#### Series FB & SB

# General Specifications

| Ceneral Specifications                         |   |  |
|--|---|--|
|  | FB Series   | SB Series  |
| Electrical Capacity (Resistive Load)           |   |  |
| Power Level:<br>Logic Level:                   | 500mA @ 125V AC for silver<br>0.4VA max. @ 28V AC/DC max. for gold<br>(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)<br>Note: Find additional explanation in<br>Supplement section. | 3A @ 125V AC or 2A @ 250V AC or<br>2A @ 30V DC for silver<br>0.4VA max. @ 28V AC/DC max. for gold<br>(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)<br>Note: Find explanation of operating range in<br>Supplement section. |
| Other Ratings                                  |   |  |
| Contact Resistance:                            | 30 milliohms maximum for silver;  | 10 milliohms maximum for silver;   |
| -  | 30 milliohms maximum for gold   | 20 milliohms maximum for gold<br>200 megohms minimum @ 500V DC   |
| Insulation Resistance:<br>Dielectric Strength: | 100 megohms minimum @ 500V DC<br>1,000V AC minimum between contacts &<br>between contacts & case for 1 minute minimum   | 1,000V AC minimum between contacts<br>& between contacts & case for 1 minute minimum   |
| Mechanical Life:                               | 50,000 operations minimum   | 30,000 operations minimum  |
| Electrical Life:                               | 50,000 operations minimum   | 10,000 operations minimum  |
| Nominal Operating Force:                       | 2.16N   | 4.90N  |
| Travel:  | Pretravel .043" (1.1mm)   | Normally Open  |
| -  | Overtravel .022" (0.57mm)   | Total Travel .088" (2.24mm)  |
|  | Total Travel .065″ (1.67mm)   | Normally Closed  |
| Materials 9 Etateless                          |   | Total Travel .088″ (2.24mm)  |
| Materials & Finishes Plunger:                  | Polyacetal  | Black: Phenolic resin  |
| Fioliger.                                      | rolyaceiai  | Red: Urea formaldehyde resin   |
| Bushing:                                       | Brass with nickel plating   | Brass with nickel plating  |
| Case:  | Phenolic resin  | Phenolic resin   |
| Movable Contactor:                             | Copper with silver or gold plating  | Copper with silver or gold plating   |
| Stationary Contacts:<br>Terminals:             | Phosphor bronze with silver or gold plating   | Copper with silver or gold plating   |
| ierminais:                                     | Phosphor bronze with silver or gold plating   | Copper with silver or gold plating   |
| Environmental & Installation Data              |   |  |
| Operating Temp Range:                          | -10°C through +70°C (+14°F through +158°F)  | -10°C through +70°C (+14°F through +158°F)   |
| Soldering Time &                               | Manual Soldering:   | Manual Soldering:  |
| Temperature:                                   | See Profile A in Supplement section.  | See Profile A in Supplement section.   |
| - Standards & Certifications                   |   |  |
| UL:  | File No. E44145 - Recognized only when  | File No. E44145 - Recognized only when ordered   |
|  | ordered with marking on switch.   | with marking on switch.  |
|  | Add "/U" or "/CUL" before dash in part  | Add "/U" or "/CUL" before dash in part number to order UL recognized switch.   |
| -  | number to order UL recognized switch.<br>Models rated 0.5A @ 125V AC Single pole;   | Models rated 3A @ 125V AC & 2A @ 250V AC.  |
|  | Momentary action circuit with solder lug  | Single pole: Momentary action circuit with solder lug  |
|  | terminations.   | terminations. Black plunger only.  |
| - CSA:   |   | File No. 023535_0_000 - Certified only when  |
| CSA:   |   | ordered with marking on switch.  |
|  |   | Add "/C" before dash in part number to order CSA   |
|  |   | certified switch.  |
| _  |   | SB series rated 3A @ 125V AC & 2A @ 250V AC.   |

SB series rated 3A @ 125V AC & 2A @ 250V AC. Single pole: Momentary action circuit with solder lug terminations. Black plunger only.



C

Rotaries

Touch

Supplement Accessories Indicators

Toggles

## Distinctive Characteristics

Optional caps in different colors to vary appearance as needed.

Low operating force for ease of actuation.

Rear panel bushing mount with compact behind panel dimension.

Internal antijamming feature to protect the contacts from damage due to excessive force on the plunger.

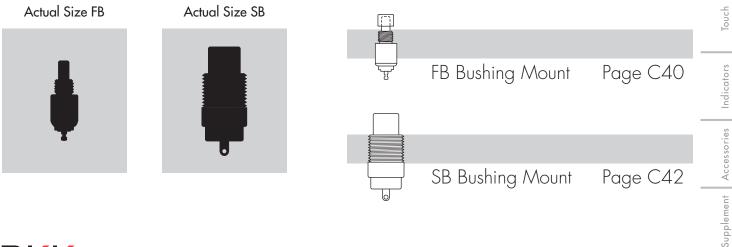
Self-cleaning contacts make FB models highly reliable.

Low cost device of rugged one-piece bushing and housing construction.

Reliability of construction with an internal guide to maintain contact alignment.

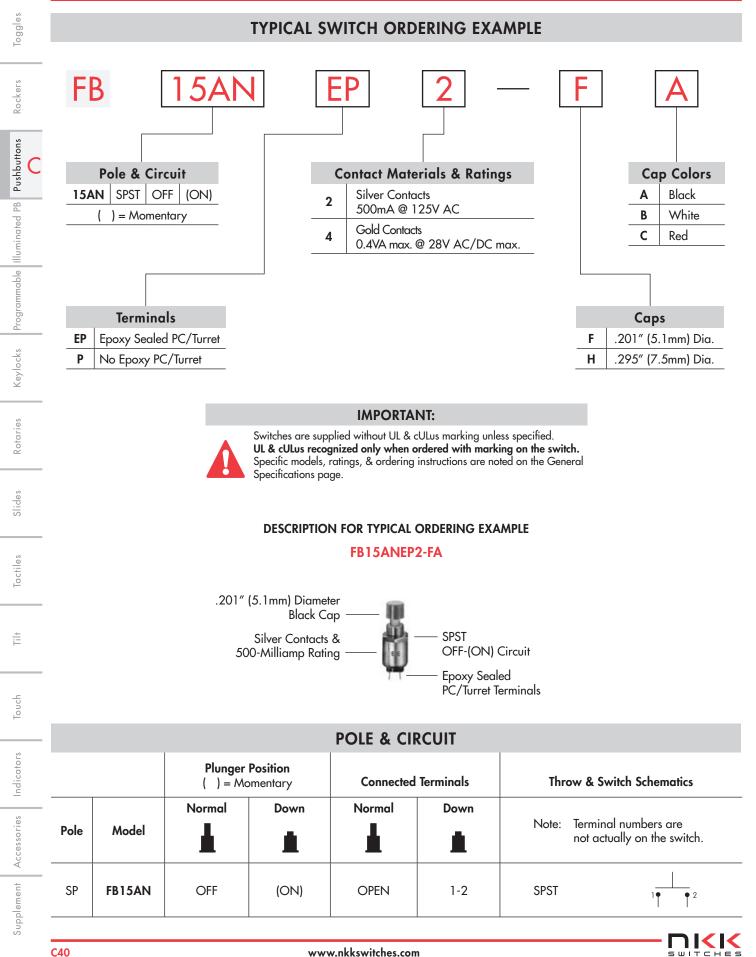
FB15ANEP and SB4011NO models have epoxy sealed terminals.



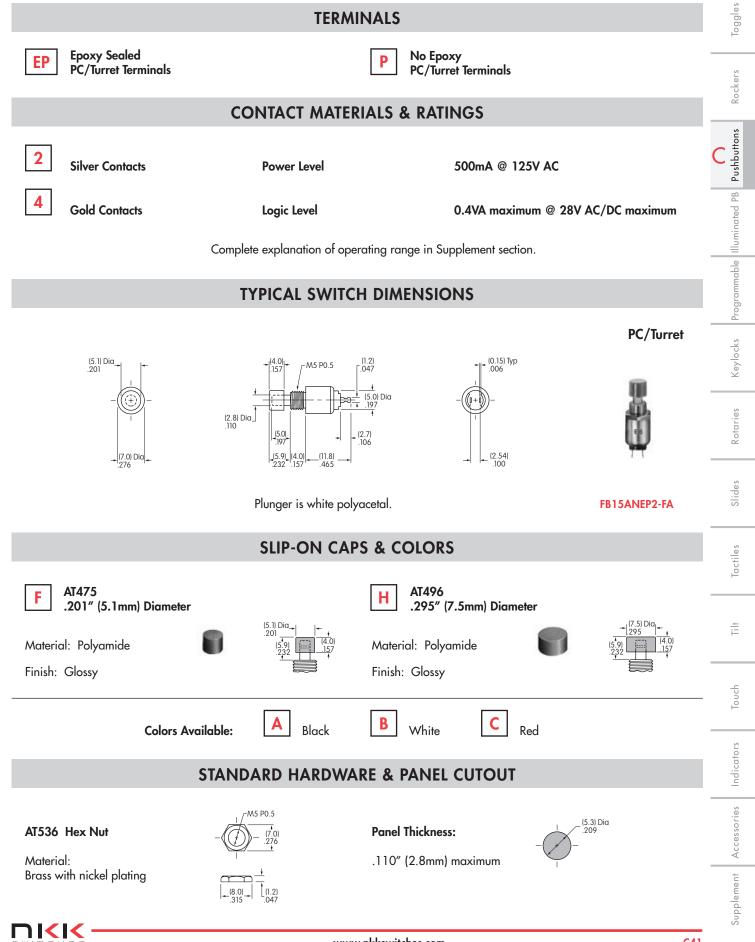


SWITCHES

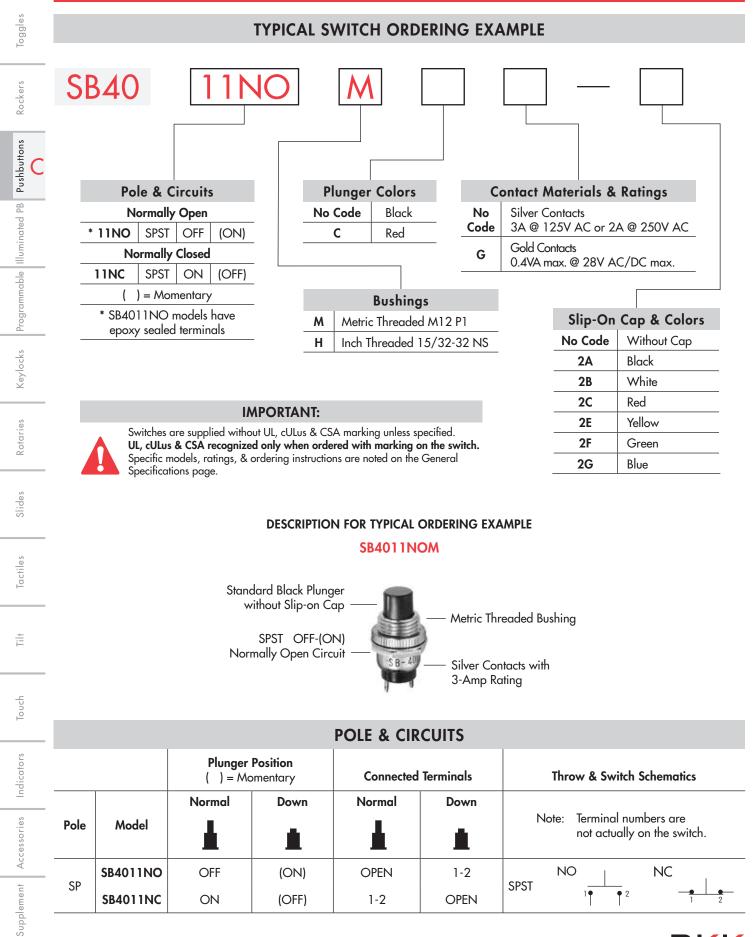
#### **Series FB**



**Series FB** 



#### **Series SB**



### **Series SB**

Toggles

Rockers

Programmable Illuminated PB Pushbuttons

Keylocks

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

#### **TYPICAL SWITCH DIMENSIONS**

