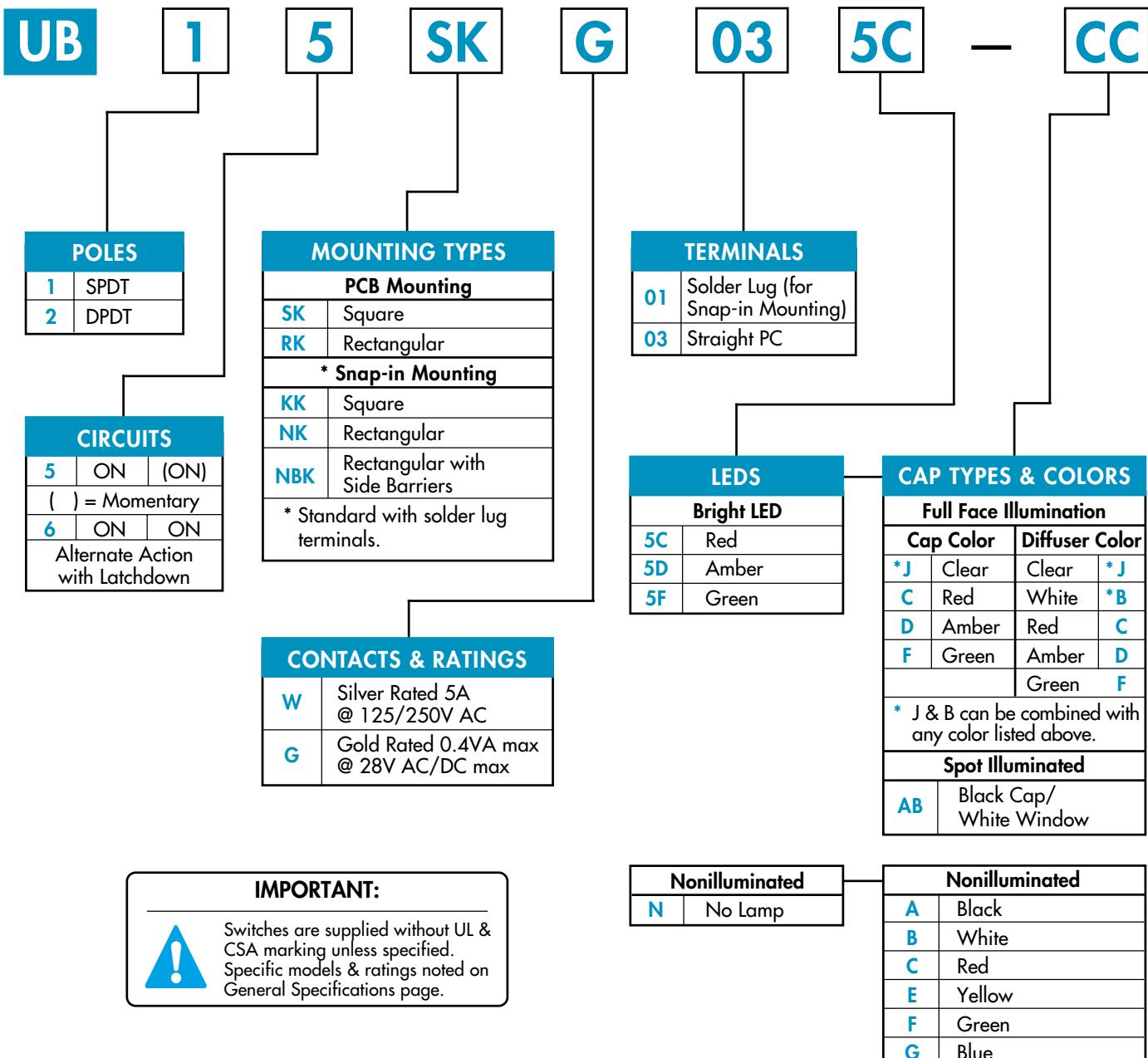


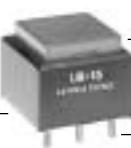
### TYPICAL SWITCH ORDERING EXAMPLE



### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

UB15SKG035C-CC

Gold Contacts with 0.4VA Rating ————— Bright Red LED and Red Cap with Red Diffuser  
 Square with PCB Mounting ————— SPDT ON-(ON) Circuit  
 ————— Straight PC Terminals



## GENERAL SPECIFICATIONS

## Electrical Capacity (Resistive Load)

**Power Level (code W):** 5A @ 125/250V AC or 5A @ 30V DC

**Logic Level (code G):** 0.4VA maximum @ 28V AC/DC maximum

Note: See Supplement Index (page Z1) 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;

200,000 operations minimum for alternate action

**Electrical Life:** 10,000 operations minimum for silver;

100,000 operations minimum for silver with resistive load of 3A @ 125V AC

200,000 operations minimum for gold

**Nominal Operating Force:** Single Pole: 160 grams for Square & 194 grams for Rectangular

Double Pole: 260 grams for Square & 316 grams for Rectangular

**Contact Timing:** Break before make

**Travel:** Square: 1.7mm (.067") pretravel; 0.6mm (.024") overtravel; 2.3mm (.091") total

Rectangular: 1.7mm (.067") pretravel; 0.7mm (.028") overtravel; 2.4mm (.095") total

## Materials &amp; Finishes

**Housing/Bezel:** Glass fiber reinforced polyamide

**Snap-in Frame:** Stainless steel

**Movable Contactor:** Phosphor bronze

**Movable Contacts:** Silver alloy or copper with gold plating over nickel

**Stationary Contacts:** Silver alloy or copper with gold plating over nickel

**Switch Terminals:** Phosphor bronze with silver or gold plating

**Lamp Terminals:** Brass with silver plating

**Base:** Glass fiber reinforced liquid crystal polymer

## Environmental Data

**Operating Temp Range:** Illuminated: -25°C through +50°C (-13°F through +122°F)

Nonilluminated: -20°C through +70°C (-4°F through +158°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 acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## Installation

**Cap Installation Force:** .77 kg (1.69 lb)

**Soldering Time & Temperature:** 3 seconds @ 350°C or 5 seconds @ 270°C

**Process Seal:** Not available

## Standards &amp; Certifications

**Flammability Standards:** UL94V-0 housing/bezel of GFR polyamide & base of GFR liquid crystal polymer

**UL Recognized:** All single & double pole models recognized at 5A @ 125/250V AC or 0.014A @ 28V DC; UL File No. E44145

**CSA Certified:** All single & double pole models certified at 5A @ 125/250V AC or 5A @ 30V DC or 0.4VA maximum @ 28V AC/DC maximum; CSA File Nos. LR23535

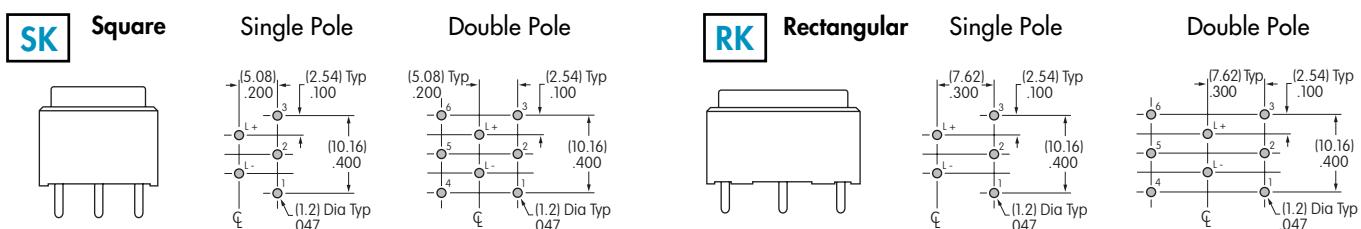
## POLES &amp; CIRCUITS

		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Power/Lamp Schematics	
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	UB15 UB16*	ON ON	(ON) ON	1-3	1-2	SPDT	
DP	UB25 UB26*	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT	

\* When in latchdown position for the alternate circuit, cap position is 1.0mm (.039") above the housing.

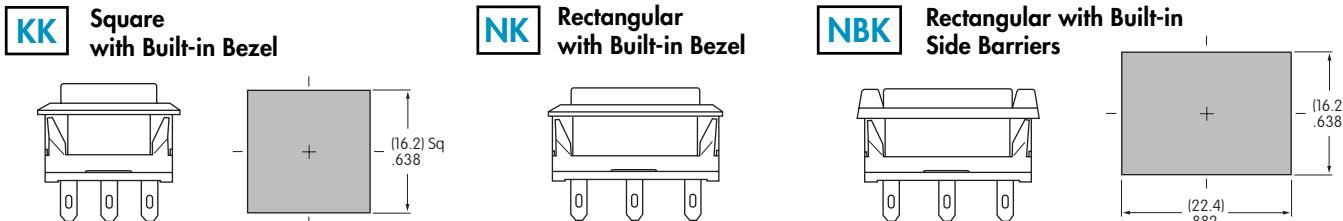
## SHAPES &amp; MOUNTING TYPES

## PCB Mounting



Nonilluminated models have no lamp terminals.

## Snap-In Mounting



Snap-in Mounting with Solder Lug terminals is the standard combination. Panel Thickness: 1.0 ~ 3.2mm (.039 ~ .126")

## CONTACT MATERIALS &amp; RATINGS

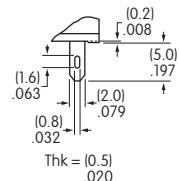
 Silver Contacts	Power Level	5A @ 125V AC & 250V AC
 Gold Contacts	Logic Level	0.4VA maximum @ 28V AC/DC maximum

See Supplement Index (page Z1) for complete explanation of operating range.

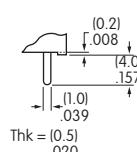
## TERMINALS

## 01 Solder Lug

The .032" x .063" oblong hole accommodates two solid or stranded 24-gauge wires.



## 03 Straight PC



## LED COLORS &amp; SPECIFICATIONS

Electrical specifications are determined at a basic temperature of 25°C.

LED circuit is independent of switch operation. 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 (page Z1).

## Bright LED

LEDs are an integral part of the switch and not available separately.	 Color	5C	5D	5F	Unit
		Red	Amber	Green	
	Forward Peak Current $I_{FM}$	30	30	25	mA
	Continuous Forward Current $I_F$	20	20	20	mA
	Forward Voltage $V_F$	1.85	2.0	2.25	V
	Reverse Peak Voltage $V_{RM}$	5	5	5	V
	Current Reduction Rate Above 25°C $\Delta I_F$	0.40	0.42	0.46	mA/°C



Code N indicates that no lamp is used.

## CAP TYPES &amp; COLOR COMBINATIONS

## Transparent Cap with Diffuser for Full Face Illuminated

Caps		Diffusers	
<b>J</b>	Clear	<b>J</b>	Clear (for square only)
<b>C</b>	Red	<b>B</b>	White
<b>D</b>	Amber	<b>C</b>	Red
<b>F</b>	Green	<b>D</b>	Amber
		<b>F</b>	Green

AT4074 Square      AT4117 Rectangular

Cap & Diffuser Material: Polycarbonate      Lens Finish: Glossy      Diffuser Finish: Textured

Note: Both cap & diffuser colors must be selected. J & B can be combined with any color.

## Spot Illuminated Cap

<b>AB</b>	AT4119 Square	AT4120 Rectangular
Material: Polycarbonate	Finish: Matte	Finish: Matte

## Opaque Cap for Nonilluminated

<b>Colors Available:</b>	<b>AT4073 Square</b>	<b>AT4116 Rectangular</b>
<b>A</b> Black	<b>E</b> Yellow	
<b>B</b> White	<b>F</b> Green	
<b>C</b> Red	<b>G</b> Blue	

Material: Polycarbonate      Finish: Glossy

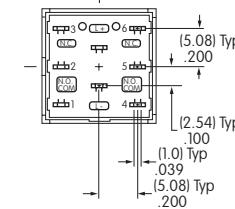
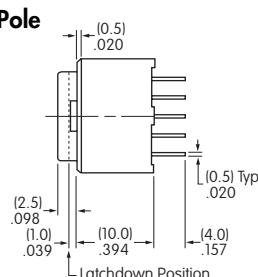
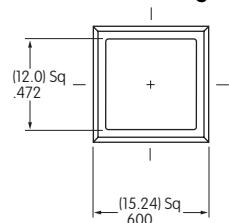
### TYPICAL SWITCH DIMENSIONS

#### Square • PCB Mount



**UB15SKG035C-CB**

#### Single & Double Pole



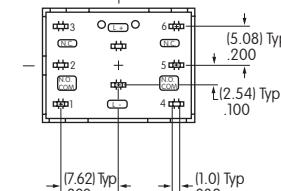
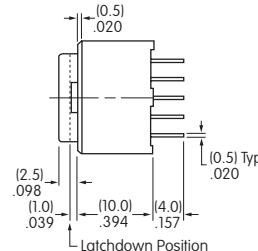
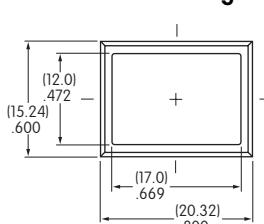
Single pole models do not have terminals 4, 5, & 6. Nonilluminated models do not have lamp terminals.

#### Rectangular • PCB Mount



**UB26RKG035D-DD**

#### Single & Double Pole



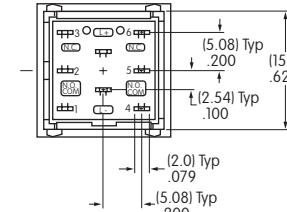
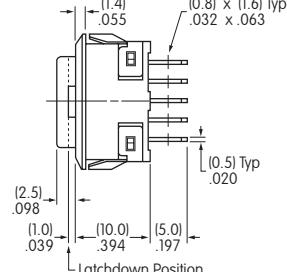
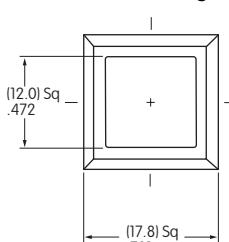
Single pole models do not have terminals 4, 5, & 6. Nonilluminated models do not have lamp terminals.

#### Square • Snap-in Mount • Built-in Bezel



**UB25KKW015C-CB**

#### Single & Double Pole



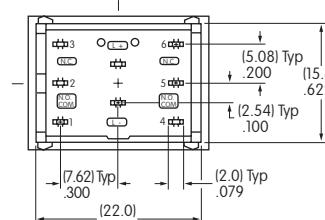
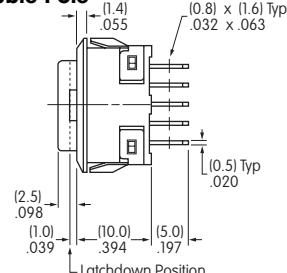
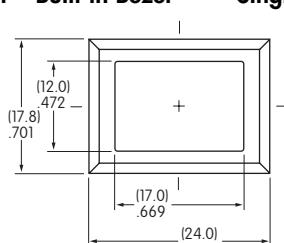
Single pole models do not have terminals 4, 5, & 6. Nonilluminated models do not have lamp terminals.

#### Rectangular • Snap-in Mount • Built-in Bezel



**UB26NKW015F-FF**

#### Single & Double Pole



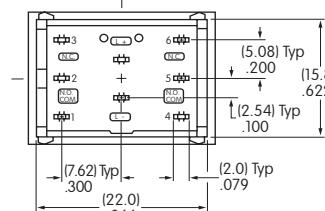
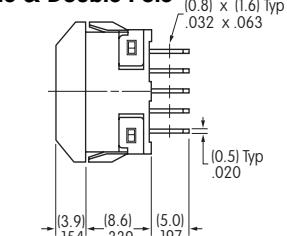
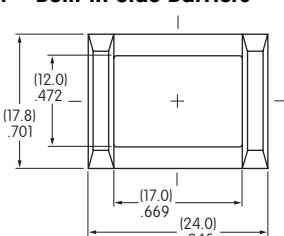
Single pole models do not have terminals 4, 5, & 6. Nonilluminated models do not have lamp terminals.

#### Rectangular • Snap-in Mount • Built-in Side Barriers

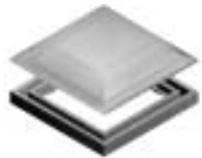


**UB25NBK015F-FB**

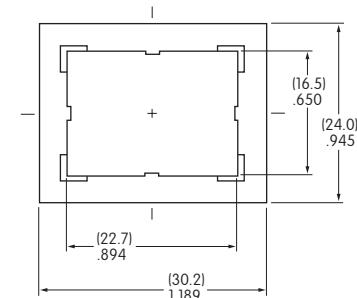
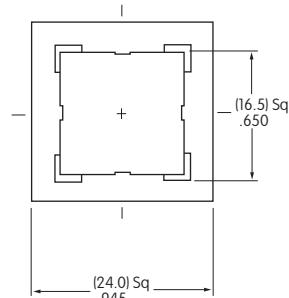
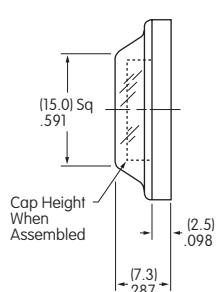
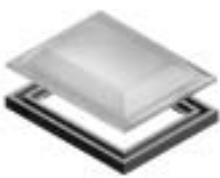
#### Single & Double Pole



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

**OPTIONAL ACCESSORIES****Splash Covers****AT4001**  
Square

Not for use with barrier type models.

**AT4011**  
Rectangular**Materials:**

PVC with polyethylene gasket

(PVC loses pliability below 0°C (32°F).)

Panel Thickness 1.0mm ~ 2.5mm (.039" ~ .098")