Features/Benefits

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

Typical Applications

- Audio selection
- Digital equipment interface
- Medical equipment interface



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 du = 20C: Silver: < 2A, Gold: <0.5A.

DIELECTRIC STRENGTH (50 Hz, 1 min.): Chassis/contact: ^1500V Between contacts: ^1500V.

OPERATING LIFE "OA/EE" (24V/200mA): >10⁵ operations "GR": >3.5 x 104 operations.

CONTACT RESISTANCE: Initial: Typical %10 m Ω , max. 20 m Ω After operating life: $\%100 \text{ m}\Omega$

INSULATION RESISTANCE: 109 Ω between open contacts. $^{109} \Omega$ between chassis and contacts.

CAPACITANCE (at f = 10 kHz): %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

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

ACTUATOR: Polyester UL 94V-0.

MOVABLE CONTACTS: Bimetal brass, silver plated, gold plate

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

TERMINAL BOARD: Polyester UL 94V-0.

RETURN SPRING: Music wire.

TERMINAL SEAL: RTV adhesive sealant.

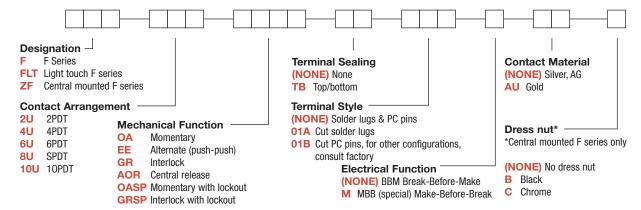
CHASSIS: Steel. LOCKOUT PIN: Steel. BLOCKERS: Steel.

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-89 thru A-97. For additional options not shown in catalog, consult Customer Service Center.

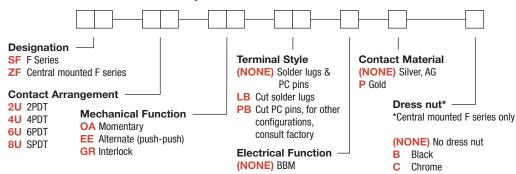
If requesting only a switch, select either a North American or European switch as noted below. Chassis and buttons are sold separately. If multiple stations are selected, we will assume all switches are the same unless noted otherwise.

North American Order Code - Switch Only



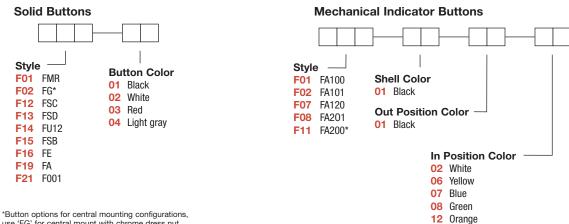


European Order Code - Switch Only



^{*}Minimum order quantities apply.

Order Code - Buttons



use 'FG' for central mount with chrome dress nut, use 'FA200' for central mount with black dress nut.

BUTTON REMOVAL

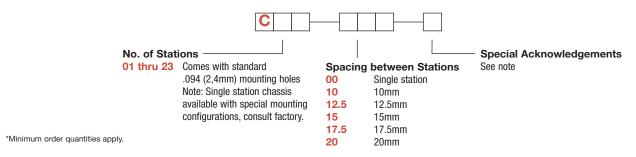
A button of a push-push switch should only be removed in the "OFF" non-latching position.



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.

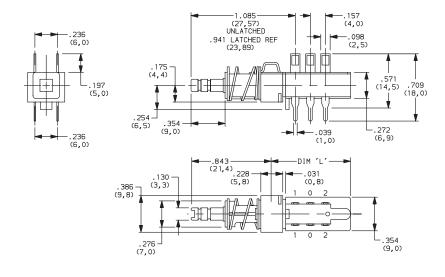
Note: We do not guarantee or recommend interlocking beyond 10 stations.



SWITCHES WITH STANDARD OPTIONS

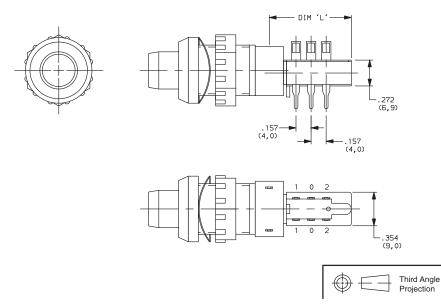
F2UEE

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)	



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)





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

DESIGNATION

Designation, North America

F Series

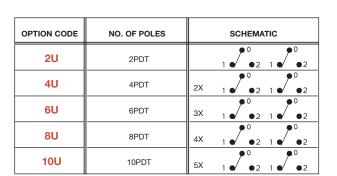
FLT Light touch F series Central mounted F series

Designation, Europe

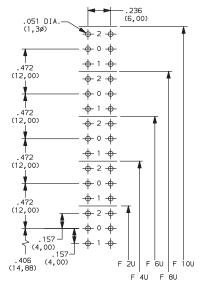
SF F Series

ZF Central mounted F series

CONTACT ARRANGEMENT



PC MOUNTING



MECHANICAL FUNCTION =

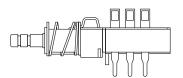
North America

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		

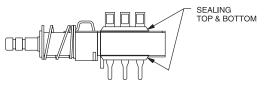
TERMINAL SEALING



F2UEE shown in example above.



1-----



NOTE: Available for North America only



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



(NONE)

NO SEAL

(NONE)

F Series Pushbutton Switches

SOLDER LUGS & PC PINS O1A CUT SOLDER LUGS (North America) LB CUT SOLDER LUGS (Europe) PB CUT PC PINS (Europe) PB CUT PC PINS (Europe)

OPTION CODE	FUNCTION
(NONE)	BBM Non-shorting

ELECTRICAL FUNCTION

CONTACT MATERIAL

MBB Shorting (North America only)

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

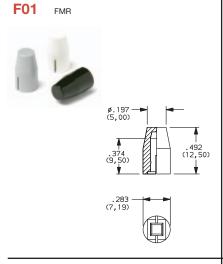
^{*} Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

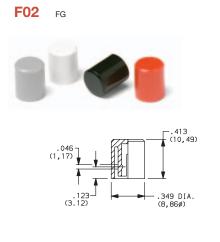
DRESS NUT (NONE) NO DRESS NUT FOR F & F/LT BLACK CHROME M12 X 0.75 **DESIGNATIONS** -KNURL .098 (2,49) M14 X 1 THD .197 PANEL CUTOUT .472 DIA. (12,0ø) PANEL CUTOUT .551 DIA. (14,0ø) **NOTE:** Available with ZF designation and FG button. NOTE: Available with ZF designation and FA200 buttons. Third Angle Projection

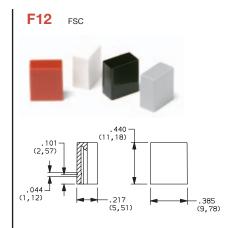


SOLID BUTTON

STYLE

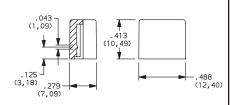






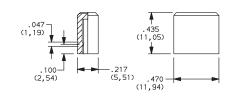












OPTION CODE	COLOR	
01	BLACK	
02	WHITE	
03	RED	
04	LT. GRAY	

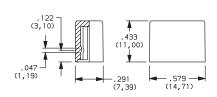


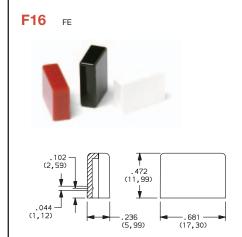
SOLID BUTTON

STYLE



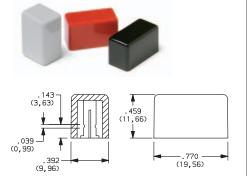


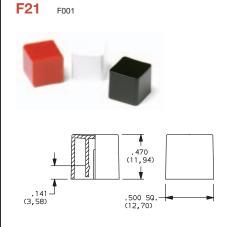




OPTION CODE	COLOR	
01	BLACK	
02	WHITE	
03	RED	
04	LT. GRAY	

F19 FA

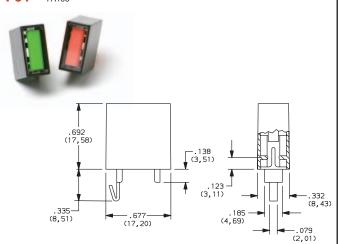


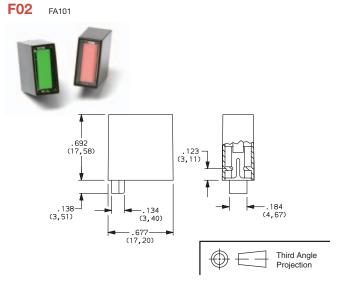


MECHANICAL BUTTON

STYLE

F01 FA100







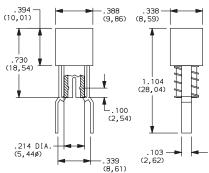
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

MECHANICAL BUTTON

STYLE

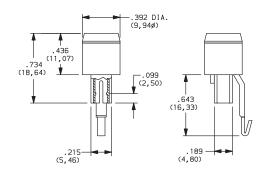






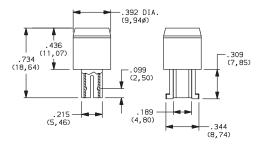
F08 FA201





F11 FA200





SHELL COLOR

01 BLACK

OUT POSITION COLOR

BLACK

IN POSITION COLOR

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





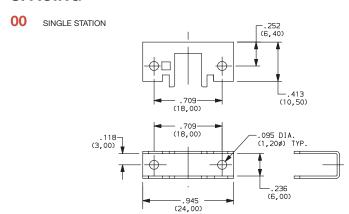
CHASSIS SPACING

NUMBER OF STATIONS

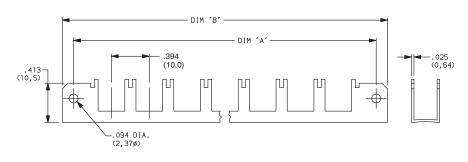
C00 Thru C10 Comes with standard 0.094 (2,44mm) mounting holes

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

SPACING

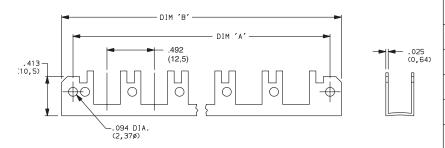


10 10mm



No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.182 (30,02)	1.418 (36,02)	0.005
3	1.575 (40,01)	1.811 (46,00)	0.010
4	1.969 (50,01)	2.205 (56,01)	0.010
5	2.363 (60,02)	2.599 (66,01)	0.010
6	2.757 (70,03)	2.993 (76,02)	0.015
7	3.150 (80,01)	3.386 (86,00)	0.015
8	3.544 (90,02)	3.780 (96,01)	0.015
9	3.938 (100,03)	4.174 (106,02)	0.015
10	4.331 (110,01)	4.567 (116,00)	0.015

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	



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

