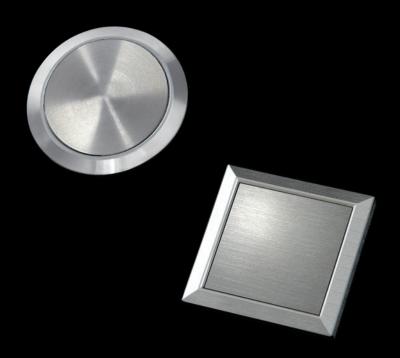
New Brushed Chrome Cap and Bezel

Thin Flush Mount Pushbuttons YB2 Panel Seal





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)

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: 1.5N

Double pole: 3.0N

Contact Timing: Nonshorting (break-before-make)

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

.098" (2.5mm) in Latchdown Position

Materials & Finishes

Bezel: Black: Glass fiber reinforced polyamide (UL94V-0); Silver: Polycarbonate

Housing: Glass fiber reinforced polyamide (UL94V-0)

Base: Diallyl phthalate resin (UL94V-0)

Movable Contactor: Phosphor bronze with silver or gold plating

Movable Contacts: Phosphor bronze & silver alloy
Stationary Contacts: Switch Terminals: Phosphor bronze with gold plating
Phosphor bronze with tin plating

Lamp Terminals: Phosphor bronze with tin plating

Environmental Data

Operating Temperature 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 (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Sealing: IP65 of IEC60529 standard

Installation

Mounting Torque: 0.785Nm (6.95 lb•in) maximum

Soldering Time & Temperature: Manual Soldering: 390°C maximum for 4 seconds maximum

Standards & Certifications

Flammability Standards: UL94V-0 housing, base & black or metallic silver bezel

UL: File No. E44145

All solder lug models recognized at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.

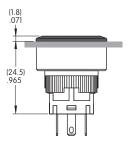
Add "/CUL" to end of part number to order cULus mark on switch.



Distinctive Characteristics

- High quality brushed chrome cap and bezel options.
- Improved weather durability against ultaviolet rays.
- Meets IP65 of IEC60529 standards (similar to NEMA 4 and 13), providing dust tight and splashproof panel seal protection.
- Short body of .965" (24.5mm) conserves behindpanel space.
- Tamper resistant 19mm diameter actuator and 18mm square actuator.
- Shortest above-panel dimension (1.8mm) in the industry for splashproof design making panel flat and preventing operator error.
- Light weight compared to actual metal switches due to metal plating on resin.
- Distinctive long stroke and light touch actuation for smooth actuation and clear indication of circuit status.

- Choice of cap colors includes clear, red, green, amber, or brushed chrome for enhanced panel appearance.
- Metallic silver cap option has bright ring illumination (round only).
- Bezel color options in brushed chrome or black.
- Available in momentary and alternate action with latchdown.
- Crisp actuation and clear circuit status provided by snap-action contact mechanism. Arc barrier protects against crossover.
- Combination solder lug and .110" quick connect terminals. Terminals are epoxy sealed to lock out flux, dust, solvents, and other contaminants, as well as to secure terminals and improve contact stability.





Brushed Chrome Bezel + Brushed Chrome Cap



Brushed Chrome
Bezel
+
Ring Illuminated
Metallic Silver Cap



Brushed Chrome Bezel + Illuminated Cap



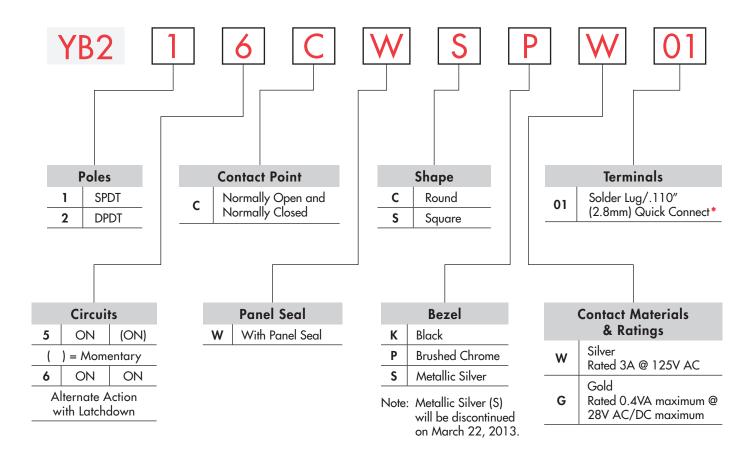
Brushed Chrome Bezel + Brushed Chrome Plated Cap



Brushed Chrome Bezel + Illuminated Cap



TYPICAL SWITCH



IMPORTANT:

A

Switches are supplied without cULus marking unless specified.

cULus recognized only when ordered with marking on the switch.

Specific models, ratings, & ordering instructions are noted on General Specifications page.

* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

YB216CWSPW01-N-P





ORDERING EXAMPLE



Bright LED					
LED	LED Colors		Resistor		
5C	Red	No Code	No Resistor (not for Green)		
5D	Amber	05	5-volt		
	Green	12	12-volt		
5F		24	24-volt		

Lens/Diffuser Colors				
JB	Clear/White			
JS	Metallic Silver Cap/Clear Ring (round only)			
СВ	Red/White			
EB	Yellow/White			
FB	Green/White			
IFD & can need to be the same color				

LED & cap need to be the same color. Yellow cap pairs with amber LED to achieve amber illumination. Codes JB & JS (round only) may be combined with all LED colors.

Super Bright LED			
6B	White		
6F	Green		
6G	Blue		

Lens/Diffuser Cap Colors					
JB	Clear/White				
JS	Metallic Silver Cap/Clear Ring (round only)				

Nonilluminated			
N	No Lamp		

Cap Color			
JB	Clear/White		
СВ	Red/White		
EB	Yellow/White		
FB	Green/White		
Р	Brushed Chrome		
S	Metallic Silver		

Note: Metallic Silver (S) will be discontinued on March 22, 013.



POLES & CIRCUITS								
Plunger Position () = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics				
Pole	Model	Normal	Down	Normal	Down	Notes: Switch is marked with NC, NO, COM, L+, L Lamp circuit is isolated and requires an external power source.		
SP	YB215 YB216	ON ON	(ON) ON	1-3	1-2	SPDT	1 (COM) 3 NC ● 2 NO	L (+) ●
DP	YB225 YB226	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT	1 (COM) 4 3 NC 2 NO 6 NC 5 NO	L (+) ●

CONTACT POINT

PANEL SEAL

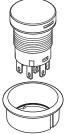
Normally Open and Normally Closed

Contact points are both Normally Open and Normally Closed.

W

Panel Seal (round and square)

Two o-rings provide panel seal protection meeting IP65 of IEC60529 standards.



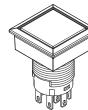


SHAPE

C Round

S

Square



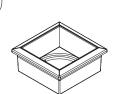
K Black

P

Brushed Chrome

S

Metallic Silver



CONTACT MATERIALS & RATINGS

 $|\mathbf{W}|$

Silver Contacts

Power Level: 3A @ 125/250V AC

Switch base is green

G

Gold Contacts

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

BEZEL

Switch base is red

TERMINALS

01

Solder Lug/ .110" (2.8mm) Quick Connect





CAPS & CAP COLORS

AT3017 Cap for **Bright LED**

AT3018 Cap for **Super Bright LED** AT3019 Cap for **Nonilluminated**

AT3020 Cap with Illumination Ring for **Bright or Super Bright LED** Cap Color Available:

Lens/Diffuser Colors Available:

Lens/Diffuser Colors Available:

Cap Color Available:

Metallic Silver with **Clear Ring**

JB

FB

Clear/White

Red/White

Clear/White

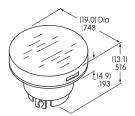
Metallic Silver

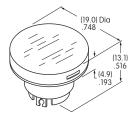
Brushed Chrome

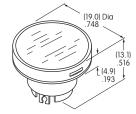
*Yellow/White

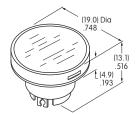
Green/White

Note: AT3017 Cap can also be used without illumination.









Material for Lens & Diffuser: Polycarbonate

Materials Lens: Polycarbonate Insert: Polyester

AT3025 Cap for Illuminated

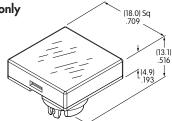
Lens/Diffuser Colors Available:

Clear/White For Bright & Superbright LEDs

Red/White **CB** For Bright LED only

*Yellow/White EB For Bright LED only

Green/White FB For Bright LED only



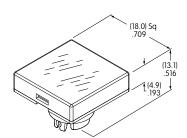
AT3027 Cap for Nonilluminated .

Cap Color Available:

Brushed Chrome

Metallic Silver

Note: AT3025 Cap can also be used without illumination.



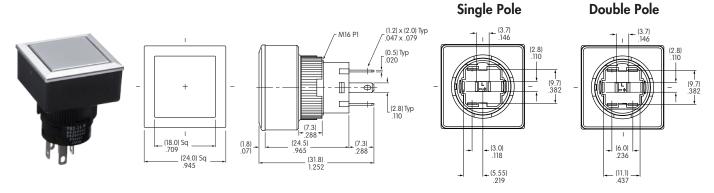
Material for Lens & Diffuser: Polycarbonate

^{*}Yellow cap pairs with amber LED to achieve amber illumination.



^{*}Yellow cap pairs with amber LED to achieve amber illumination.

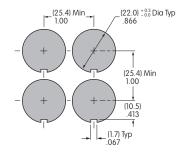
TYPICAL SWITCH DIMENSIONS



YB216CWSPW01-N-P

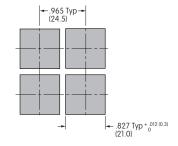
PANEL THICKNESS & CUTOUT





Side-by-side Mounting

Panel Thickness .020" ~ .197" (0.5mm ~ 5.0mm)



Side-by-side Mounting

Availability
October 22, 2012



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