Features/Benefits

- Up to 10 poles per module
- · Various contact terminals
- Various mounting & switch ganging configurations
- Mechanical indicator buttons
- Illumination options

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 m Ω

INSULATION RESISTANCE: ^ $10^9~\Omega$ between open contacts, ^ $10^9~\Omega$ 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/

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).

Materials

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.

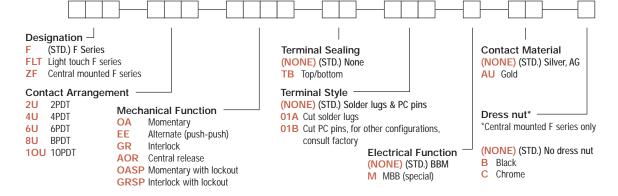
Build-A-Switch

.130 inch)

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-96. 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

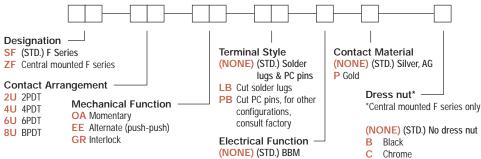




Dimensions are shown: IN (mm) Dimensions subject to change

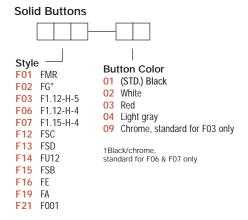
www.ittcannon.com

European Order Code - Switch Only

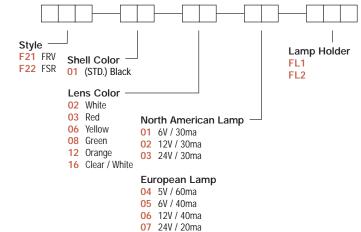


*Minimum order quantities apply.

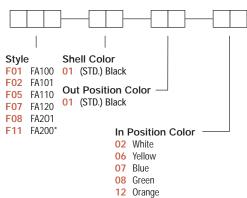
Order Code - Buttons



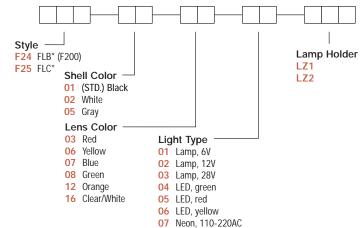
Illuminated Buttons with Chassis



Mechanical Indicator Buttons



Central Mounted Illuminated Buttons



*Button options for central mounting configurations, use 'FG' for central mount with chrome dress nut, use 'FA200', 'FLB' or 'FLC' for central mount with black dress nut.

BUTTON REMOVAL

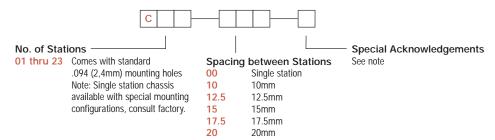
A button of a push-push switch should only be removed in the "OFF" non-latching position.



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.

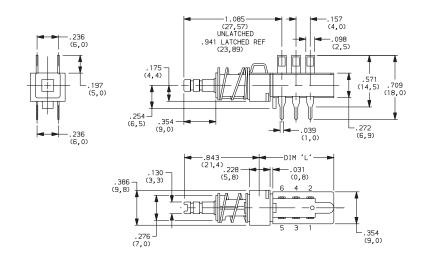


^{*}Minimum order quantities apply.

SWITCHES WITH STANDARD OPTIONS

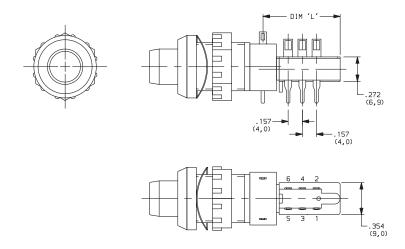
F2UEE

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)



ZF2UEEBF25010802LZ1

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: IN (mm) Dimensions subject to change

DESIGNATION

Designation, North America

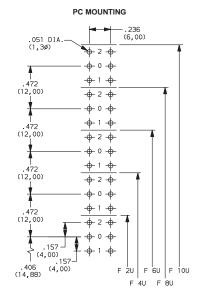
(STD.) F Series FLT Light touch F series Central mounted F series Designation, Europe

SF (STD.) F Series **ZF** Central mounted F series

CONTACT ARRANGEMENT -



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



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

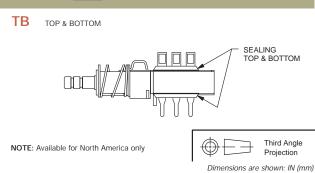
OPTION CODE	FUNCTION	
OA	Momentary	
EE	Alternate (push-push)	
GR	Interlock	

TERMINAL SEALING

(NONE) (STD.) NO SEAL

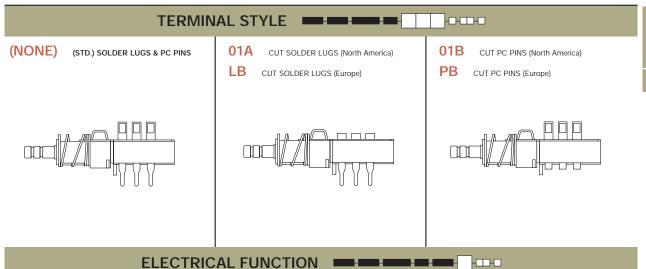


F2UEE shown in example above.





Cannon



OPTION CODE	FUNCTION
(NONE) (STD.)	BBM Non-shorting
N/I	MDD Shorting (North America only)

CONTACT MATERIAL

NORTH AMERICA OPTION CODE	EUROPE OPTION CODE	MATERIAL	RATING
(NONE) (STD.)	(NONE) (STD.)	Silver, AG	50 VA/15 W; 125/30 V; 0.5/0.5 A
AU	Р	GOLD	1 VA/300mW; 50/30 V; 0.04 A/0.01 A

DRESS NUT (NONE) (STD.) NO DRESS NUT BLACK CHROME FOR F & F/LT DESIGNATIONS M12 X 0.75 -KNURI ø.630 (16.00) -M14 X 1 THD .197 .098 PANEL CUTOUT PANEL CUTOUT .472 DIA. (12,0ø) .551 DIA. (14,0ø) .020 .035 NOTE: Available with ZF designation and FG button. NOTE: Available with ZF designation and Third Angle FA200, FLB or FLC buttons. Projection Dimensions are shown: IN (mm)



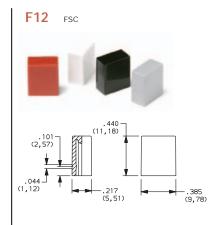
.349 DIA. (8,86ø)

STYLE









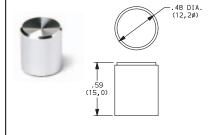
F13











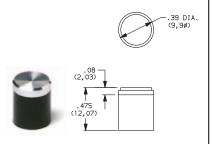
F03

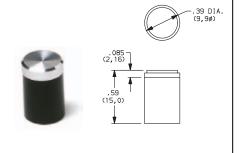
F1.12-H-5

.413 -.488 (12,40)

F06

F07 F1.12-H-4 F1.15-H-4

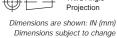




OPTION CODE	COLOR
01	(STD.) BLACK
02	WHITE
03	RED
04	LT. GRAY
09	BLACK/CHROME (F03,F06 & F07 buttons only



Ca	n	n	\cap	r



Third Angle

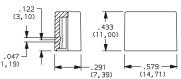


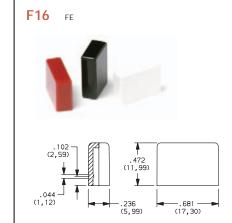
STYLE



F19 FA



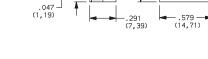




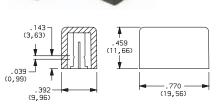
F21

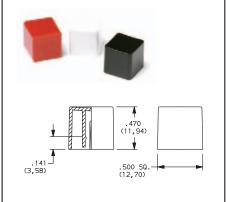
F001

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







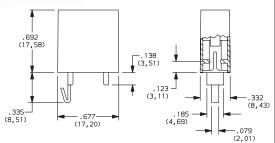


	SH	IELL COLOR	IN POSITION COLUR
MECHANICAL BUTTON			
	STYLE	OUT POSITION	COLOR

STYLE

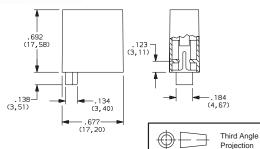










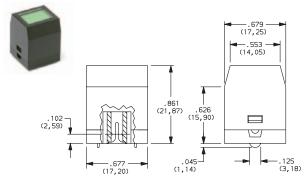


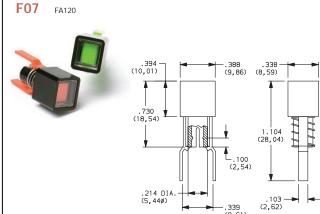
Dimensions are shown: IN (mm) Dimensions subject to change Pushbutton

MECHANICAL BUTTON

STYLE

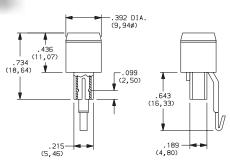
F05 FA110





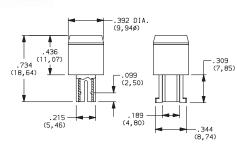
F08 FA201











SHELL COLOR

01 (STD.) BLACK

IN POSITION COLOR

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

OUT POSITION COLOR

01 (STD.) BLACK





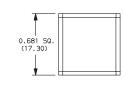
ILLUMINATED BUTTON WITH CHASSIS

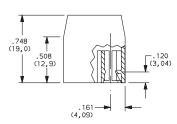


STYLE

F21 FRV



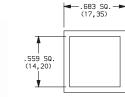


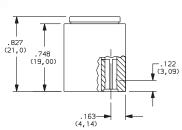


F22

FSR







SHELL COLOR

01 (STD.) BLACK

LENS COLOR

OPTION CODE	COLOR
02	WHITE
03	RED
06	YELLOW
08	GREEN
12	ORANGE
16	CLEAR / WT.

LAMP

North America

OPTION CODE	LAMP
01	6V / 30mA
02	12V / 30mA
03	24V / 30mA

Europe

OPTION CODE	LAMP
04	5V / 60mA
05	6V / 40mA
06	12V / 40mA
07	24V / 20mA

LAMP HOLDER

OPTION CODE	DESCRIPTION
FL1	Standard version. No electrical connection to module. Lamps are illuminated by applying voltage to the solder lugs of the lampholder contacts.
FL2	For use only on modules with solder lugs on top face. One of the lampholder contacts is electrically linked with the module by means of a blade spring connecting the normally closed contact of the left side front change



