# Rockers

Accessories

## General Specifications

#### **FB Series**

#### **Electrical Capacity (Resistive Load)**

Power Level: 500mA @ 125V AC for silver

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

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find additional explanation in

Supplement section.

#### Other Ratings

**Contact Resistance:** 30 milliohms maximum for silver;

30 milliohms maximum for gold

**Insulation Resistance:** 100 megohms minimum @ 500V DC 1,000V AC minimum between contacts & Dielectric Strength:

between contacts & case for 1 minute minimum

50,000 operations minimum Mechanical Life: Electrical Life: 50,000 operations minimum

**Nominal Operating Force:** 2.16N

> Pretravel .043" (1.1mm) Travel:

> > Overtravel .022" (0.57mm) Total Travel .065" (1.67mm)

#### Materials & Finishes

Plunger: **Polyacetal** 

**Bushing:** Brass with nickel plating

Case: Phenolic resin

Movable Contactor: Copper with silver or gold plating

Phosphor bronze with silver or gold plating Stationary Contacts: Phosphor bronze with silver or gold plating **Terminals:** 

### **Environmental & Installation Data**

-10°C through +70°C (+14°F through +158°F) **Operating Temp Range:** 

**Soldering Time &** Manual Soldering:

> Temperature: See Profile A in Supplement section.

> > terminations.

#### **SB Series**

3A @ 125V AC or 2A @ 250V AC or

2A @ 30V DC for silver

0.4VA max. @ 28V AC/DC max. for gold (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find explanation of operating range in

Supplement section.

10 milliohms maximum for silver; 20 milliohms maximum for gold 200 megohms minimum @ 500V DC

1,000V AC minimum between contacts

& between contacts & case for 1 minute minimum

30,000 operations minimum 10,000 operations minimum

4.90N

Normally Open

Total Travel .088" (2.24mm)

Normally Closed

Total Travel .088" (2.24mm)

Phenolic resin

Brass with nickel plating

Phenolic resin

Copper with silver or gold plating Copper with silver or gold plating Copper with silver or gold plating

### **Standards & Certifications**

File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" before dash in part number to order UL recognized switch. Models rated 0.5A @ 125V AC Single pole; Momentary action circuit with solder lug

CSA:

## -10°C through +70°C (+14°F through +158°F)

Manual Soldering:

See Profile A in Supplement section.

#### File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" before dash in part number to order UL recognized switch.

Models rated 3A @ 125V AC & 2A @ 250V AC. Single pole: Momentary action circuit with solder lug terminations.

#### File No. 023535 0 000 - Certified only when 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. Single pole: Momentary action circuit with solder lug terminations.



## Optional caps in different colors to vary appearance as needed.

Distinctive Characteristics

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.

Epoxy sealed terminals.







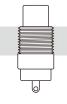


Actual Size SB



FB Bushing Mount

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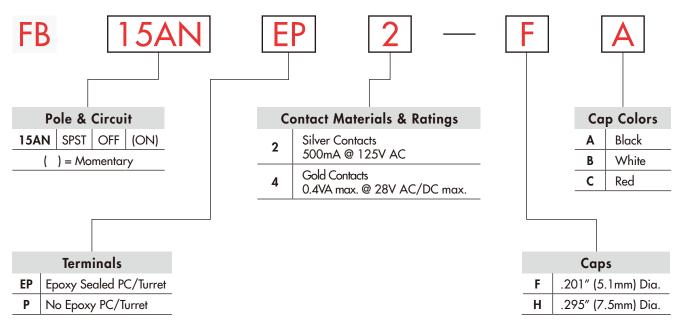


SB Bushing Mount

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## TYPICAL SWITCH ORDERING EXAMPLE



#### **IMPORTANT:**



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

#### **DESCRIPTION FOR TYPICAL ORDERING EXAMPLE**

FB15ANEP2-FA



POLE & CIRCUIT										
		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Switch Schematics				
Pole	Model	Normal <u>I</u>	Down	Normal <u>I</u>	Down		ninal numbers are actually on the switch.			
SP	FB15AN	OFF	(ON)	OPEN	1-2	SPST	1 1 2			



#### **TERMINALS**



**Epoxy Sealed PC/Turret Terminals** 



No Epoxy PC/Turret Terminals

#### **CONTACT MATERIALS & RATINGS**

**Silver Contacts** 

**Power Level** 

500mA @ 125V AC

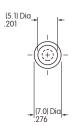
**Gold Contacts** 

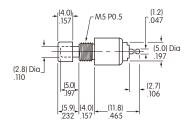
**Logic Level** 

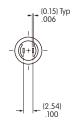
0.4VA maximum @ 28V AC/DC maximum

Complete explanation of operating range in Supplement section.

### TYPICAL SWITCH DIMENSIONS









**PC/Turret** 

Plunger is white polyacetal.

FB15ANEP2-FA

#### **SLIP-ON CAPS & COLORS**



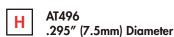
AT475 .201" (5.1mm) Diameter

Material: Polyamide

Finish: Glossy







Material: Polyamide

Finish: Glossy





**Colors Available:** 



Black



White



#### STANDARD HARDWARE & PANEL CUTOUT

AT536 Hex Nut

Material:

Brass with nickel plating





**Panel Thickness:** 

.110" (2.8mm) maximum



**2E** 

2F

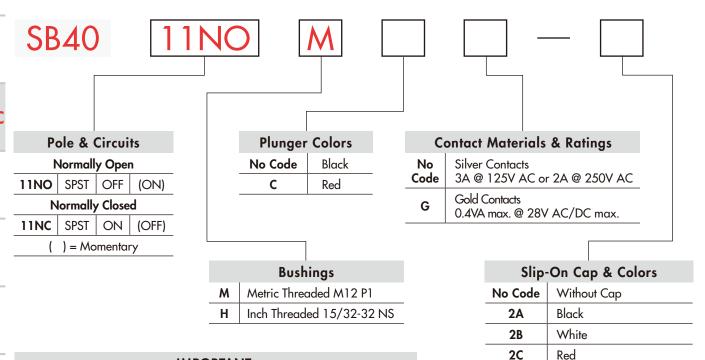
2G

Yellow

Green

Blue





#### **IMPORTANT:**



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

#### **DESCRIPTION FOR TYPICAL ORDERING EXAMPLE**

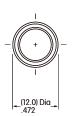
#### **SB4011NOM**

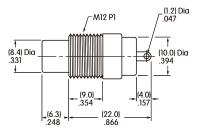


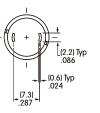
POLE & CIRCUITS										
		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Switch Schematics				
Pole	Model	Normal	Down	Normal	Down					
		1	1	1	•	Note: Terminal numbers are not actually on the switch.				
SP	SB4011NO	OFF	(ON)	OPEN	1-2	NO NC				
	SB4011NC	ON	(OFF)	1-2	OPEN	SPST 1 2 1 2				



#### TYPICAL SWITCH DIMENSIONS





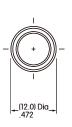


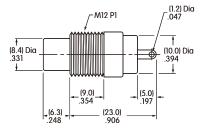
### **Metric Bushing**

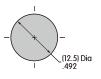




**SB4011NOM** 







Panel Thickness: .157" (4.0mm)

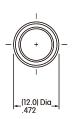
**SB4011NOM** 

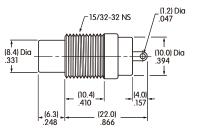
Hardware provided:

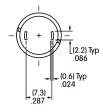
- 1 AT504 Knurled Face Nut
- 1 AT508 Lockwasher
- 1 AT527M Hex Mounting Nut

Details in Hardware & Accessories section.

## **SB4011NCM**

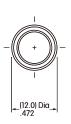




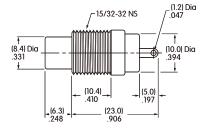


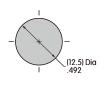
Inch Bushing

**SB4011NOH** 



**SB4011NCH** 





Panel Thickness: .157" (4.0mm)

**SB4011NCH** 

Hardware provided: 2 AT503H Hex Mounting Nuts 1 AT508 Lockwasher

Details in Hardware & Accessories section.

#### **SLIP-ON CAP & COLORS**

#### **AT422** .394" (10.0mm) Diameter Cap







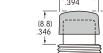


Black

**2C** 



Green



**2B** White

Yellow

Blue

