

NKK° Switcl

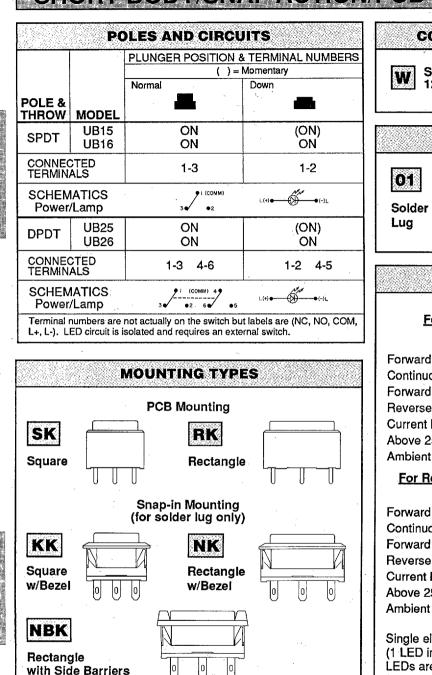
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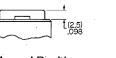
SERIES UB PUSHBUTTON SWITCHES

SHORT BODY/SNAP ACTION/PCB & SNAP-IN MOUNTING



LATCHDOWN MECHANISM

The latchdown feature on alternate action circuits provides visible, audible, and tactile feedback. The cap extends 1.0mm (.039") above the body or built-in bezel when in the latchdown position.





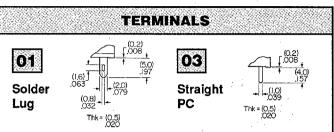
Latchdown Position

Normal Position

CONTACT MATERIALS & RATINGS

Silver Rated 5A @ 125/250V AC

Gold Rated 0.4VA maximum @ 28V AC/DC maximum



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LED SPECIFICATIONS

For Square Type		C	Ξ	F
Colors: Forward Peak Current Continuous Fwd Current Forward Voltage	I _{FM} I _F V _F	Red 30mA 20mA 2.0V	Yellow 20mA 15mA 1.9V	Green 20mA 15mA 1.95V
Reverse Peak Voltage Current Reduction Rate Above 25°C Ambient Temp Range	V _{RM} Δl _g	5V 0.40 mA/°C	5V 0.27 mA/°C 5°C ~ +70	5V 0.27 mA/°C
For Rectangular Type Colors: Forward Peak Current Continuous Fwd Current Forward Voltage Reverse Peak Voltage Current Reduction Rate Above 25°C Ambient Temp Range	I _{FM} I _F V _F V _{RM} ΔI _F	Red 60mA 40mA 2.0V 5V 0.80 mA/°C -25	Yellow 40mA 30mA 1.9V 5V 0.54 mA/°C 5°C ~ +70	Green 40mA 30mA 1.95V 5V 0.54 mA/°C °C

Single element LEDs are an integral part of the UB device (1 LED in the square and 2 LEDs in the rectangular). LEDs are not available separately.

Electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds rated voltage, a ballast resistor is required. Calculate resistor value by using the formula shown in the supplement.

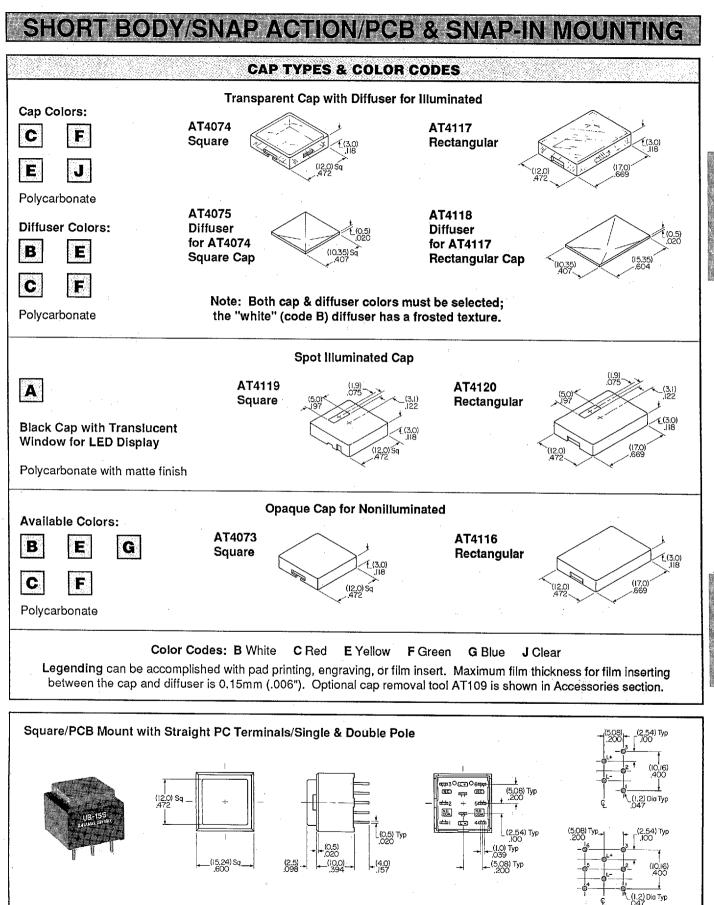
SOLDERING & WIRING SPECIFICATIONS

Soldering Time & Temperature Limits are 3 seconds at 350°C or 5 seconds at 270°C.

Terminal Holes are .032" X .063" oblong & accommodate 1 solid 20-gauge wire or 2 solid or stranded 22-gauge wires.

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SERIES UB PUSHBUTTON SWITCHES



UB15SKG03C-CB Model Shown

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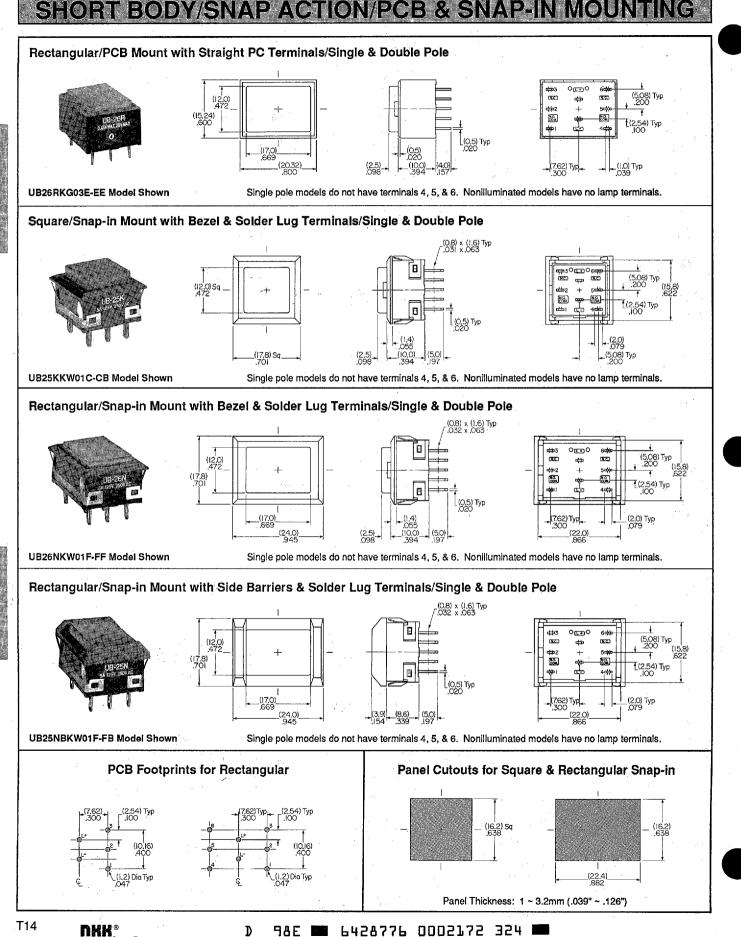
Single pole models do not have terminals 4, 5, & 6. Nonilluminated models have no lamp terminals.

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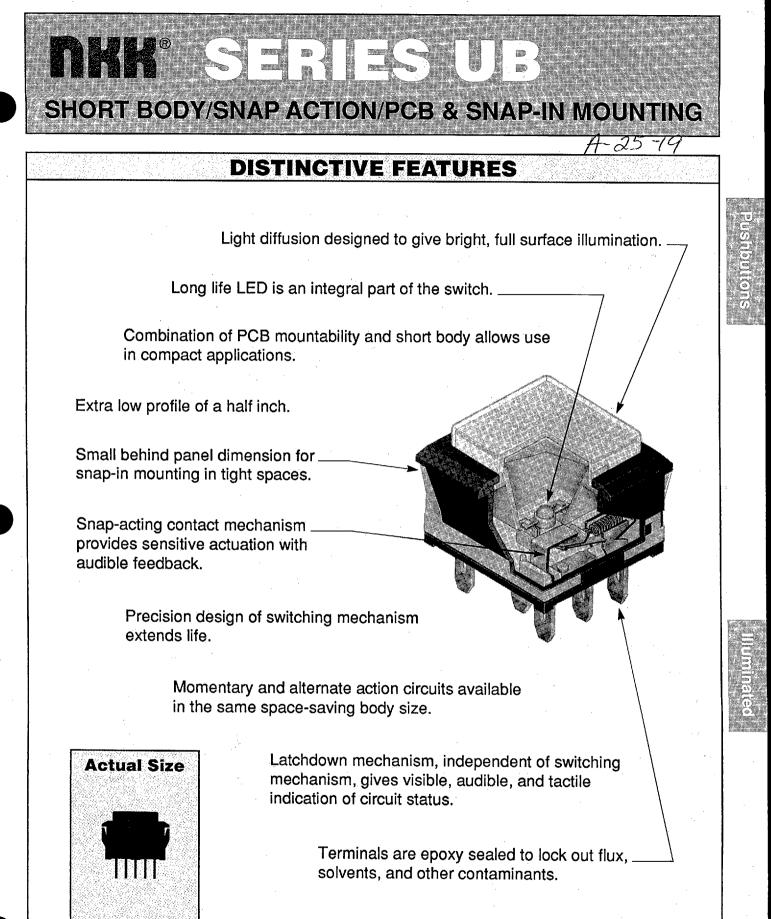
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SHORT BODY/SNAP ACTION/PCB & SNAP-IN MOUNTING



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UL recognized and CSA certified.

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NHH SERIES UB PUSHBUTTON SWITCHES

SHORT BODY/SNAP ACTION/PCB & SNAP-IN MOUNTING

GENERAL SPECIFICATIONS

5A @ 125/250V AC & 5A @ 30V DC for silver **Electrical Capacity:** (Resistive Load) 0.4VA maximum @ 28V AC/DC maximum for gold (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) **Contact Resistance:** 50 milliohms maximum for silver 100 milliohms maximum for gold **Insulation Resistance:** 200 megohms minimum @ 500V DC 1,000V AC minimum between contacts **Dielectric Strength:** 1,500V AC minimum between contacts and case Mechanical Life: 1,000,000 operations minimum for momentary action 200,000 operations minimum for alternate action 10,000 operations minimum for silver with resistive load of 5A @ 125V AC **Electrical Life:** 100,000 operations minimum for silver with resistive load of 3A @ 125V AC 200,000 operations minimum for gold Pretravel: 1.7mm (.067") **Overtravel:** 0.6mm (.024") **Total Travel:** 2.3mm (.091") Ambient Temp Range: Illuminated: -20°C through +50°C (-4°F through +122°F) Nonilluminated: -20°C through +70°C (-4°F through +158°F) Nominal Operating Force: Single Pole : 160 grams for Square & 194 grams for Rectangular Double Pole: 260 grams for Square & 316 grams for Rectangular

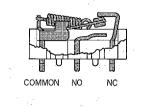
MATERIALS & FINISHES

Housing/Bezel	Glass fiber reinforced polyamide (UL 94V-0)
Snap-in Frame	Stainless steel
Movable Contactor	Phosphor bronze
Movable Contact	Silver alloy or copper with gold plating over nickel
Stationary Contacts	Silver alloy or copper with gold plating over nickel
Power Terminals	Phosphor bronze with silver or gold plating
Switch Lamp Terminals	Brass with tin-lead plating
Indicator Lamp Terminals	Brass with tin-lead plating
Base	Glass fiber reinforced diallylphthalate (UL 94V-0)

SNAP-ACTION MECHANISM

The UB pushbutton has a single break snap-action contact mechanism. The combined butterfly formation and spring action of the movable contact create the quick-make, quick-break characteristic which limits arcing and prolongs electrical life. An added benefit of this design is the sensitive and audible actuation.

This switch is offered with momentary or alternate action in single or double pole configurations.



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