Rotaries

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General Specifications

FB Series

SB Series

Electrical Capacity (Resistive Load)

500mA @ 125V AC for silver Power Level:

0.4VA max. @ 28V AC/DC max. for gold Logic Level: (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 100 megohms minimum @ 500V DC

Insulation Resistance: Dielectric Strength: 1,000V AC minimum between contacts & between contacts & case for 1 minute minimum

50,000 operations minimum

Mechanical Life: Electrical Life: 50,000 operations minimum

Nominal Operating Force:

Travel: Pretravel .043" (1.1mm)

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

Materials & Finishes

Polyacetal Plunger:

Bushing: Brass with nickel plating

Case: Phenolic resin

Movable Contactor: Copper with silver or gold plating

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

Terminals:

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)

Black: Phenolic resin

Red: Urea formaldehyde 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

Environmental & Installation Data

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

Temperature:

See Profile A in Supplement section.

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

Manual Soldering:

See Profile A in Supplement section.

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

terminations.

CSA:

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.



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.





Actual Size FB



Actual Size SB



FB Bushing Mount

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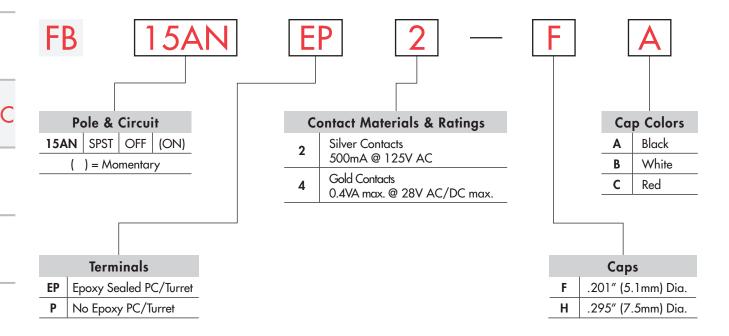


SB Bushing Mount

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TYPICAL SWITCH ORDERING EXAMPLE



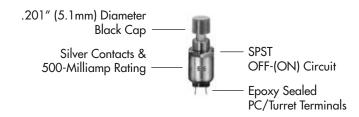
IMPORTANT:



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



| ٠ | POLE & CIRCUIT | | | | | | | | | | | |
|---|----------------|--------|---------------------|----------------------|---------------------|------|--|--|--|--|--|--|
| | | | Plunger () = Mo | Position omentary | Connected Terminals | | Throw & Switch Schematics | | | | | |
| | Pole | Model | Normal | Down | Normal | Down | Note: Terminal numbers are not actually on the switch. | | | | | |
| | SP | FB15AN | OFF | (ON) | OPEN | 1-2 | SPST 1 P 2 | | | | | |

TERMINALS

Epoxy Sealed PC/Turret Terminals



No Epoxy **PC/Turret Terminals**

CONTACT MATERIALS & RATINGS

Silver Contacts

Power Level

500mA @ 125V AC

Gold Contacts

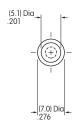
Logic Level

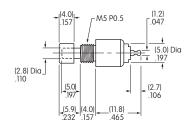
0.4VA maximum @ 28V AC/DC maximum

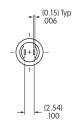
Complete explanation of operating range in Supplement section.

TYPICAL SWITCH DIMENSIONS

PC/Turret









Plunger is white polyacetal.

FB15ANEP2-FA

SLIP-ON CAPS & COLORS



.201" (5.1mm) Diameter

AT496 .295" (7.5mm) Diameter

Material: Polyamide

Finish: Glossy



Material: Polyamide

Finish: Glossy





Colors Available:



Black





STANDARD HARDWARE & PANEL CUTOUT

AT536 Hex Nut

Material:

Brass with nickel plating



Panel Thickness:

.110" (2.8mm) maximum



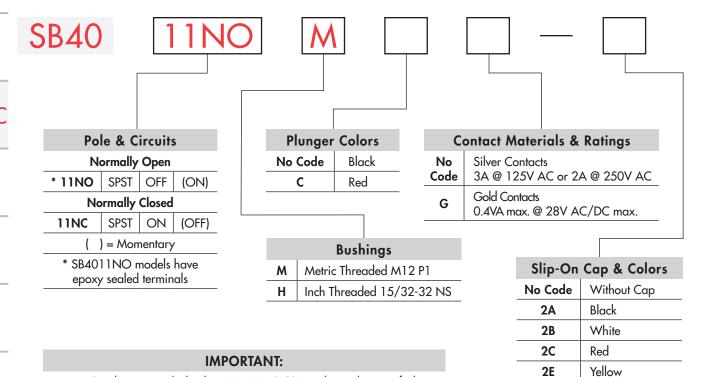
2F

2G

Green

Blue

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

Switches are supplied without UL, cULus & CSA marking unless specified.

Specifications page.

UL, cULus & CSA recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on the General

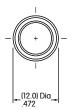
SB4011NOM

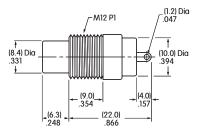


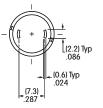
| | | POLE & CIRCUITS | | | | | | | | | |
|---|------|-----------------|----------------------------------|-------|---------------------|------|--|--|--|--|--|
| | | | Plunger Position () = Momentary | | Connected Terminals | | Throw & Switch Schematics | | | | |
| | Pole | Model | Normal | Down | Normal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



TYPICAL SWITCH DIMENSIONS





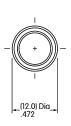


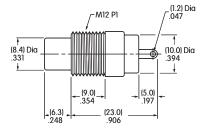
Metric Bushing

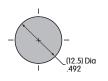




SB4011NOM







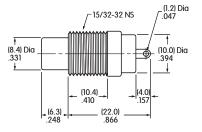
SB4011NOM

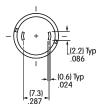
Hardware provided: 1 AT504 Knurled Face Nut 1 AT508 Lockwasher 1 AT527M Hex Mounting Nut

Details in Hardware & Accessories section.

SB4011NCM

Panel Thickness: .157" (4.0mm)

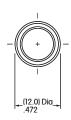




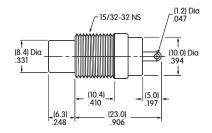
Inch Bushing

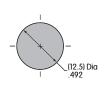


SB4011NOH



SB4011NCH





Panel Thickness: .157" (4.0mm)

SB4011NCH

Hardware provided: 2 AT503H Hex Mounting Nuts 1 AT508 Lockwasher

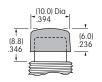
Details in Hardware & Accessories section.

SLIP-ON CAP & COLORS

AT422 .394" (10.0mm) Diameter Cap

Material: Polyethylene Finish: Matte









Green

Blue

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MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

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1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

1301940184 RELBARF6X10(PLASTIC)