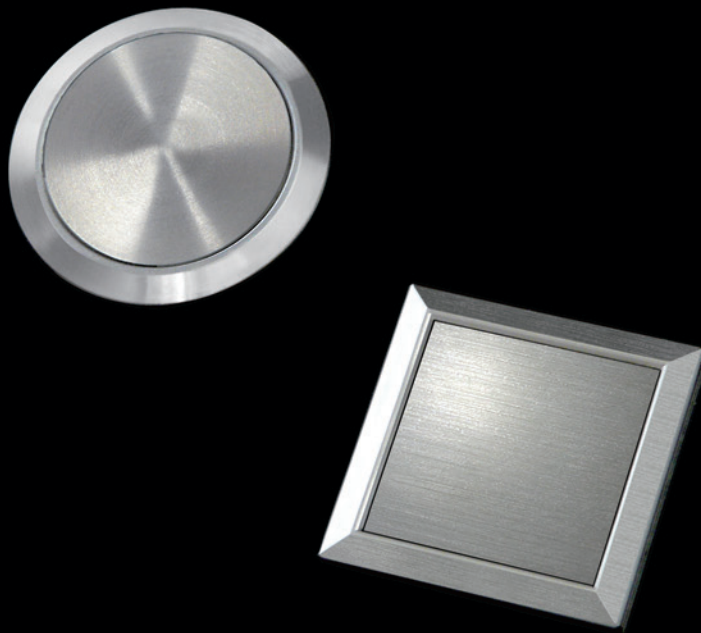


Contact No. 208

New Brushed Chrome Cap and Bezel

Thin Flush Mount Pushbuttons
YB2 Panel Seal



2012-09-18

NIKK
SWITCHES

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: Silver alloy or copper with gold plating
Switch Terminals: 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

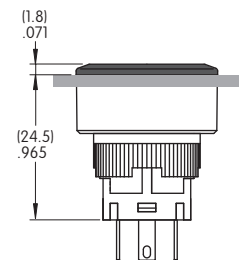
Mounting Torque: 0.785Nm (6.95 lb•in) maximum
Soldering Time & Temperature: Manual Soldering: 390°C maximum for 4 seconds maximum

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 ultraviolet 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 behind-panel 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

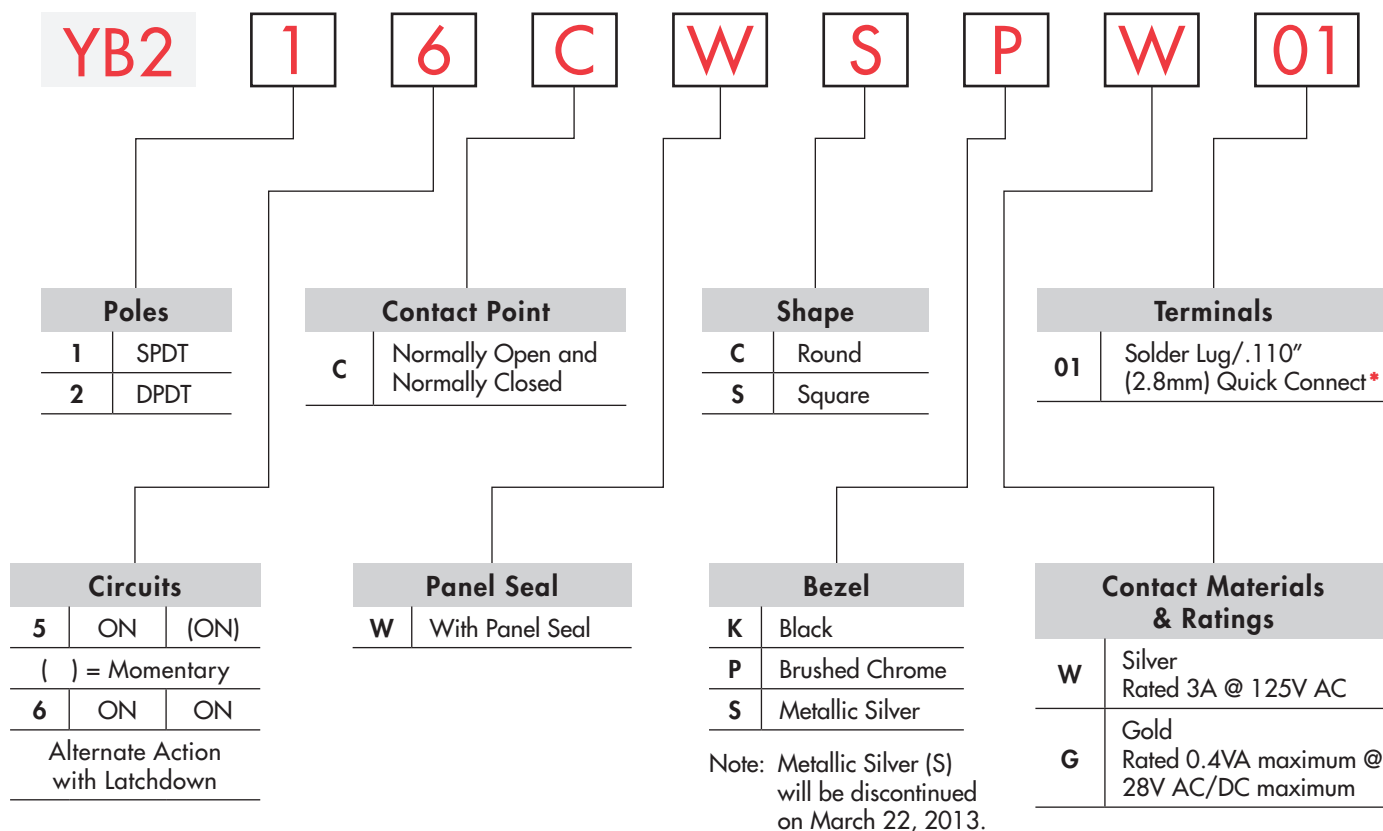


Brushed Chrome
Bezel
+
Brushed Chrome
Plated Cap



Brushed Chrome
Bezel
+
Illuminated
Cap

TYPICAL SWITCH



IMPORTANT:

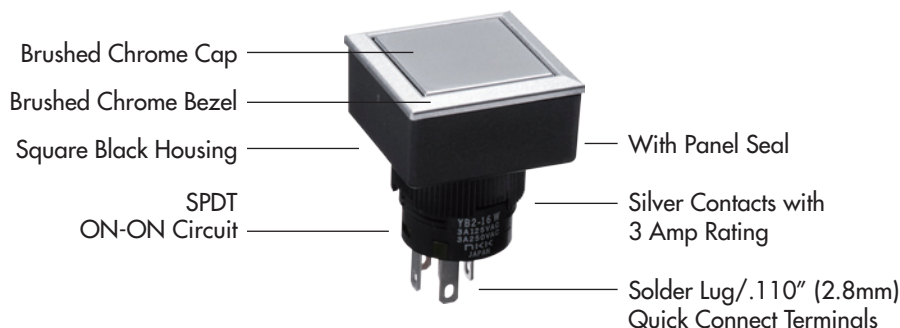


Switches are supplied without cULus marking unless specified.
cULus recognized only when ordered with marking on the switch.
 Specific models, ratings, & ordering instructions are noted on General Specifications page.

* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

YB216CWSPW01-N-P



ORDERING EXAMPLE

N

LEDS

Bright LED

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

P

Cap Types & Colors

Lens/Diffuser Colors

JB	Clear/White
JS	Metallic Silver Cap/Clear Ring (round only)
CB	Red/White
EB	Yellow/White
FB	Green/White

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

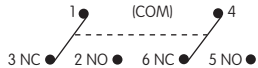
N	No Lamp
---	---------

Cap Color

JB	Clear/White
CB	Red/White
EB	Yellow/White
FB	Green/White
P	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  L (+) — (–) L
DP	YB225 YB226	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT  L (+) — (–) L

CONTACT POINT

C

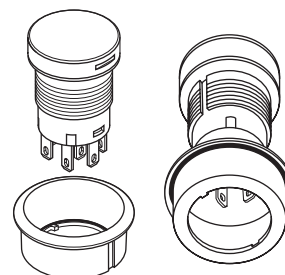
Normally Open and Normally Closed

Contact points are both Normally Open and Normally Closed.

W

Panel Seal
(round and square)

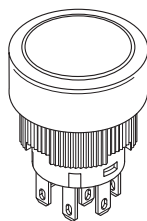
Two o-rings provide panel seal protection meeting IP65 of IEC60529 standards.



SHAPE

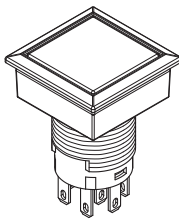
C

Round



S

Square



BEZEL

K

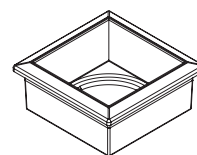
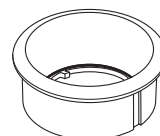
Black

P

Brushed Chrome

S

Metallic Silver



CONTACT MATERIALS & RATINGS

W

Silver Contacts

Power Level: 3A @ 125/250V AC

Switch base is green

G

Gold Contacts

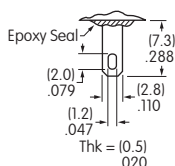
Logic Level: 0.4VA max. @ 28V AC/DC max.

Switch base is red

TERMINALS

01

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

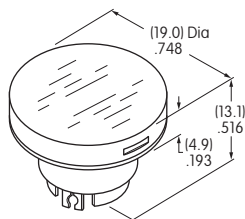


CAPS & CAP COLORS

AT3017 Cap for Bright LED

Lens/Diffuser Colors Available:

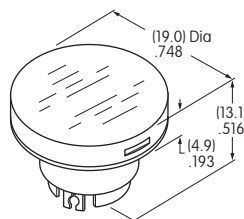
- JB** Clear/White
- CB** Red/White
- EB** *Yellow/White
- FB** Green/White



AT3018 Cap for Super Bright LED

Lens/Diffuser Colors Available:

- JB** Clear/White

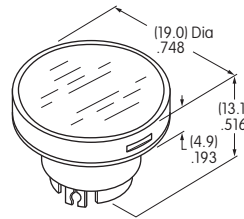


AT3019 Cap for Nonilluminated

Cap Color Available:

- P** Brushed Chrome
- S** Metallic Silver

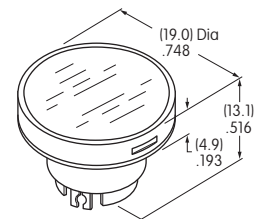
Note: AT3017 Cap can also be used without illumination.



AT3020 Cap with Illumination Ring for Bright or Super Bright LED

Cap Color Available:

- JS** Metallic Silver with Clear Ring



Material for Lens & Diffuser: Polycarbonate

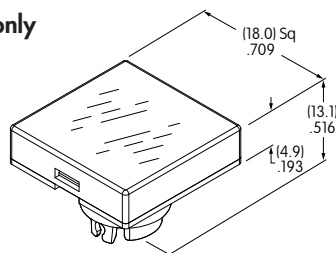
Materials
Lens: Polycarbonate
Insert: Polyester

*Yellow cap pairs with amber LED to achieve amber illumination.

AT3025 Cap for Illuminated

Lens/Diffuser Colors Available:

- JB** Clear/White For Bright & Superbright LEDs
- CB** Red/White For Bright LED only
- EB** *Yellow/White For Bright LED only
- FB** Green/White For Bright LED only

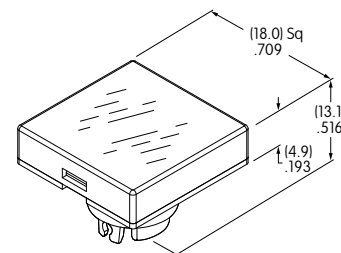


AT3027 Cap for Nonilluminated

Cap Color Available:

- P** Brushed Chrome
- S** Metallic Silver

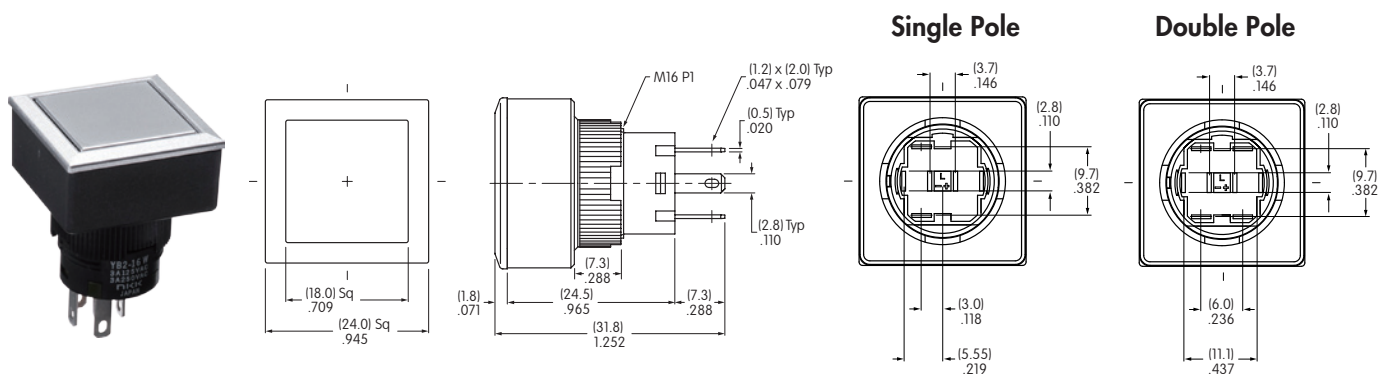
Note: AT3025 Cap can also be used without illumination.



Material for Lens & Diffuser: Polycarbonate

*Yellow cap pairs with amber LED to achieve amber illumination.

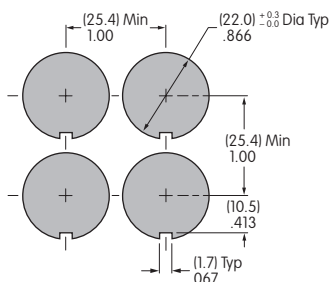
TYPICAL SWITCH DIMENSIONS



YB216CWSPW01-N-P

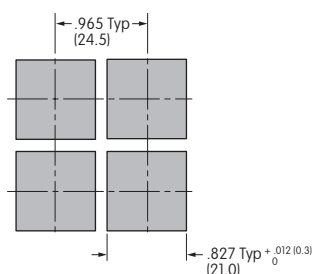
PANEL THICKNESS & CUTOUT

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



Side-by-side Mounting

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



Side-by-side Mounting

Availability

October 22, 2012

NIKK
SWITCHES

www.nkkswitches.com

Phone 480.991.0942 • Toll Free 877.228.9655
7850 East Gelding Drive • Scottsdale, Arizona 85260

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru