

# Series FB & SB

### **Momentary Pushbuttons**

# General Specifications

**FB Series** 

**SB Series** 

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

10 milliohms maximum for silver; 20 milliohms maximum for gold

30,000 operations minimum

10,000 operations minimum

Total Travel .088" (2.24mm)

Total Travel .088" (2.24mm)

Copper with silver or gold plating

Copper with silver or gold plating

Copper with silver or gold plating

4.90N

Normally Open

Normally Closed

Phenolic resin

Phenolic resin

Brass with nickel plating

200 megohms minimum @ 500V DC

1.000V AC minimum between contacts

& between contacts & case for 1 minute minimum

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

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: Find explanation of operating range in

2A @ 30V DC for silver

Supplement section.

**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.

ooppiemem section

Other Ratings

Contact Resistance: 30 milliohms maximum for silver;

30 milliohms maximum for gold

Insulation Resistance: 100 megohms minimum @ 500V DC

**Dielectric Strength:** 1,000V AC minimum between contacts &

between contacts & case for 1 minute minimum

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

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

Nominal Operating Force: 2.16N

Travel: Pretravel .043" (1.1mm)

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

Stationary Contacts: Phosphor bronze with silver or gold plating

**Terminals:** Phosphor bronze 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** 

UL: 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.

For further details and order enquiries please contact 4Most: T: +44 (0) 1371 811 171 E: sales@4most.co.uk

1



### **Momentary Pushbuttons**

# Series FB & SB

# 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.

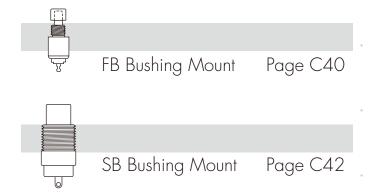
Reliability of construction with an internal guide to maintain contact alignment.

Epoxy sealed terminals.





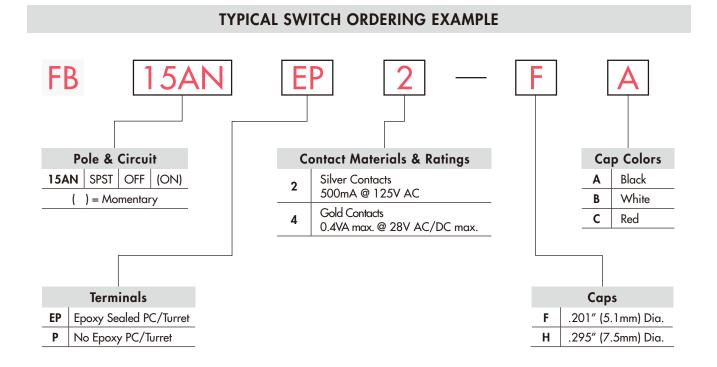






# **Series FB**

### .5 Amp Momentary Pushbuttons



#### **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 	Down	Normal	Down		ninal numbers are actually on the switch.			
SP	FB15AN	OFF	(ON)	OPEN	1-2	SPST	1 0 2			



### .5 Amp Momentary Pushbuttons

# **Series FB**





**Epoxy Sealed PC/Turret Terminals** 



No Epoxy **PC/Turret Terminals** 

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

**Silver Contacts** 

**Power Level** 

500mA @ 125V AC

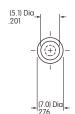
**Gold Contacts** 

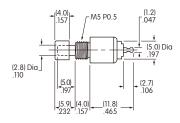
Logic Level

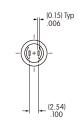
0.4VA maximum @ 28V AC/DC maximum

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







AT496 .295" (7.5mm) Diameter

Material: Polyamide

Finish: Glossy



**Colors Available:** 



Black



White



#### STANDARD HARDWARE & PANEL CUTOUT

AT536 Hex Nut

Material:

Brass with nickel plating





**Panel Thickness:** 

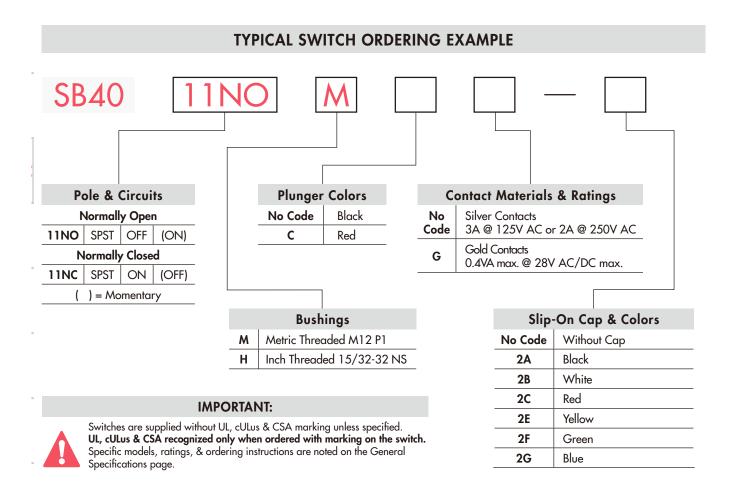
.110" (2.8mm) maximum





## **Series SB**

### 3 Amp Momentary Pushbuttons



#### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

#### **SB4011NOM**



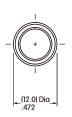
.	POLE & CIRCUITS										
		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Switch Schematics					
-		Model	Normal	Down	Normal	Down					
	Pole		•	•	1	•	Note: Terminal numbers are not actually on the switch.				
	CD	SB4011NO	OFF	(ON)	OPEN	1-2	NO NC				
	SP	SB4011NC	ON	(OFF)	1-2	OPEN	SPST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

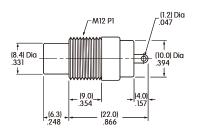


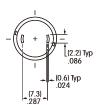
### 3 Amp Momentary Pushbuttons

# **Series SB**

#### TYPICAL SWITCH DIMENSIONS



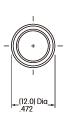


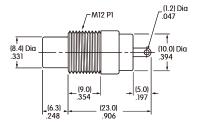


Metric Bushing



**SB4011NOM** 





- (12.5) Dia

**SB4011NOM** 

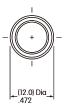
Hardware provided:

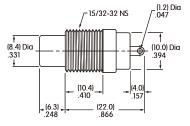
- 1 AT504 Knurled Face Nut
- 1 AT508 Lockwasher
- 1 AT527M Hex Mounting Nut

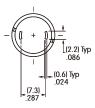
Details in Hardware & Accessories section.

**SB4011NCM** 





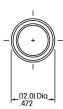




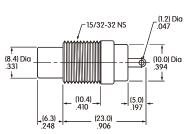
### Inch Bushing



**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

Material: Polyethylene Finish: Matte







Black



Red



Green



2B Whit

**2E** 

Yellov

2G

Blue