Rotaries

General Specifications

Electrical Capacity (Resistive Load)

3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC Power Level (silver):

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

200 megohms minimum @ 500V DC **Insulation Resistance:**

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)

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

Materials & Finishes

Housing: Glass fiber reinforced polyamide (UL94V-0)

Stainless steel **Snap-in Frame:**

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

-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)

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

Installation

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.

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.



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.

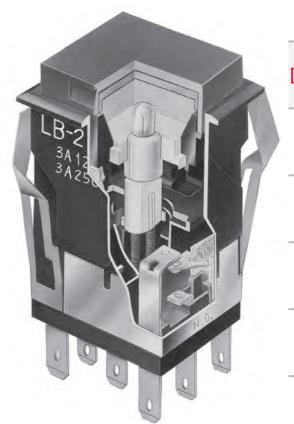
Snap-action contact mechanism gives long electrical life and sensitivity of actuation.

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

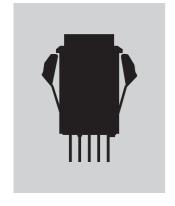
Panel sealed model meets IP65 of IEC60529 specifications (similar to NEMA 4 & 13).

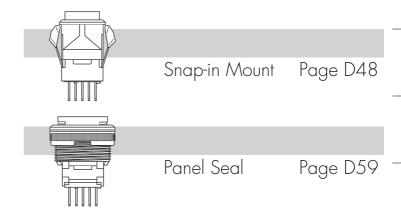
Compact switch design minimizes behind panel depth.

Matching indicators available.

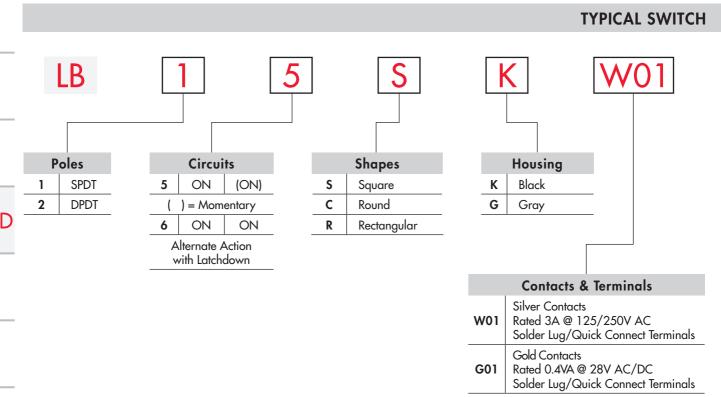


Actual Size





Touch



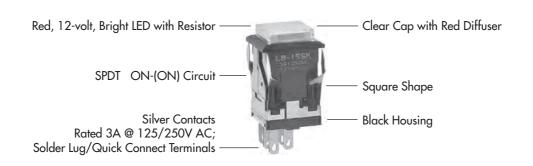
IMPORTANT:



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



POLI	POLES & CIRCUITS							
Connected	Terminals	Throw & Switch/Lamp Schematics						
Normal	Down	Notes: Switch is marked with NC, NO, COM, L+, L Lamp circuit is isolated and requires an						

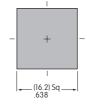
		() = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics		
Pole	Model	Normal	Down	Normal	Down	Notes:), COM, L+, L quires an	
SP	LB15 *LB16	ON ON	(ON) ON	1-3	1-2	SPDT	1 • COM 3 • NC 2 • NO	L (+) ● ── (-) L
DP	LB25 *LB26	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT	1 • COM 4 • COM 3 • NC 2 • NO 6 • NC 5 • NO	L (+) • (-) L

DOLES & CIDCUITS

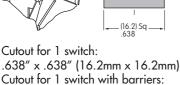
SHAPES & PANEL CUTOUTS

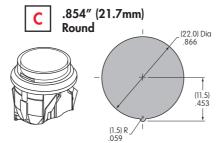
.622" (15.8mm) Square

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

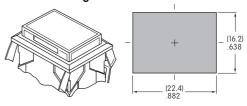


Plunger Position





.622" x .866" (15.8mm x 22.0mm) Rectangular



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

W01

Silver Contacts

Gold Contacts

Power Level

3A @ 125V AC & 250V AC

G01

Logic Level

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

Complete explanation of operating range in Supplement section.

Solder Lug/Quick Connect

Optional PCB adaptors AT711 & AT712 available; illustrated in "Optional Accessories" immediately following "Typical Switch Dimensions."



Thk = (0.5) .020

INCANDESCENT & NEON LAMP CODES & SPECIFICATIONS

AT607 & AT607N



AT607 Incandescent 5-volt or 12-volt; AT607N Neon 110-volt	05	12	01 *
Voltage V	5V AC	12V AC	110V AC
Current I	115mA	60mA	1.5mA
Endurance Avg. Hours	10,0	000	10,000
Ambient Temp. Range	−25°	C ~ +50°C	

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



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

LED COLORS & SPECIFICATIONS

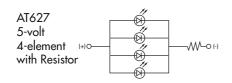
The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on the switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using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

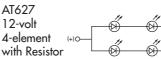
Bright LED without Resistor

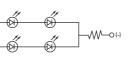
AT635		Red Amber			No Code No Resistor		
LEDs are colored in OFF state.	Color Codes	5C	5D	5F	Red	Amber	Green
III OTT sidle.	Maximum Forward	d Current		I _{FM}	30mA	30mA	30mA
	Typical Forward C	Typical Forward Current			20mA	20mA	20mA
Forward Voltage				V _F	1.9V	2.0V	2.1V
11	Maximum Reverse	Maximum Reverse Voltage			5V	5V	5V
(+) (-)	Current Reduction	Current Reduction Rate Above 25°C			0.42mA/°C		
T-11/2 Bi-pin Ambient Temperatur			,			−25° ~ +50°C	

Bright LED with Resistor

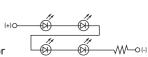
Resistor Codes Red Amber Green AT627 with Resistor 5F **5C** 5D 05 12 24 Color Codes: Maximum Forward Current I_{FM} Typical Forward Current 52mA 26mA 13_mA I_F ٧, 12V Forward Voltage 5V 24V Maximum Reverse Voltage V_{RM} 4V 8V 16V 0.50mA/°C Current Reduction Rate Above 25°C ΔI_{r} -25° ~ +50°C T-1 Bi-pin Ambient Temperature Range











6G

Blue

30_mA

20mA

3.3V

7V

0.40mA/°C

Super Bright Single Element LED

AT625G Blue **ATTENTION** 6F 6B ELECTROSTATIC SENSITIVE DEVICES AT631B White AT632F Green White Color Green Maximum Forward Current I_{FM} 30mA 30mA Typical Forward Current I_F 20mA 20mA $V_{\scriptscriptstyle F}$ 3.3V 3.3V Forward Voltage V_{RM} Maximum Reverse Voltage **7**V 7V ΔI_{r} 0.40mA/°C 0.40mA/°C Current Reduction Rate Above 25°C T-1 Bi-pin -25° ~ +50°C Ambient Temperature Range



No Lamp

Slides

JF and JG not suitable

with neon lamp.

Lens/Diffuser

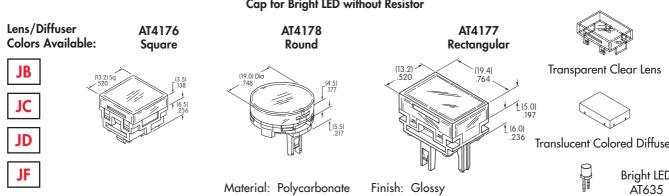
JB

JC

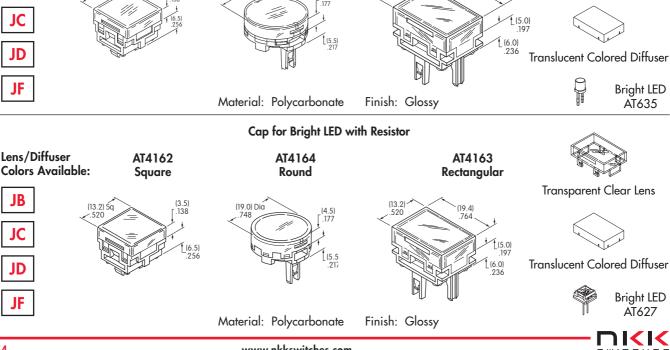
JD

CAP TYPES & COLOR COMBINATIONS Color Codes: B White C Red **D** Amber E Yellow F Green J Clear **G** Blue Solid Cap for Incandescent Lamp & Nonilluminated Lens/Filter AT4012 AT476 AT4026 **Colors Available:** Square Round Rectangular Translucent Colored Lens (19.0) Dia (13.2)(13.2) Sq .520 Transparent Clear Filter Material: Polycarbonate Finish: Glossy Lamp AT607 Insert Cap for Incandescent or Neon Lamp & Nonilluminated Lens/Filter **AT477** AT4013 AT4027 **Colors Available:** Round Rectangular Square Transparent Clear Lens (13.2) (19.0) Dia (13.2) So .520





Material: Polycarbonate



Finish: Glossy

Translucent Colored Filter

Lamp AT607 or 607N

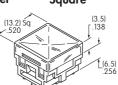
CAP TYPES & COLOR COMBINATIONS

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



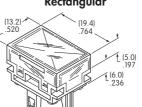
Finish: Glossy







AT4130 Rectangular





Transparent Clear Lens



Translucent White Diffuser



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 LED with 1 Element with 2 Elemen			Single Color		Bicolor
LED factory assembled in Spot	(+)0—(+)0—(+)0—(+)0—(+)0—(+)0—(+)0—(+)0—	—o(-)	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	$V_{_{\rm F}}$	2.25V	2.1V	2.2V	2.0/2.2V
Separately	Maximum Reverse Voltage	$V_{_{RM}}$	5V	5V	5V	_
	Current Reduction Rate Above 25°C	$\Delta I_{_{\rm F}}$	0.33mA/°C	0.40mA/°C	0.33mA/°C	0.43/0.38mA/°C
	Ambient Temperature Range			-25°	° ~ +70°C	

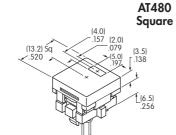
Cap Colors Available:

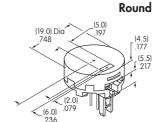












AT4016



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:

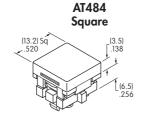




Н



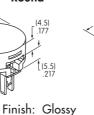


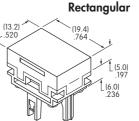


Material: Polycarbonate

Round (19.0) Dia

AT4017





AT4030



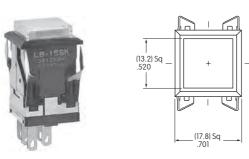
No Lamp



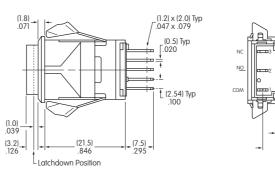
Slides

TYPICAL SWITCH DIMENSIONS

Square



Single & Double Pole



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

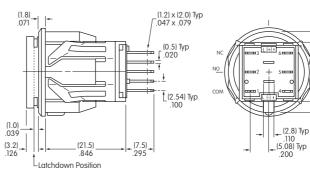
LB15SKW01-12-CJ

Round



Single & Double Pole

Single & Double Pole

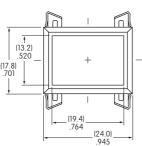


LB16CKW01-12-CJ

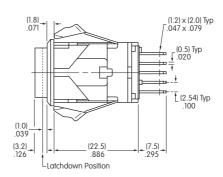
Single pole models do not have terminals 4, 5, & 6.

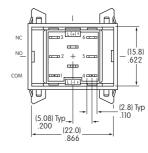
Rectangular





(19.0) Dia .748





(15.8) Sq .622

(21.7) Dia .854

LB26RGW01-12-CJ

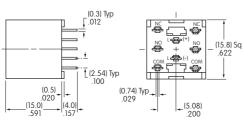
Single pole models do not have terminals 4, 5, & 6.

OPTIONAL ACCESSORIES

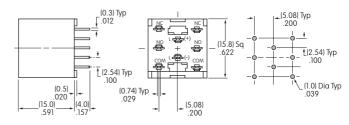
PCB Adaptors

AT712

Single Pole • Straight PC Terminals AT711







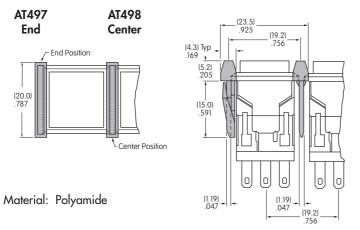
Double Pole • Straight PC Terminals

Note: Order adaptors separately.

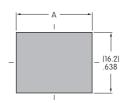


OPTIONAL ACCESSORIES

Barriers



Cutouts for More Than 1 Switch



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

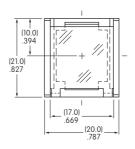
A = .996'' (25.3mm) x Number of Switches + .051'' (1.3mm)

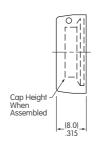
Protective Guard

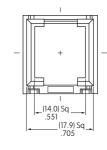
AT499 Square **Protective Guard**

Opens 90° Closes manually









Material: Polyamide

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

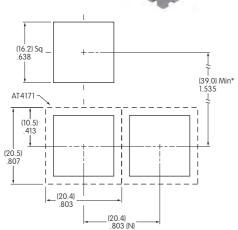
Spring Loaded Protective Guard

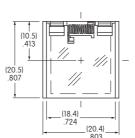


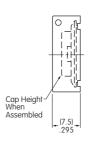
Opens 180° Closes automatically

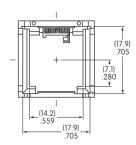


* Minimum dimension allows opening of cover to 180°



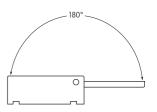






Materials:

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



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

(N) = Number of switches

Rotaries

Ė

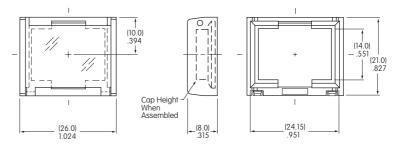
OPTIONAL ACCESSORIES

AT4057 Rectangular **Protective Guard**

Opens 90° Closes manually



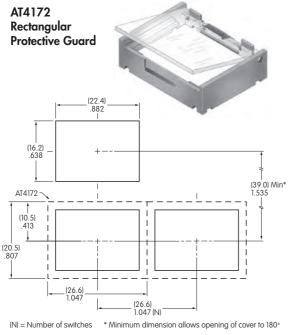
Protective Guard

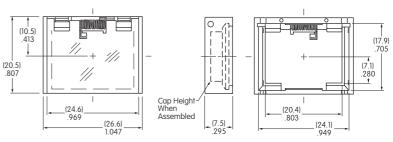


Material: Polyamide

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

Spring Loaded Protective Guard



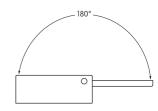


Opens 180° Closes automatically

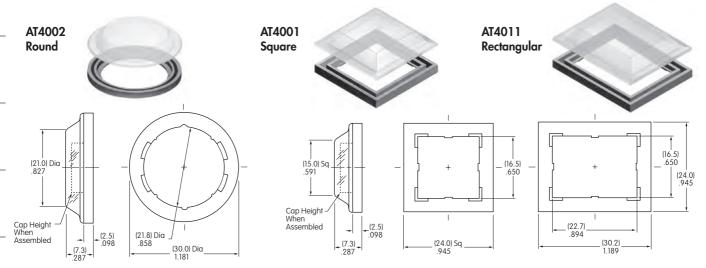
Materials:

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

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



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

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

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

5.39N **Nominal Operating Force:**

> **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:

Nitrile butadiene rubber O-ring:

Silicone rubber Inner Seal:

Movable Contact: Silver alloy or copper with gold plating Silver alloy or copper with gold plating **Stationary Contacts:** 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)

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/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

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

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.

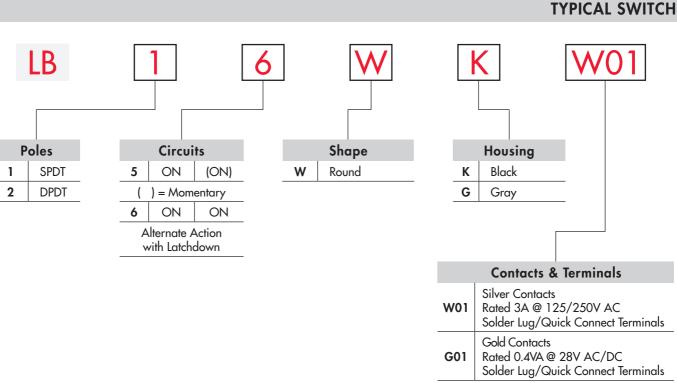
Add "/U" or "/CUL" before first dash in part number to order UL recognized switch. All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.

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.

2



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.

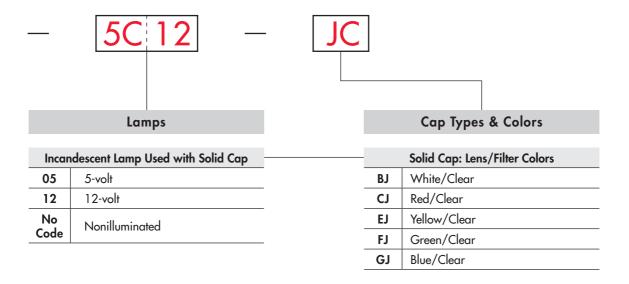
DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LB16WKW01-5C12-JC





ORDERING EXAMPLE



ncando	escent 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	1 Commonmenta	*JG	Clear/Blue		
			* JF & JG not suitable with neon.		

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

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

Indicators

	POLES & CIRCUITS								
Plunger Position () = Momentary Connected Terminals						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.

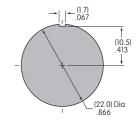
SHAPE & PANEL CUTOUT

.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

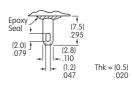
Solder Lug/Quick Connect

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

-25°C ~ +50°C

AT607 & AT607N AT607 Incandescent 5-volt or 05 12 01 12-volt; AT607N Neon 110-volt 5V AC 12V AC 110V AC Voltage I Current 115mA 60mA 1.5mA 10,000 Endurance 10,000 Avg. Hours

Ambient Temp. Range

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



T-1 Bi-pin

LED COLORS & SPECIFICATIONS

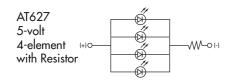
The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on the switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using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

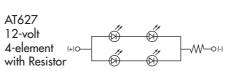
Bright LED without Resistor

AT635	Red Amber		No Code No Resistor		
LEDs are colored	Color Codes 30	5F	Red	Amber	Green
in OFF state.	Maximum Forward Current	I _{FM}	30mA	30mA	30mA
77	Typical Forward Current	I _F	20mA	20mA	20mA
b.c.	Forward Voltage	$V_{\rm F}$	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-1½ Bi-pin	Ambient Temperature Range			−25° ~ +50°C	

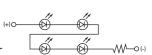
Bright LED with Resistor

Resistor Codes Red Amber Green AT627 with Resistor 5D 5F 05 24 12 Color Codes: Maximum Forward Current I_{FM} Typical Forward Current ľ 52mA 26mA 13mA V_{F} 5V 12V Forward Voltage 24V Maximum Reverse Voltage V_{RM} 8V 16V Current Reduction Rate Above 25°C 0.50mA/°C ΔI_{r} -25° ~ +50°C Ambient Temperature Range T-1 Bi-pin

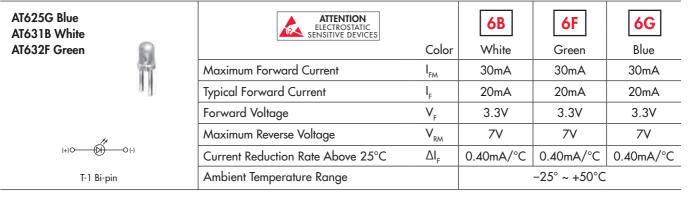








Super Bright Single Element LED





No Lamp

CAP TYPES & COLOR COMBINATIONS

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

Solid Cap for Incandescent Lamp & Nonilluminated

Lens/Filter **Colors Available:**



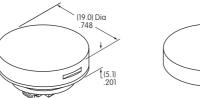


AT4054









Translucent Colored Lens



Transparent Clear Filter



Lamp AT607

Material: Polycarbonate Finish: Glossy

Insert Cap for Incandescent or Neon Lamp & Nonilluminated

Lens/Filter **Colors Available:**















Lamp AT607

JE

JF and JG not suitable with neon lamp.

Transparent Clear Lens

Finish: Glossy Material: Polycarbonate

Translucent Colored Filter

Lamp AT607N

Cap for Bright LED without Resistor

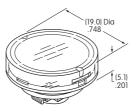
Lens/Diffuser **Colors Available:**













Transparent Clear Lens







Bright LED AT635

Material: Polycarbonate Finish: Glossy

Cap for Bright LED with Resistor

Lens/Diffuser **Colors Available:**



AT4165

AT4179





Finish: Glossy

Transparent Translucent Clear Lens



Colored Diffuser

Bright LED AT627









CAP TYPES & COLOR COMBINATIONS

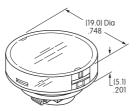
Cap for Super Bright LEDs

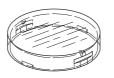


Clear Lens White Diffuser

Material: Polycarbonate Finish: Glossy

AT4131









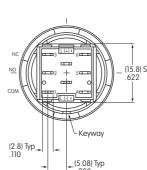
Translucent Colored Diffuser



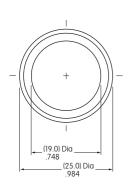
LEDs AT625 AT631 AT632

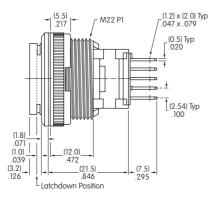
TYPICAL SWITCH DIMENSIONS

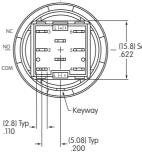
Single & Double Pole













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

LB25WKW01-12-JC

OPTIONAL ACCESSORIES

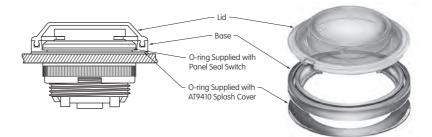
AT9410 Splash Cover for Panel Seal

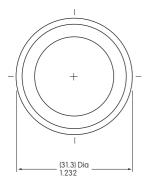
Materials:

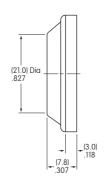
Lid: PVC (loses pliability below 0°C/32°F)

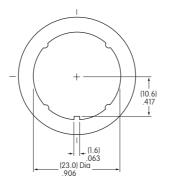
Base: Polyethylene O-ring: ŃBR

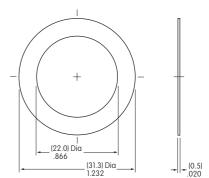
Recommended Panel Thickness: .039" ~ .138" (1.0mm ~ 3.5mm)











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,

Touch

Ė

ASSEMBLY INSTRUCTIONS

Lamp Installation & LED Orientation

Bright LED AT627

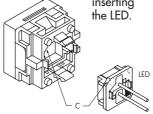
Panel Seal Models

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.



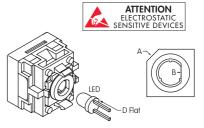
For snap-in models, Bright LED must be inserted into the cap first. Align cut corners

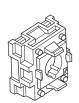
(C) when inserting the LED.

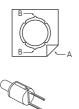


Bright & Super Bright LEDs AT625, AT631, AT632, AT635

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).





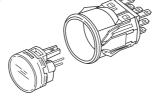


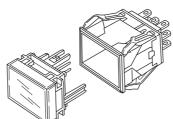
Switch & Cap Assembly

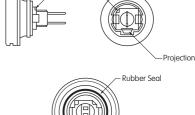
Round & Rectangular

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







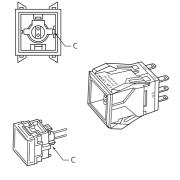


Cut Corner



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.



Square

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

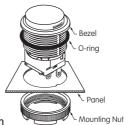
Panel

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.



Lamp Replacement

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

Replace lamp and reassemble as shown above.







Socket Wrench

D66

in place.

To mount round

the antirotation Projection

switch, match

projection on

switch with

guide cut in

panel. Snap into panel

cutout.

LEGENDS

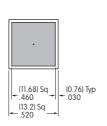
NKK Switches can provide custom legends for caps. Contact factory for more information.

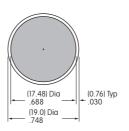
Suggested Printable Area for Lens

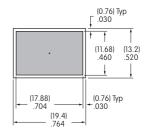
Recommended Methods: Laser Etch on clear lens, Screen Print, or Pad Print on lens.

Epoxy based ink is recommended.





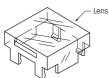




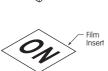
Shaded areas are printable areas.

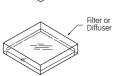
Suggested Printable Area for Film Insert

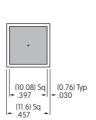
Recommended Print Method: Laser Print or Screen Print with Epoxy based ink

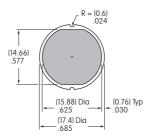


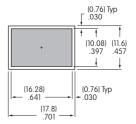
Film Insert: Clear Polyester, 4 mil max. thickness











Shaded areas are printable areas.