

Distinctive Characteristics

Full face or spot illumination with incandescent lamps or multi-element LEDs, with or without resistors.

Choice of super bright LEDs in white, green, and blue as well as bright LEDs in red, amber, and green.

Combination bezel-barrier is an integral part of the switch and prevents accidental actuation.

Unique thermoplastic elastomer seal inside caps plus rolled sleeve of nitrile butadiene rubber at joining of housing and inner case, all for added protection to interior mechanism.

Dust and oil tight as well as splashproof panel seal models qualify to IP65 of IEC60529 Standards (similar to NEMA 4 and 13). Panel seal models provided with exterior o-ring.

Distinctive design of snap-action contacts for shock resistance, long life, and sensitive actuation.

High density design to give behind panel depth of less than one inch.

Terminals are epoxy sealed to lock out flux, dust, solvents, and other contaminants.

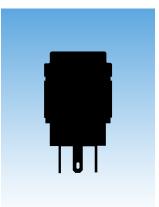
Latchdown for indication of circuit status, plus audible, tactile feedback with smooth, responsive operation.

Nonilluminated models available and shown in the Pushbutton section.

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



Actual Size





General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver):	3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC
Logic Level (gold):	0.4VA maximum @ 28V AC/DC maximum
	(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
	Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance:	50 milliohms maximum for silver; 100 milliohms maximum for gold
Insulation Resistance:	200 megohms minimum @ 500V DC
Dielectric Strength:	1,000V AC minimum between contacts for 1 minute minimum;
	1,500V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	1,000,000 operations minimum for momentary circuit
	200,000 operations minimum for maintained circuit
Electrical Life:	100,000 operations minimum
Nominal Operating Force:	Single pole: 1.47N for nonsealed; 1.67N for sealed
	Double pole: 2.75N for nonsealed; 2.94N for sealed
Contact Timing:	Nonshorting (break-before-make)
Travel:	Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing/Bezel:	Glass fiber reinforced polyamide (UL94V-0)
Snap-in Frame:	Stainless steel
Base:	Diallyl phthalate resin (UL94V-0)
Movable Contactor:	Phosphor bronze with silver or gold plating
Movable Contacts:	Silver alloy with silver plating or brass with gold plating
Stationary Contacts:	Silver alloy or copper with gold plating
Switch Terminals:	Phosphor bronze with tin plating
Lamp Terminals:	Phosphor bronze with tin plating

Environmental Data

Operating Temp Range:	–25°C through +50°C (–13°F through +122°F)
Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning
	in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP65 of IEC60529 standard for panel seal models

Installation

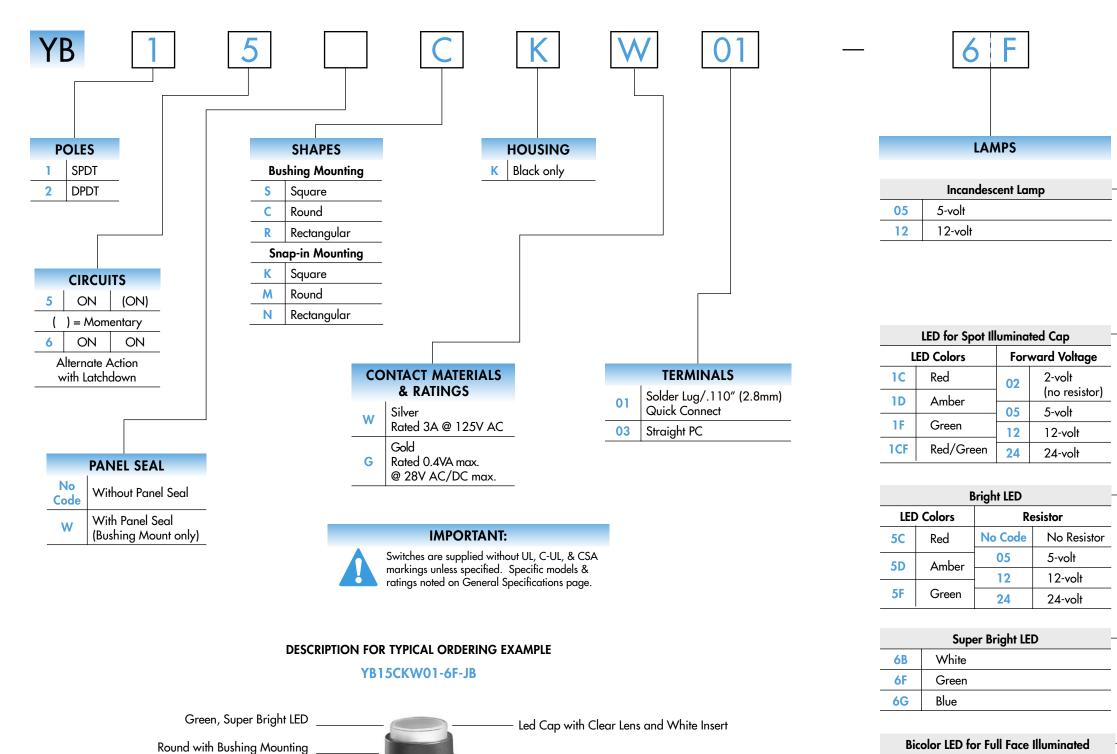
Mounting Torque:	.80Nm (7.08 lb•in) maximum		
Soldering Time & Temperature:	Manual Soldering: See Profile A in Supplement section.		

Standards & Certifications

LR _o	Flammability Standards: UL & C-UL Recognized:
C [®]	C C
SF:	CSA Certified:

UL94V-0 housing & base All solder lug models recognized at 3A @ 125/250V 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; UL File No. WOYR8.E44145; add "/C-UL" to end of part number to order C-UL mark on switch. All solder lug models certified at 3A @ 125/250V 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.





Without Panel Seal

Silver Contacts with 3 Amp Rating

Solder Lug/.110" (2.8mm)

Quick Connect Terminals

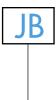
TYPICAL SWITCH ORDERING EXAMPLE

Black Housing

Y B - 15

SPDT ON-(ON) Circuit

Short Body Pushbuttons Series YB



CAP TYPES & COLORS

Solid Cap: Lens/Insert Colors				
BB	White/White			
СВ	Red/White			
EB	Yellow/White			
FB	Green/White			
GB	Blue/White			

Spot Illuminated Cap: Lens/Insert Colors				
JA	Clear/Black			
JB	Clear/White			
JC	Clear/Red			
JE	Clear/Yellow			
JF	Clear/Green			

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

	LED Cap: Lens/Insert Colors
JB	Clear/White

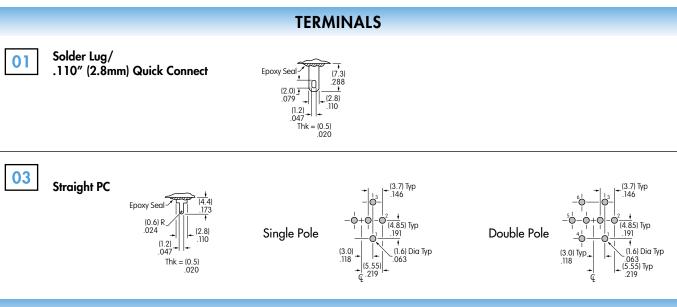
LED Cap: Lens/Insert Colors				
JB	Clear/White			



POLES & CIRCUITS								
		Plunger () = Mo	Position	Connected	Terminals	Throw & Switch/Lamp Schematics		
Pole	Model	Normal Down Normal Down		Down	Notes: Switch is marked with NC, NO, COM, L+, L–. Lamp circuit is isolated and requires external power source.			
SP	YB15 *YB16	ON ON	(ON) ON	1-3	1-2	SPDT	1 (COM) 3 ● 2	L (+) • • • (-) L
DP	YB25 *YB26	N N O	(ON) ON	1-3 4-6	1-2 4-5	DPDT	● 1 (COM) 4 ● ● 2 6 ●	L (+) ●● (-) L 5
	* Whe	en in latchdow	n position fo	r the alternate o	circuit, cap po	sition is .020″	(0.5mm) above the bu	ilt-in bezel.
				P	ANEL SEA	NL		
No	Code	Without Pane	l Seal				With Panel See	al
Bushiı Moun				Snap-in Mounting			Bushing Mounting only	
	ied with ing nut.						Supplied with mounting nut and o-ring AT089.	
				SHAPES &		NG TYPES	;	
		Bushing	Mounting		_		Snap-in Mounting	
S	Square	C Ro	und R	Rectangul	ar 🔤	K Square	M Round	N Rectangular
			Bez	rel-barrier is an	n integral part	of the switch b	ody.	
HOUSING								
Black Housing available in black only. The 1-piece body and bezel-barrier have a matte finish.								
CONTACT MATERIALS & RATINGS								
W	Silver Co	ntacts	I	Power Level		3A @	125/250V AC	
G	Gold Con	Contacts Logic Level 0.4VA max. @ 28V AC/DC max.					max.	
			Complete	explanation of	operating ran	ge in Supplem	ent section.	



Incandescent Lamp AT611

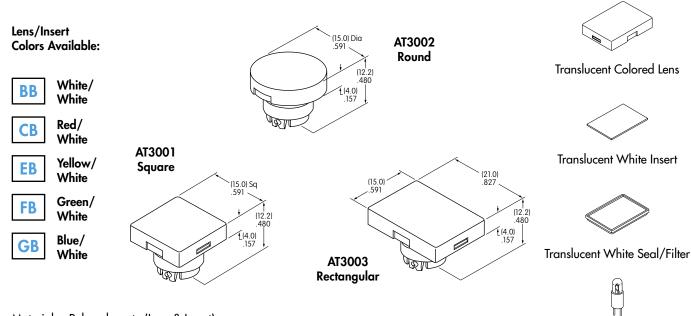


INCANDESCENT LAMP & SOLID CAP

Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. For dimension drawing of lamp see the Accessories & Hardware section.

AT611			05	12	
Q	Voltage	V	5V AC	12V AC	
	Current	I	115mA	60mA	
	MSCP		.150	.150	
.1	Endurance	Hours	7,000 average		
<u>T-1 Bi-pin</u>	Ambient Temperature Range		−25°C ~ +50°C		

Solid Cap for Incandescent Lamp

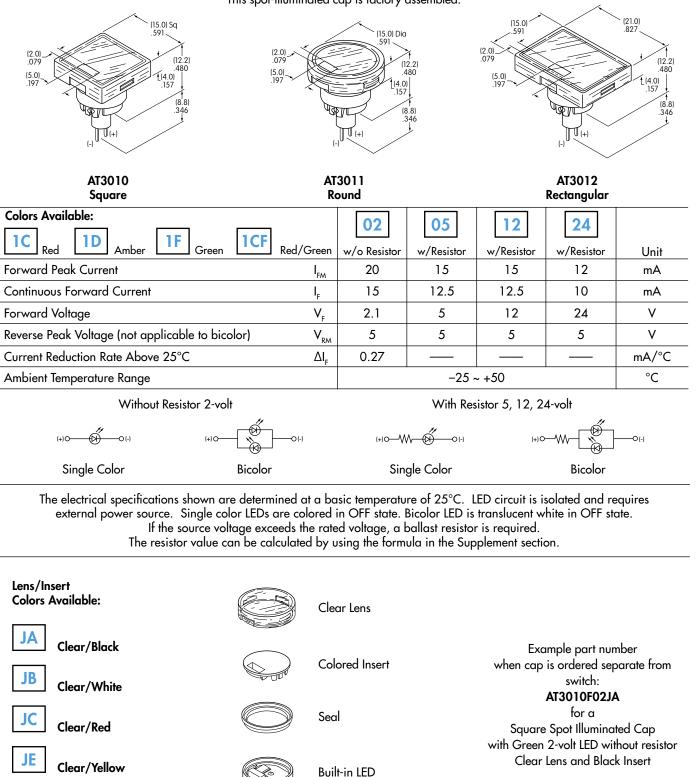


Materials: Polycarbonate (Lens & Insert) Thermoplastic Elastomer (Seal/Filter)



SPOT ILLUMINATED CAP WITH BUILT-IN LED

This spot-illuminated cap is factory assembled.



(integral part

of the cap)

Materials: Polycarbonate (Lens & Insert) and Thermoplastic Elastomer (Seal)

JF

Clear/Green

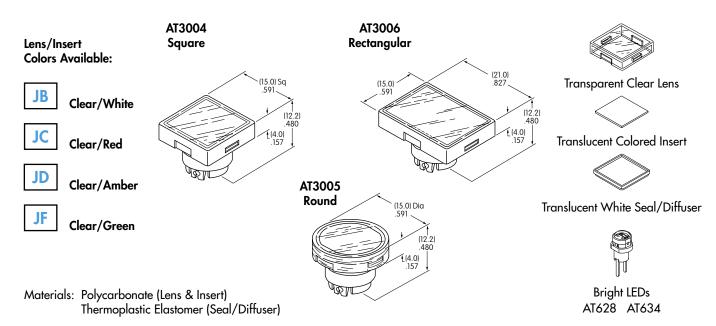


BRIGHT LED & LED CAPS

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

	Electrical Specifications f	or Bright LED v	vithout Resist	or			
Bright AT628	Colors Available:5C Red5D Amber	5F Green	No Code No Resistor			Unit	
0		LED Colors	Red	Amber	Green		
T.	Forward Peak Current	I _{FM}	40	40	40	mA	
	Continuous Forward Current	l _e	26	26	26	mA	
	Forward Voltage	V _F	1.9	2.0	2.2	V	
	Reverse Peak Voltage	V_{RM}	4	4	4	V	
-	Current Reduction Rate Above 25°C	ΔI _F		0.50		mA/°C	
T-1 Bi-pin	Ambient Temperature Range		-25 ~ +50		°C		
Electrical Specifications for Bright LED with Resistor							
Bright AT634	Colors Available: 5C Red 5D Amber	5F Green	05	12	24	Unit	
A1054	Forward Peak Current	I _{FM}	—	-	—	mA	
	Continuous Forward Current	I _F	25	20	10	mA	
	Forward Voltage	V _F	5	12	24	V	
	Reverse Peak Voltage	V_{RM}	4	8	16	V	
T-1¼ Bi-pin	Current Reduction Rate Above 25°C	ΔI _F				mA/°C	
	Ambient Temperature Range		-25 ~ +50 °C			°C	
AT634 5-volt, 2-element with Resistor	AT634 12-volt, 4-element with Resistor	Ö Ö Ö Ö	-0 ⁽⁻⁾ 24-e	634 -volt, ^{(+)0—W} element h Resistor	v®	€ €	

Cap for Bright LED





SUPER BRIGHT LED & LED CAPS

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

Electrical Specifications for Super Bright LED

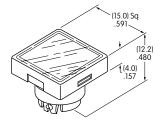
Super Bright AT625G Blue AT631B White AT632F Green	Attention Electrostatic Sensitive Devices (+)0-0(-)	Colors:	6B White	6F Green	6G Blue	Unit
	Forward Peak Current	I _{FM}	30	30	30	mA
	Continuous Forward Current	I _F	20	20	20	mA
	Forward Voltage	V _F	3.6	3.5	3.6	V
	Reverse Peak Voltage	V _{RM}	5	5	5	V
	Current Reduction Rate Above 25°C	ΔI_{F}		0.50		mA/°C
T-1 Bi-pin	Ambient Temperature Range			-25 ~ +50		°C

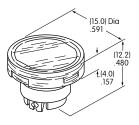
Cap for Super Bright LED

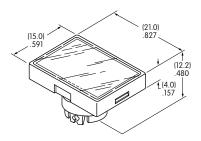
AT3014 Square



AT3016 Rectangular









Transparent Clear Lens

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Translucent White Insert

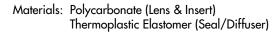
Translucent White Seal/Diffuser

Super Bright LEDs AT625 AT631 AT632

Lens/Insert Colors Available:

JB

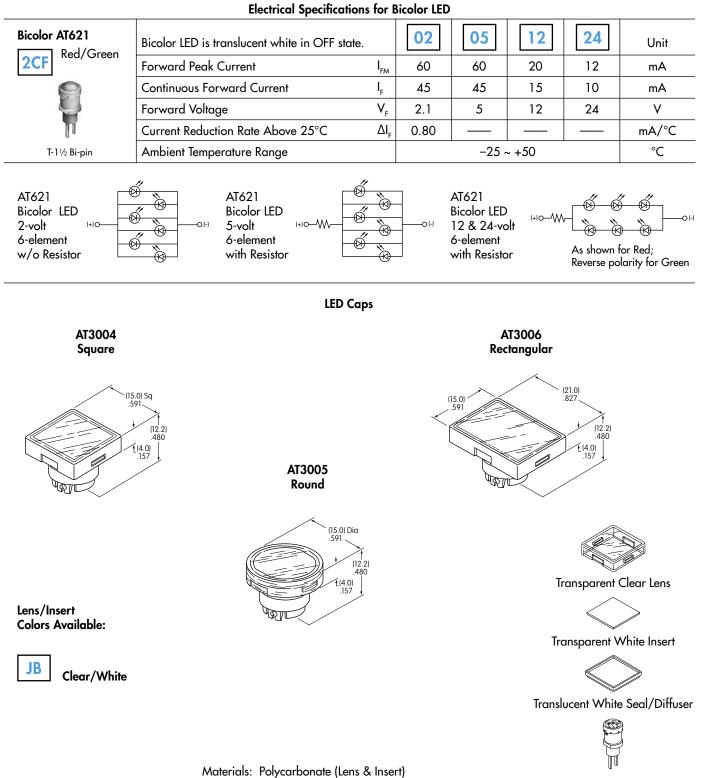
Clear/White





BICOLOR LED & LED CAPS

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



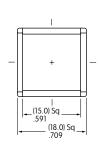
aterials: Polycarbonate (Lens & Insert) Thermoplastic Elastomer (Seal/Diffuser)

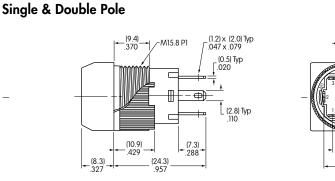
Bicolor LED AT621

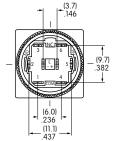


TYPICAL SWITCH DIMENSIONS

Square • Bushing Mounting



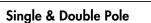


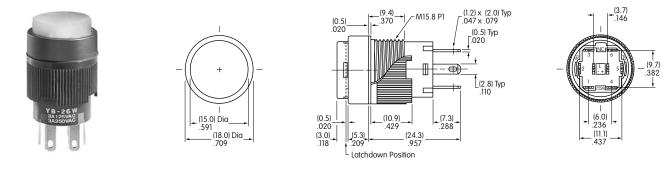


Single pole models do not have terminals 4, 5, & 6.

YB15SKW01-12-CB

Round • Panel Seal

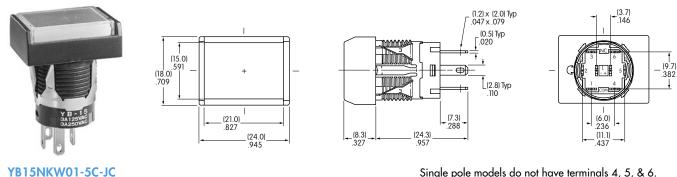




YB26WCKW01-12-EB

Rectangular • Snap-in Mounting

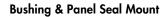
Single & Double Pole



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

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

PANEL THICKNESS & CUTOUTS



Snap-in Mount

