### Features/Benefits

- Up to 10 poles per module
- Various contact terminals
- Various mounting & switch ganging configurations
- Mechanical indicator buttons
- RoHS compliant

### Specifications

- SWITCHING POWER: F module max. AC/DC: Silver: 50 VA/15W, Gold: 1 VA/300 mW.
- SWITCHING VOLTAGE: F module max. AC/DC: Silver: 125/30V, Gold: 50/30 V.
- SWITCHING CURRENT: F module max. AC/DC: Silver: 0.5A/0.5A, Gold: 0.04A/0.01A.
- CARRYING CURRENT: Max at  $\Delta u = 20^{\circ}$ C: Silver: < 2A, Gold: <0.5A.
- DIELECTRIC STRENGTH (50 Hz, 1 min.): Chassis/contact: ≥1500V Between contacts: ≥1500V.
- OPERATING LIFE "OA/EE" (24V/200mA): >10^5 operations "GR": >3.5 x  $10^4$  operations.
- CONTACT RESISTANCE: Initial: Typical  ${\leq}10~m\Omega,~max.~20~m\Omega$  After operating life:  ${\leq}100~m\Omega$
- INSULATION RESISTANCE:  ${\geq}10^9~\Omega$  between open contacts,  ${\geq}10^9~\Omega$  between chassis and contacts.
- CAPACITANCE (at f = 10 kHz):  $\leq$ 0.7 pF between 2 contacts.
- TOTAL TRAVEL/LATCHING TRAVEL: 4.7mm/3.3mm (.185 inch/.130 inch).

All models and options are RoHS compliant and compatible.

NOTE: All models and options are RoHS compliant and compatible.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

TYPICAL F OPERATING FORCE: 2U: 6.5N (650 grams); 4U: 6.5N (650 grams); 6U: 7.5N (750 grams); 8U: 9.0N (900 grams); 10U: 9.0N (900 grams).

EUROPEAN TYPICAL SF OPERATING FORCE:

2U: 3.5N±0.5N (350 grams±100 grams); 4U: 5N±1N (500 grams±100 grams); 6U: 6.5N±1N (650 grams±100 grams); 8U: 9.0N±1N (900 grams±100 grams).

OPERATING TEMPERATURE RANGE: -40°C to 70°C.

### **Materials**

**Typical Applications** 

Digital equipment interface

Medical equipment interface

Audio selection

HOUSING: Polycarbonate UL 94V-0 or polyester UL 94V-0.

ACTUATOR: Polyester UL 94V-0.

MOVABLE CONTACTS: Bimetal brass, silver plated, gold plate over nickel.

STATIONARY CONTACTS & TERMINALS: Brass, silver plated, gold plated.

TERMINAL BOARD: Polyester UL 94V-0.

RETURN SPRING: Music wire.

TERMINAL SEAL: RTV adhesive sealant.

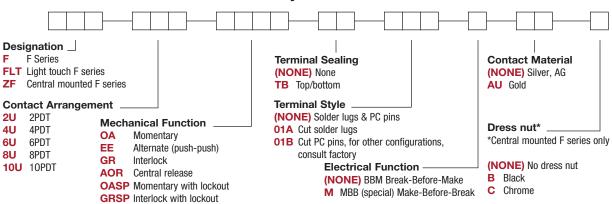
- CHASSIS: Steel.
- LOCKOUT PIN: Steel.

BLOCKERS: Steel.

### **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-88 thru A-95. For additional options not shown in catalog, consult Customer Service Center. If requesting only a switch, select either a North American or European switch as noted below. Chassis and buttons are sold separately. If multiple stations are selected, we will assume all switches are the same unless noted otherwise.

## North American Order Code - Switch Only



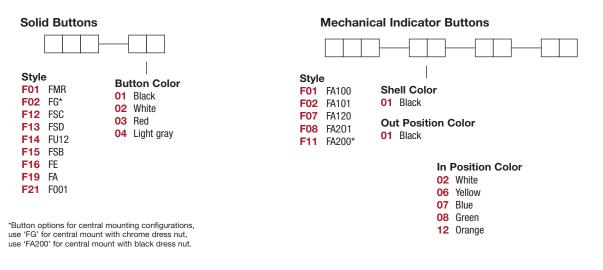




#### **European Order Code - Switch Only** Designation SF F Series **Terminal Style Contact Material ZF** Central mounted F series (NONE) Solder lugs & (NONE) Silver, AG P Gold PC pins **Contact Arrangement** LB Cut solder lugs **Dress nut\*** 2U 2PDT PB Cut PC pins, for other **Mechanical Function** \*Central mounted F series only **4U** 4PDT configurations, **OA** Momentary 6U 6PDT consult factory EE Alternate (push-push) (NONE) No dress nut 8U 8PDT **GR** Interlock **Electrical Function** в Black (NONE) BBM С Chrome

\*Minimum order quantities apply.

### **Order Code - Buttons**



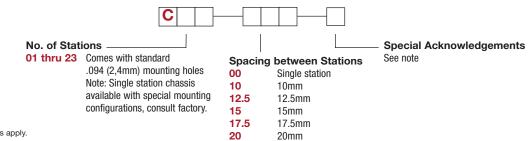
### **BUTTON REMOVAL**

A button of a push-push switch should only be removed in the "OFF" non-latching position.

### **Order Code - Chassis**

To order a switch with chassis, create the switch part number listed above and add the Chassis part number configurator information at the end of the part number.

Note: We do not guarantee or recommend interlocking beyond 10 stations.



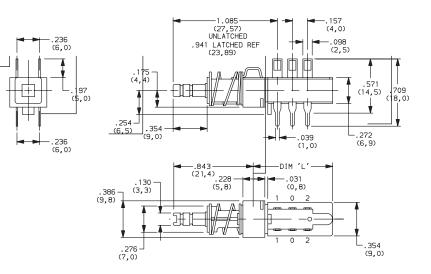


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

# SWITCHES WITH STANDARD OPTIONS

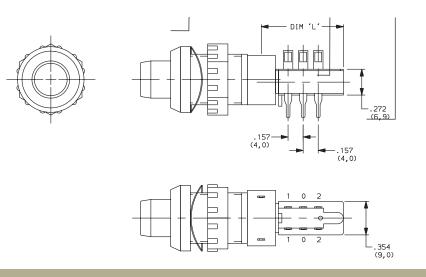
## F2UEE

	CONTACT ARRANGEMENT	LENGTH DIM 'L'
	2U	0.827 (21,00)
T	4U	1.300 (33,00)
Τ	6U	1.770 (45,00)
T	8U	2.240 (57,00)
Ι	10U	2.720 (69,00)



# ZF2UEEBF11010108

CONTACT ARRANGEMENT	LENGTH DIM 'L'	
2U	0.827 (21,00)	
4U	1.300 (33,00)	
6U	1.770 (45,00)	
8U	2.240 (57,00)	
10U	2.720 (69,00)	



# DESIGNATION

### **Designation, North America**

F F Series

**C**&K

FLT Light touch F series

**ZF** Central mounted F series

## Designation, Europe

## SF F Series

**ZF** Central mounted F series

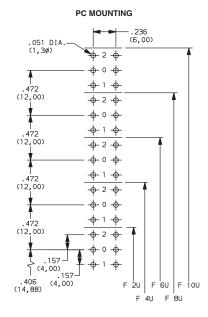




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#### 

OPTION CODE	NO. OF POLES	SCHEMATIC
		• 0 • 0
2U	2PDT	1 • • 2 1 • • 2
4U	4PDT	2X 1 0 0 0 2X 1 0 2 1 0 2
6U	6PDT	3X 1 0 0 0 3X 1 0 2 1 0 2
8U	8PDT	4X 1 0 0 0 4X 1 0 2 1 0 2
10U	10PDT	5X 1 • 0 • 0 • 2



#### 

### North America

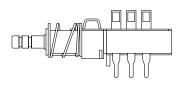
OPTION CODE	FUNCTION	
OA	Momentary	
EE	Alternate (push-push)	
GR	Interlock	
AOR	Central release	
OASP	Momentary with lockout	
GRSP	Interlock with lockout	

### Europe

OPTION CODE	FUNCTION	
OA	Momentary	
EE	Alternate (push-push)	
GR Interlock		

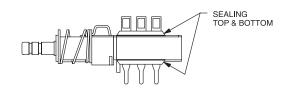
## TERMINAL SEALING

(NONE) NO SEAL



F2UEE shown in example above.

### ТВ ТОР & ВОТТОМ



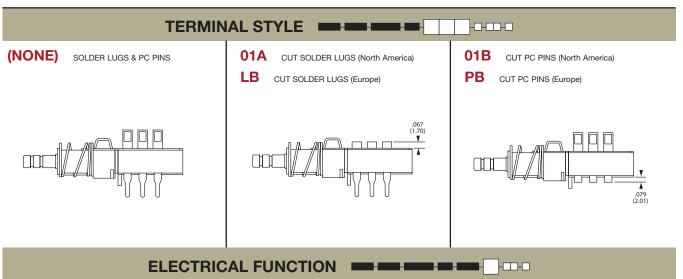
NOTE: Available for North America only



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

 $\bigcirc$ 

Third Angle Projection

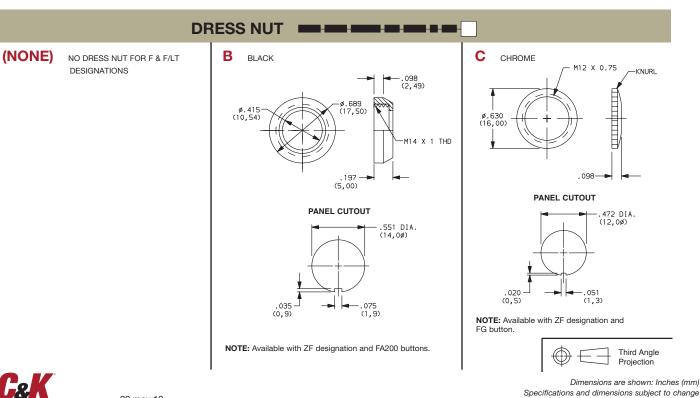


OPTION CODE	FUNCTION
(NONE)	BBM Non-shorting
м	MBB Shorting (North America only)

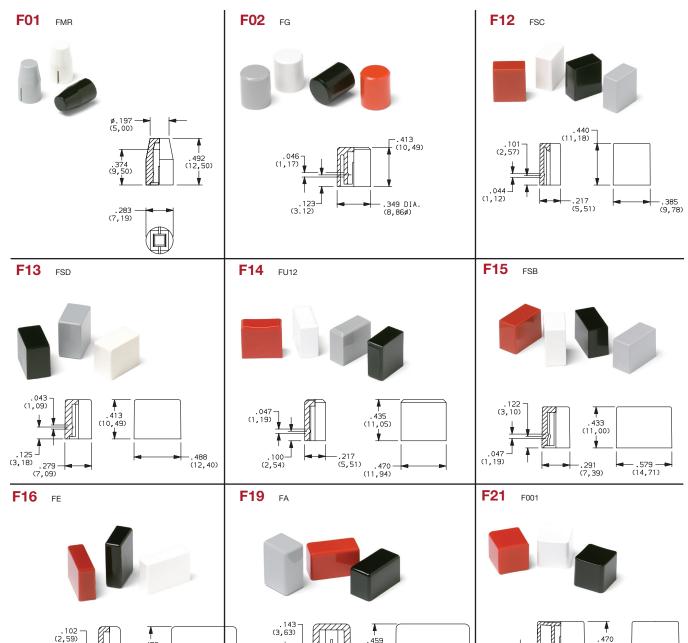
## CONTACT MATERIAL

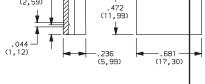
NORTH AMERICA OPTION CODE	EUROPE OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	MATERIAL	RATING
(NONE)	(NONE)	YES	YES	SILVER, AG	50 VA/15 W; 125/30 V; 0.5/0.5 A
AU	Р	YES	YES	GOLD	1 VA/300mW; 50/30 V; 0.04 A/0.01 A

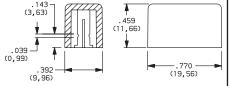
\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



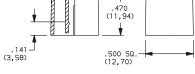
# **F** Series **Pushbutton Switches** COLOR **SOLID BUTTON STYLE**







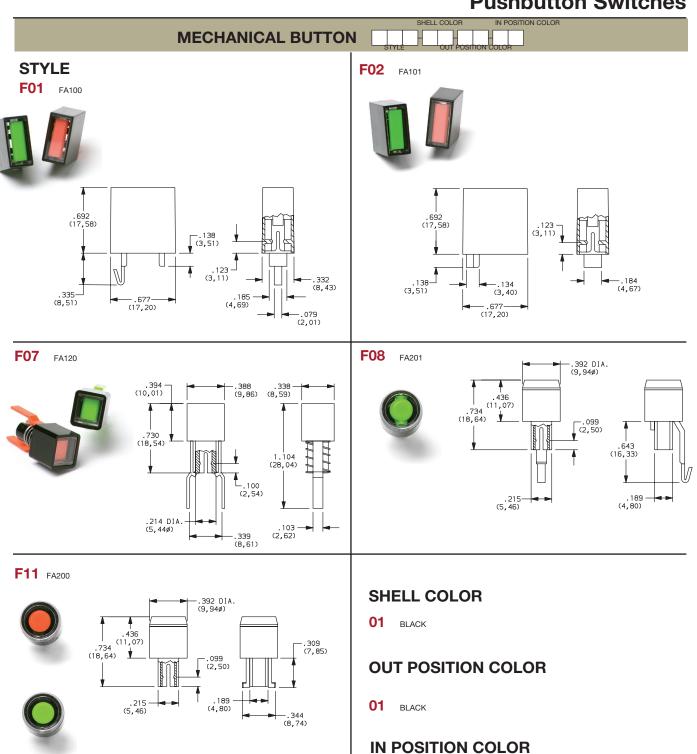
OPTION CODE	COLOR		
01	BLACK		
02	WHITE		
03	RED		
04	LT. GRAY		



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

**C**&K



OPTION CODE	COLOR
02	WHITE
06	YELLOW
07	BLUE
08	GREEN
12	ORANGE



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ckswitches.com

# CHASSIS

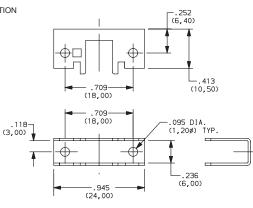
# NUMBER OF STATIONS

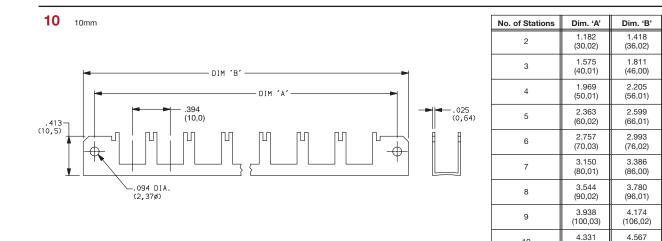
C00 Thru C10 Comes with standard 0.094 (2,44mm) mounting holes

NOTE: Single station chassis available with mounting configurations, consult factory.

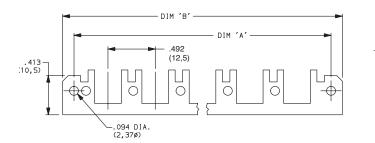
## **SPACING**

00 SINGLE STATION





12.5 12.5mm



No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.200 (30,48)	1.436 (36,47)	0.005
3	1.692 (42,98)	1.928 (48,97)	0.010
4	2.184 (55,47)	2.420 (61,47)	0.010
5	2.676 (67,97)	2.912 (73,96)	0.010
6	3.169 (80,49)	3.405 (86,49)	0.015
7	3.661 (92,99)	3.897 (98,98)	0.015
8	4.153 (105,49)	4.389 (111,48)	0.015
9	4.645 (117,98)	4.881 (123,98)	0.015
10	5.137 (130,48)	5.373 (136,47)	0.015

(110,01)

(116,00)

10

.025 (0,64)

Third Angle

Specifications and dimensions subject to change

 $\bigcirc$ Projection Dimensions are shown: Inches (mm)

Tolerance

0.005

0.010

0.010

0.010

0.015

0.015

0.015

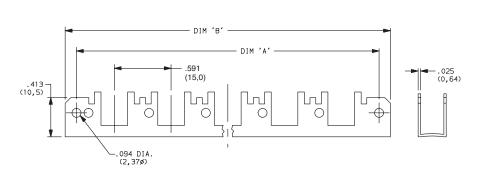
0.015

0.015

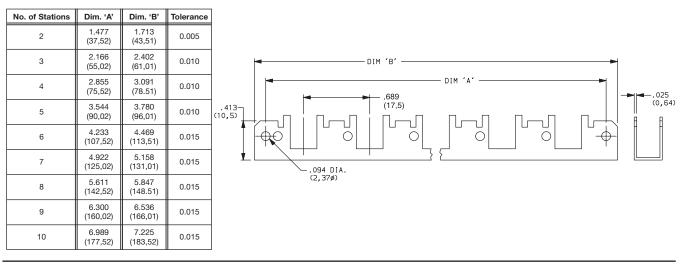
# CHASSIS

# SPACING

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.374 (34,90)	1.615 (41,02)	0.005
3	1.969 (50,01)	2.205 (56,01)	0.010
4	2.560 (65,02)	2.796 (71,02)	0.010
5	3.150 (80,01)	3.386 (86,00)	0.010
6	3.741 (95,02)	3.977 (101,02)	0.015
7	4.332 (110,03)	4.568 (116,03)	0.015
8	4.922 (125,02)	5.158 (131,01)	0.015
9	5.513 (140,03)	5.749 (146,02)	0.015
10	6.103 (155,02)	6.339 (161,01)	0.015



### 17.5 17.5mm





1.575	4.044		
(40,01)	1.811 (46,00)	0.005	
2.363 (60,02)	2.599 (66,01)	0.010	DIM 'B'
3.150 (80,01)	3.386 (86,00)	0.010	DIM 'A'
3.938 (100,03)	4.174 (106,02)	0.010	
4.725 (120,02)	4.961 (126,01)	0.015	
5.512 (140,00)	5.748 (146,00)	0.015	
6.300 (160,02)	6.536 (166,01)	0.015	
7.087 (180,01)	7.323 (186,00)	0.015	
7.875 (200,03)	8.111 (206,02)	0.015	
	2.363 (60,02) 3.150 (80,01) 3.938 (100,03) 4.725 (120,02) 5.512 (140,00) 6.300 (160,02) 7.087 (180,01) 7.875	2.363 (60,02)         2.599 (66,01)           3.150 (80,01)         3.386 (86,00)           3.938 (100,03)         4.174 (106,02)           4.725 (126,01)         4.961 (126,01)           5.512 (140,00)         5.748 (146,00)           6.300 (166,01)         6.536 (166,01)           7.087 (180,01)         7.323 (186,00)           7.875         8.111	2.363 (60,02)         2.599 (66,01)         0.010           3.150 (80,01)         3.386 (86,00)         0.010           3.938 (100,03)         4.174 (106,02)         0.010           4.725 (120,02)         4.961 (126,01)         0.015           5.512 (140,00)         5.748 (146,00)         0.015           6.300 (160,02)         6.536 (166,01)         0.015           7.087 (180,01)         7.323 (186,00)         0.015           7.875         8.111         0.015



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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