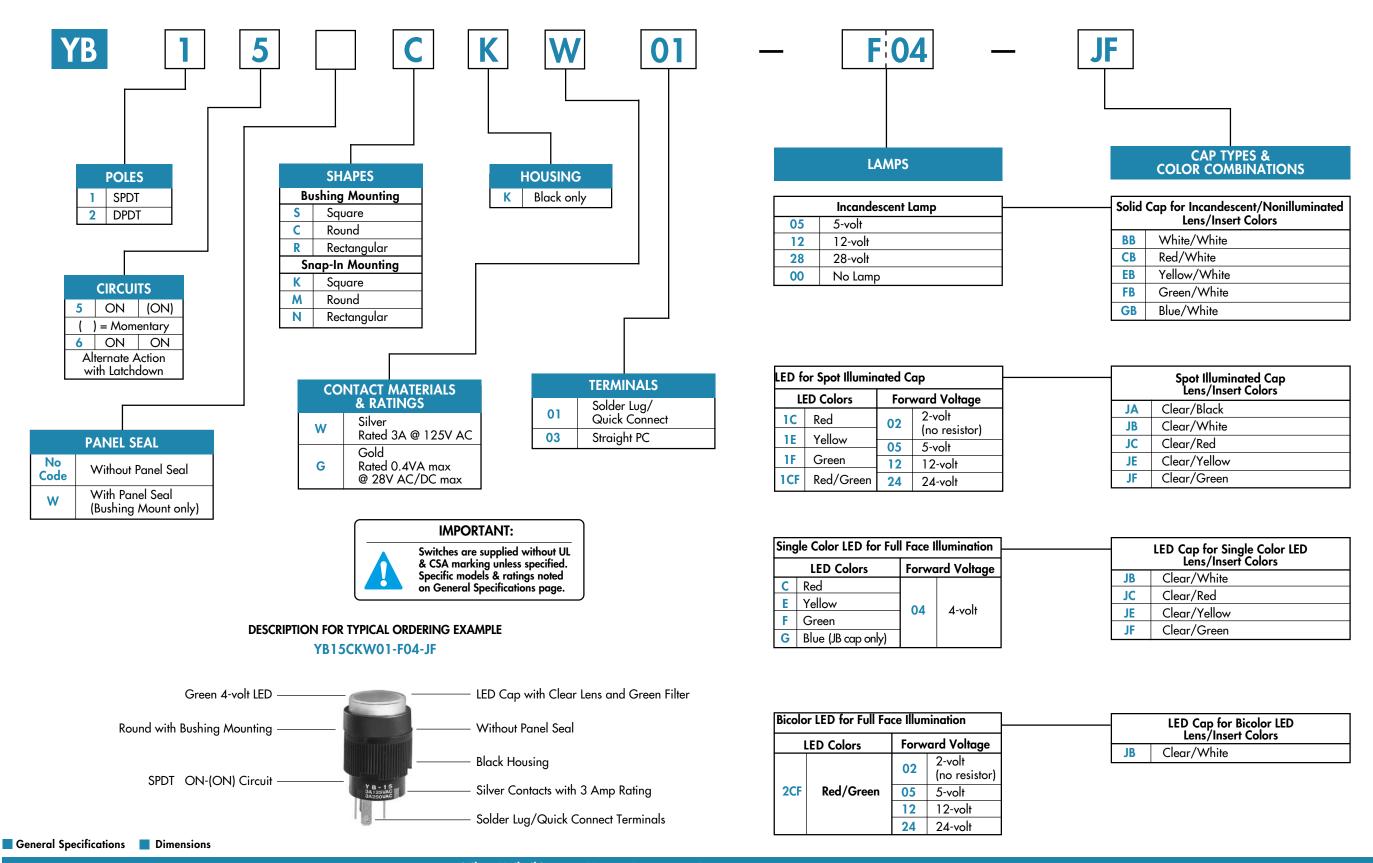


TYPICAL SWITCH ORDERING EXAMPLE





GENERAL SPECIFICATIONS

Electrical Capacity (Resistive Load)

Power Level:3A @ 125V AC or 3A @ 250V AC or 3 A @ 30V DCLogic Level:0.4VA maximum @ 28V AC/DC maximumNote:See Supplement Index to find explanation of operating range.

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; 1,500V AC minimum between contacts & case
Mechanical Life:	1,000,000 operations minimum for momentary action
	200,000 operations minimum for alternate action
Electrical Life:	100,000 operations minimum
Nominal Operating Force:	Single pole: 150 grams for nonsealed; 170 grams for sealed
	Double pole: 280 grams for nonsealed; 300 grams for sealed
Contact Timing:	Nonshorting (break-before-make)
Travel:	1.5mm (.059") pretravel; 1.5mm (.059") overtravel; 3.0mm (.118") total travel

Materials & Finishes

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

Environmental Data

Operating Temp Range:	-25°C through +50°C (-13°F through +122°F) for Illuminated
	-25°C through +70°C (-13°F through +158°F) for Nonilluminated
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 acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP65 of IEC529 standard for panel seal models

Installation

Mounting Torque:	8.16 kg/cm (7.08 lb/in) downward force on actuator
Soldering Time & Temperature:	3 seconds @ 350°C
Process Seal:	Not available

Standards & Certifications

Flammability Standards:	UL94V-0 housing & base
UL Recognized:	All solder lug models recognized at 3A @ 125/250V AC or
	0.4VA maximum @ 28V AC/DC maximum; UL File No. E44145
CSA Certified:	All solder lug models recognized at 3A @ 125/250V AC or
	0.4VA maximum @ 28V AC/DC maximum; CSA File No. LR23535



Series YB

Short Body Pushbutton Switches

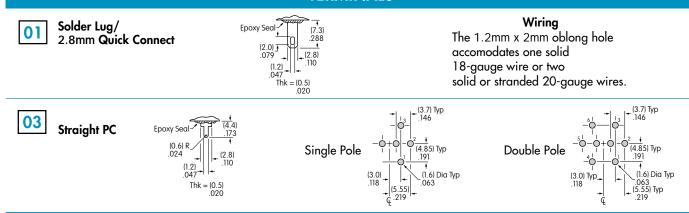
POLES & CIRCUITS											
		Plunger	Position Iomentary	Connected	Terminals	Throw & Power/Lamp Schematics					
		Normal	Down	Normal	Down	Notes: Switch is marked with NO, NC, COM, L+, and L					
Pole	Model					Lamp circuit is isolated and requires external power source.					
SP	YB15 YB16*	ON ON	(ON) ON	1-3	1-2	SPDT 1 (COM) 3 ● 2 L(+) ● O ● (-) L					
DP	YB25 YB26*	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT 3 • 2 6 • 5 L(+) • O • (-) L					
* When in latchdown position for the alternate circuit, cap position is 0.5mm (.020") above the built-in bezel.											
				PAN	NEL SEAL						
No	Code	Without Panel	Seal			With Panel Seal					
Bush	Bushing Mounting Snap-in Mounting Only Bushing only										
	blied with nting nut.					Supplied with mounting nut and o-ring.					
			S	HAPES & M	OUNTING	TYPES					
		Bushing <i>I</i>	Mounting			Snap-In Mounting					
S	Square	C Rou	nd	Rectangular	r K Sq	uare M Round N Rectangular					
			Bez	cel-barrier is an	integral part of	the switch.					
				нс	DUSING						
K	Black Housing available in black only. The 1-piece body and bezel-barrier have a matte finish.										
CONTACT MATERIALS & RATINGS											
W	Silver Con	tacts	P	ower Level		3A @ 125/250V AC					
G	Gold Cont	acts	L	ogic Level		0.4VA @ 28V AC/DC					
	See Supplement Index for complete explanation of operating range.										



Series Y

Short Body Pushbutton Switches

TERMINALS



INCANDESCENT LAMP & SOLID CAP

Electrical Specifications

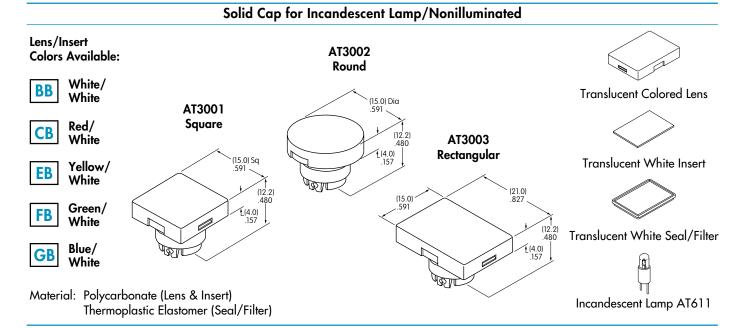
Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. For dimension drawing of lamp see the Accessories & Hardware Index.

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

The ballast resistor calculation and more lamp detail are shown in the Supplement; see Supplement Index.

AT611			05	12	28 *			
Q	Voltage	V	5V AC	12V AC	28V AC	* Lamp life is significantly		
	Current	Ι	115mA	60mA	22mA	reduced in applications with DC current, high		
11	MSCP		.150	.150	shock, vibration, flashing, or continuous illumination.			
	Endurance	Hours		7,000 average				
T-1 Standard Bi-pin	Ambient Temp F	Range		-25°C ~ +50°C				

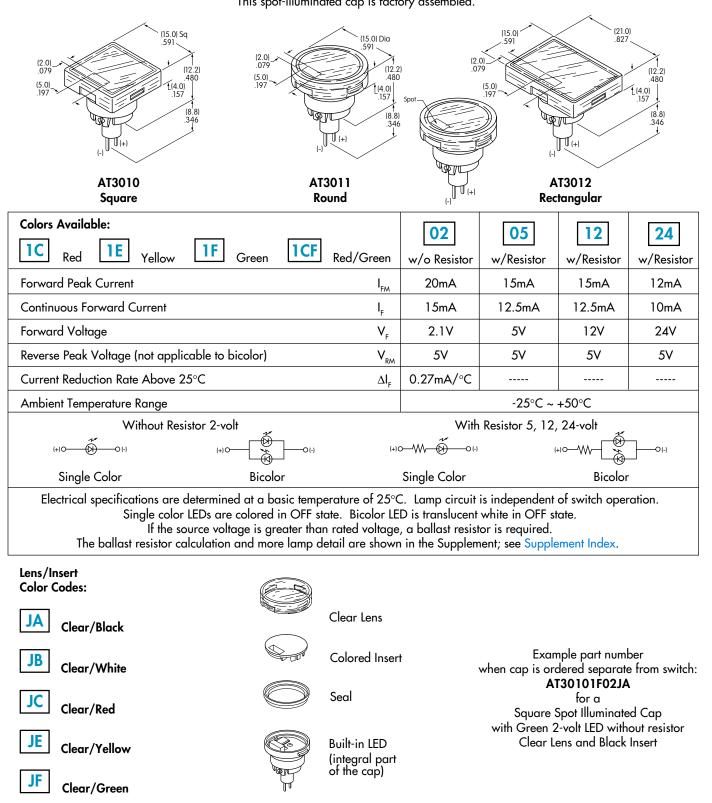
00 No Lamp Code 00 indicates that no lamp is used with the solid cap.





Series YB Short Body Pushbutton Switches

SPOT ILLUMINATED CAP WITH BUILT-IN LED



This spot-illuminated cap is factory assembled.

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

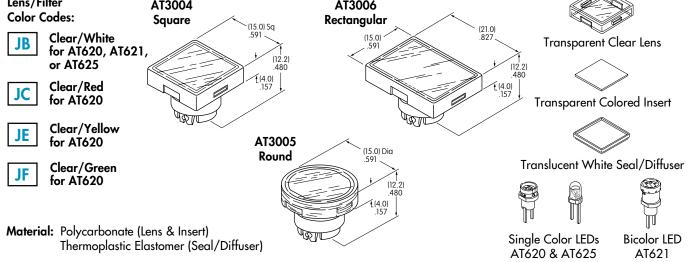


Short Body Pushbutton Switches

SINGLE COLOR & BICOLOR LEDS & LED CAP

Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. If the source voltage is greater than rated voltage, a ballast resistor is required. The ballast resistor calculation is shown in the Supplement & lamp drawings are in Accessories & Hardware.

Electrical Specifications for Single Color LED									
AT620 Red, 🏐		Single color LEDs are colored in OFF state.			Ε	F	G	04 4-vo with	lt out Resistor
Yellow, 🌱 Green	Forwe	vard Peak Current		40mA	40mA	A 40mA 30mA			
T-1½ Standard Bi-pin	Conti	nuous Forward Current	I _F	30mA	30mA	30mA 20mA			
AT625 🔊	Forwe	ard Voltage	$V_{\rm F}$	3.9V	3.9V	9V 4.2V 3.6V		AT620 Single Color LED w/4 Elements for Red, Yellow, Green	
Blue 🛃	Rever	rse Peak Voltage	V_{RM}	8V	8V	8V 5V			
	Curre	ent Reduction Rate Above 25°C	$\Delta l_{\rm F}$		0.50m	nA∕°C			
T-1 Standard Bi-pin	Ambi	ent Temperature Range			-25°C ~ +50°C			AT625 Single Color LED with 1 Element for Blue	
Electrical Specifications for Bicolor LED									
AT621		Bicolor LED is translucent white in OFF state.			02		05	12	24
2CF Red/Gre	en	Forward Peak Current	I _{fm}	60m	60mA 60mA		20mA	12mA	
9		Continuous Forward Current	I _F	45m	45mA 45mA		15mA	10mA	
		Forward Voltage	V _F	2.1	2.1V 5V		12V	24V	
0.0		Current Reduction Rate Above	ΔI_{F}	0.80m	.80mA°C				
T-1½ Standard Bi-	pin	Ambient Temperature Range			-25°C ~ +50°C				
AT621 Bicolor LED with 6 Elements 2-volt w/o Resistor Bicolor LED with 6 Elements 2-volt with Resistor Bicolor LED with 6 Elements 5-volt with Resistor CFI Bicolor LED With 6 Elements 5-volt With Resistor CFI Bicolor LED With CFI									
LED Cap for Single or Bicolor Full Face Illumination									
Lens/Filter		AT3004	Α	T3006					





Series YB

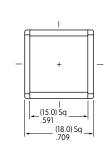
Short Body Pushbutton Switches

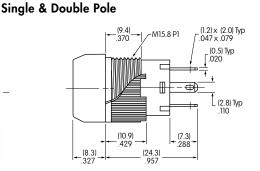
TYPICAL SWITCH DIMENSIONS

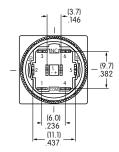
Square • Bushing Mounting



YB155KW01-12-CB







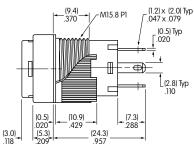
Single pole models do not have terminals 4, 5, & 6.

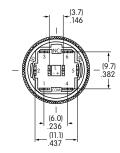
Round • Panel Seal



Single & Double Pole

(15.0) Dia .591 (18.0) Dia .709



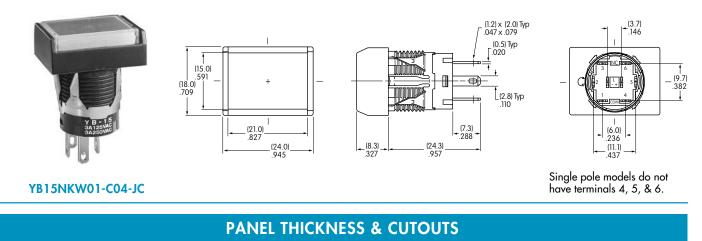


Single pole models do not have terminals 4, 5, & 6.

YB25WCKW01-12-EB

Rectangular • Snap-in Mounting

Single & Double Pole







OPTIONAL ACCESSORIES

Panel thickness range with Splash Cover or Protective Guard: 0.5 ~ 3.8mm (.020 ~ .150") for Bushing Mounting 0.5 ~ 2.3mm (.020 ~ .091") for Snap-in Mounting

Splash Covers and Protective Guards reduce the depth of switch behind panel by .047".

