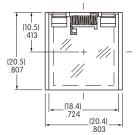
Spring Loaded Protective Guard

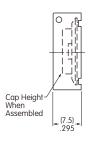


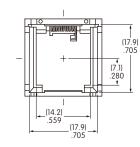
Opens 180° Closes automatically





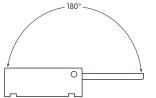






Materials:

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



Recommended Panel Thickness:

.039" ~ .106" (1.0mm ~ 2.7mm)



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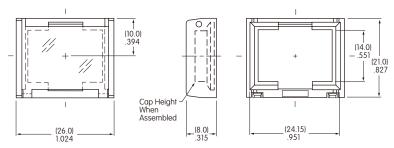
OPTIONAL ACCESSORIES

AT4057 Rectangular Protective Guard

Opens 90° Closes manually



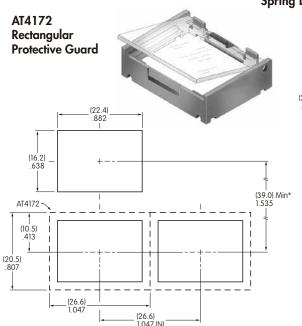
Protective Guard



Material: Polyamide

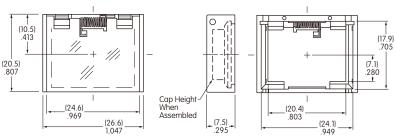
(N) = Number of switches

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



* Minimum dimension allows opening of cover to 180°



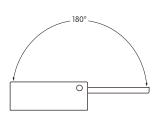


Opens 180° Closes automatically

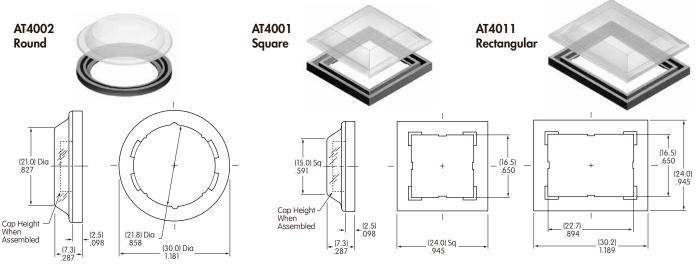
Materials:

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

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



Dust Covers



Materials: PVC with polyethylene gasket; PVC loses pliability below 0°C (32°F). Dust Covers reduce depth of switch behind panel by .020" (0.5mm).



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 1,000,000 operations minimum for momentary circuit

200,000 operations minimum for maintained circuit

100,000 operations minimum

Electrical Life: Nominal Operating Force:

Mechanical Life:

Contact Timing: Nonshorting (break-before-make)

Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm) Travel:

Materials & Finishes

Glass fiber reinforced polyamide (UL94V-0) Housing:

O-rina: Nitrile butadiene rubber

Inner Seal: Silicone rubber

Movable Contact: Silver alloy or copper with gold plating Silver alloy or copper with gold plating **Stationary Contacts:** Liquid crystal polymer (UL94V-0) Base:

Switch Terminals: Phosphor bronze with silver or gold plating

Lamp Terminals: Brass with silver plating

Environmental Data

-25°C through +50°C (-13°F through +122°F) for Illuminated **Operating Temperature Range:**

-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)

90 ~ 95% humidity for 96 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)

IP65 of IEC60529 standard (similar to NEMA 4 & 13) Sealing:

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

File No. E44145 - Recognized only when ordered with marking on switch.

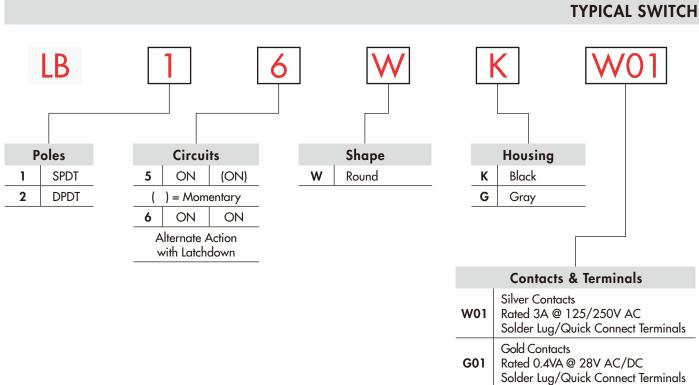
Add "/U" or "/CUL" before first dash in part number to order UL recognized switch. All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.

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.





IMPORTANT:



Switches are supplied without UL, cULus & CSA marking unless specified. UL, cULus & CSA recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on the General Specifications page.

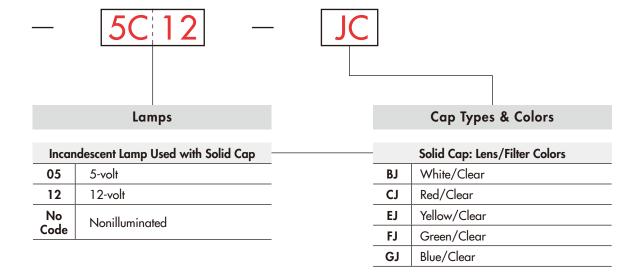
DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LB16WKW01-5C12-JC





ORDERING EXAMPLE



Incand	Incandescent or Neon Used with Insert Cap						
01 110-volt Neon							
05	5-volt Incandescent						
12 12-volt Incandescent							
No Code	Nonilluminated						

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.					

Bright LED Used with LED Cap							
(Colors	Re	esistor				
5C	Red	No Code	No Resistor				
5D	Amber	05	5-volt				
	Amber	12	12-volt				
5F	Green	24	24-volt				

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

Suj	Super Bright LED Used with LED Cap						
6B	White						
6F	Green						
6G	Blue						

LED Cap: Lens/Diffuser Colors Clear/White JB

Illuminated PB D

Programmable

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POLES & CIRCUITS									
Plunger Position () = Momentary							Throw & Switch/Lamp Sch	ematics	
Pole	Model	Normal	Down	Normal	Down	Notes: Switch is marked with NC, NO, COM, L+, L- Lamp circuit is isolated and requires external power source.			
SP	LB15 *LB16	ON ON	(ON) ON	1-3	1-2	SPDT	1 • COM 3 • NC 2 • NO	L (+) ●	
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	L (+) • (-) L	

^{*} When in latchdown position for the alternate circuit, cap position is .039" (1.0mm) above the built-in bezel.

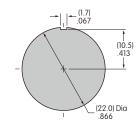
SHAPE & PANEL CUTOUT

.866" (22.0mm) Round

Recommended Panel Thickness: .039" ~ .157" (1.0mm ~ 4.0mm)

Recommended Panel Thickness with Splash Cover: .039" ~ .138" (1.0mm ~ 3.5mm)

Overtightening the mounting nut AT074 may damage the switch housing.



HOUSING

Housing Colors Available:



Black



Gray

CONTACT MATERIALS, RATINGS & TERMINALS

Silver Contacts

Power Level

3A @ 125V AC & 250V AC

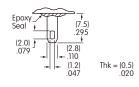
Solder Lug/Quick Connect

G01

Gold Contacts

Logic Level 0.4VA max. @ 28V AC/DC max.

Optional PCB adaptors AT711 & AT712 available; illustrated in previous snap-in subsection.



Complete explanation of operating range in Supplement section.

INCANDESCENT & NEON LAMP CODES & SPECIFICATIONS

AT607 & AT607N AT607 Incandescent 5-volt or 12-volt; AT607N Neon 110-volt 05 12 01 5V AC 12V AC 110V AC Voltage 115mA Current 60mA 1.5mA Endurance 10,000 10,000 Avg. Hours Ambient Temp. Range -25°C ~ +50°C T-1 Bi-pin

The electrical specifications shown are determined at a basic temperature of 25°C. Lamp circuit is isolated and requires external power source.

Recommended Resistors for Neon: 33K ohms for 110V AC; 100K ohms for 220V AC



LED COLORS & SPECIFICATIONS

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

LED circuit is isolated and requires external power source. Polarity marks are on the switch.

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

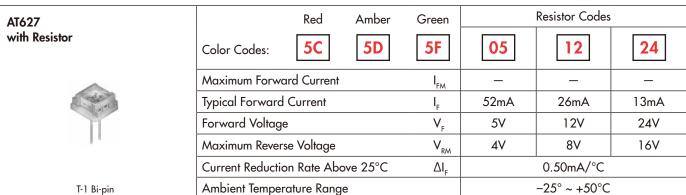
The resistor value can be calculated by using the formula in the Supplement section.

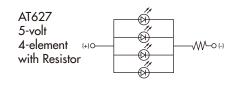
Additional lamp detail is shown in the Accessories & Hardware section.

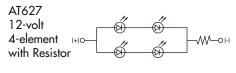
Bright LED without Resistor

AT635			Green	No Code No Resistor		
LEDs are colored	Color Codes 5C	5D	5F	Red	Amber	Green
in OFF state.	Maximum Forward Current	I _{FM}	30mA	30mA	30mA	
TF.	Typical Forward Current		I _F	20mA	20mA	20mA
6 t	Forward Voltage		V _F	1.9V	2.0V	2.1V
"	Maximum Reverse Voltage		$V_{_{RM}}$	5V	5V	5V
(+)O (-)	Current Reduction Rate Above 25°C		$\Delta I_{_{\rm F}}$		0.42mA/°C	
T-11/2 Bi-pin Ambient Temperature Range					−25° ~ +50°C	

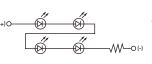
Bright LED with Resistor











Super Bright Single Element LED

AT625G Blue AT631B White AT632F Green







ATTENTION ELECTROSTATIC SENSITIVE DEVICES		6B	6 F	6 G
	Color	White	Green	Blue
Maximum Forward Current	I _{FM}	30mA	30mA	30mA
Typical Forward Current	I _F	20mA	20mA	20mA
Forward Voltage	V _F	3.3V	3.3V	3.3V
Maximum Reverse Voltage	V _{RM}	7V	7V	7V
Current Reduction Rate Above 25°C	ΔI_{F}	0.40mA/°C	0.40mA/°C	0.40mA/°C
Ambient Temperature Range		−25° ~ +50°C		



No Lamp



www.nkk.com D63

Togg

Rocker

B Pushbutt

Illuminated PB

Programmable

Keylock

Rotarie

Slide

_

Touch

Accessories

Supplement

CAP TYPES & COLOR COMBINATIONS

Color Codes: **B** White C Red **D** Amber E Yellow F Green **G** Blue J Clear

Solid Cap for Incandescent Lamp & Nonilluminated

Lens/Filter **Colors Available:**

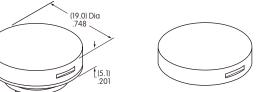


AT4054









Translucent Colored Lens



Transparent Clear Filter



Lamp AT607

Material: Polycarbonate Finish: Glossy

Insert Cap for Incandescent or Neon Lamp & Nonilluminated

Lens/Filter **Colors Available:**



AT4055

AT4179

AT4165







JF and JG not suitable with neon lamp.



Transparent



Clear Lens

Finish: Glossy



Translucent Colored Filter



Lamp

Lamp AT607N

Cap for Bright LED without Resistor

Material: Polycarbonate

Material: Polycarbonate

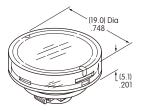
Lens/Diffuser **Colors Available:**











Transparent Clear Lens

Finish: Glossy



Translucent Colored Diffuser



Bright LED AT635

Cap for Bright LED with Resistor

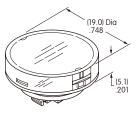
Lens/Diffuser **Colors Available:**













Transparent Clear Lens





Translucent Colored Diffuser



Bright LED AT627



D

Series LB

CAP TYPES & COLOR COMBINATIONS

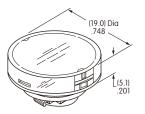
Cap for Super Bright LEDs

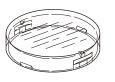


Clear Lens White Diffuser

Material: Polycarbonate Finish: Glossy

AT4131





Transparent Clear Lens



Translucent Colored Diffuser

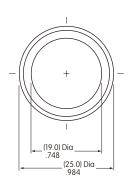


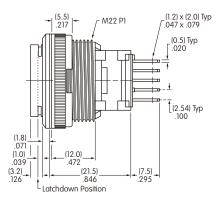
AT625 AT631 AT632

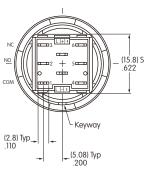
Panel Seal

TYPICAL SWITCH DIMENSIONS

Single & Double Pole









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

LB25WKW01-12-JC

OPTIONAL ACCESSORIES

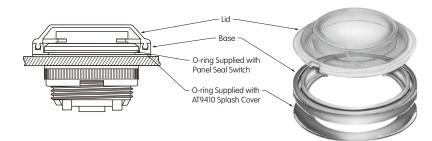
AT9410 Splash Cover for Panel Seal

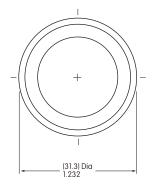
Materials:

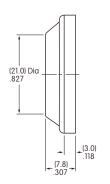
Lid: PVC (loses pliability below 0°C/32°F)

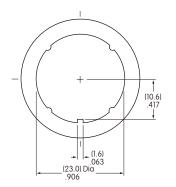
Base: Polyethylene O-ring: NBR

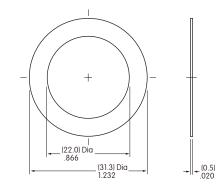
Recommended Panel Thickness: .039" ~ .138" (1.0mm ~ 3.5mm)













Incandescent & Neon Lamps

AT607 & AT607N

Align projections on lamp

with grooves (B) in holder

when inserting lamp. To

match the cut corners (A).

correctly join the lamp

holder and cap base,

ASSEMBLY INSTRUCTIONS

Lamp Installation & LED Orientation

Bright LED AT627

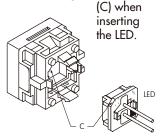
Panel Seal Models

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.



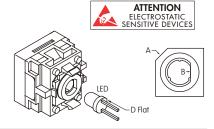
Snap-in Models

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

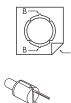


Bright & Super Bright LEDs AT625, AT631, AT632, AT635

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).



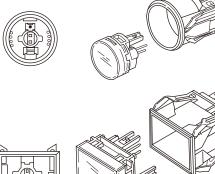


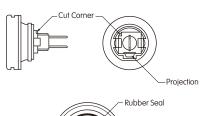


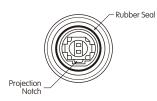
Switch & Cap Assembly

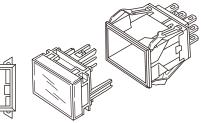
Round & Rectangular

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









Installation & Maintenance

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.

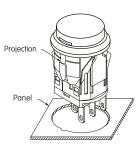


Match projection (C) on cap assembly with groove (C) inside switch. Lamp terminals will then be aligned correctly with lamp socket.

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 panel. Snap into panel cutout.



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.

Panel Seal

Bushing Mount

Overtightening mounting nut may damage the switch housing.

Panel Mounting Nut

Lamp Replacement

Actuator must be in UP position. Pull off cap with cap extractor

Replace lamp and reassemble as shown above.



AT109 Cap Extractor

AT112 Socket Wrench



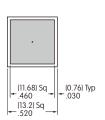
LEGENDS

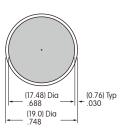
NKK Switches can provide custom legends for caps. Contact factory for more information.

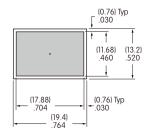
Suggested Printable Area for Lens

Recommended Methods: Laser Etch on clear lens, Screen Print, or Pad Print on lens. Epoxy based ink is recommended.









Shaded areas are printable areas.

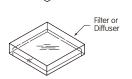
Suggested Printable Area for Film Insert

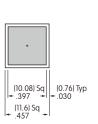
Recommended Print Method: Laser Print or Screen Print with Epoxy based ink

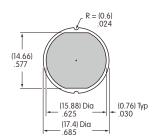


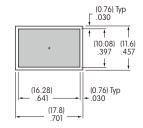
Film Insert: Clear Polyester, 4 mil max. thickness











Shaded areas are printable areas.