#### 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):  $>10^5$  operations "GR":  $>3.5 \times 104$  operations.

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

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/.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 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.

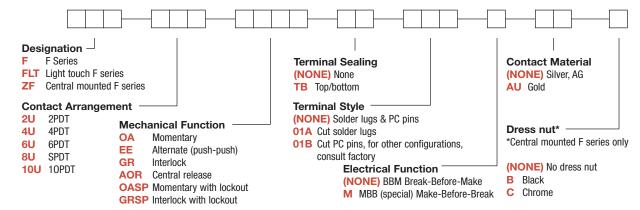
CHASSIS: Steel.
LOCKOUT PIN: Steel.
BLOCKERS: Steel.

#### **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.

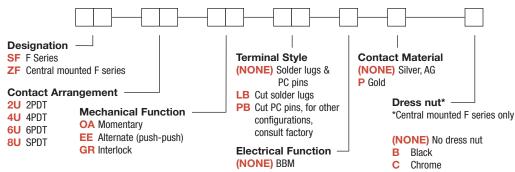
If requesting only a switch, select either a North American or European switch as noted below. Chassis and buttons are sold separately. If multiple stations are selected, we will assume all switches are the same unless noted otherwise.

#### North American Order Code - Switch Only



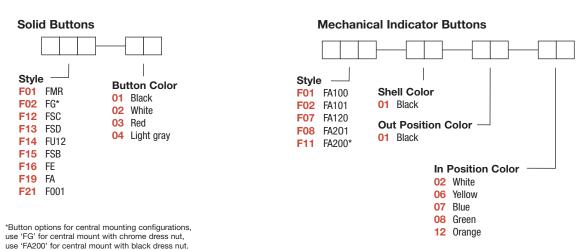


#### **European Order Code - Switch Only**



\*Minimum order quantities apply.

#### **Order Code - Buttons**



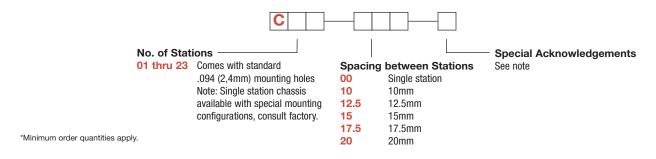
#### **BUTTON REMOVAL**

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.

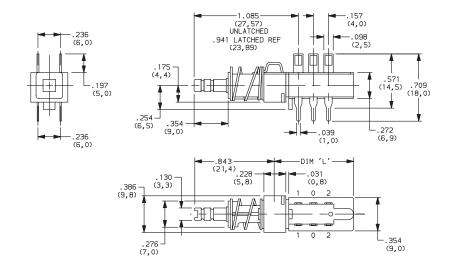




### **SWITCHES WITH STANDARD OPTIONS**

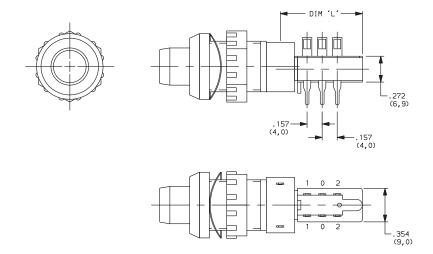
# **F2UEE**

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)



**DESIGNATION** 

#### **Designation, North America**

F F Series

FLT Light touch F series

ZF Central mounted F series

Designation, Europe

SF F Series

**ZF** Central mounted F series

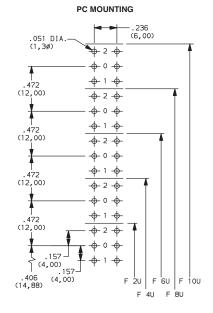






#### 

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



1-----

#### 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

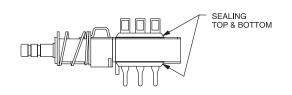
OPTION CODE	FUNCTION
OA	Momentary
EE	Alternate (push-push)
GR	Interlock

# TERMINAL SEALING



F2UEE shown in example above.

ТВ тор & воттом

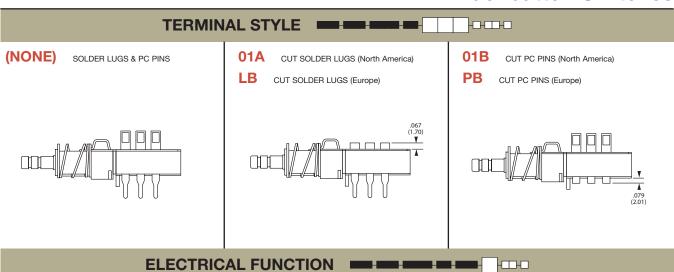


NOTE: Available for North America only



(NONE) NO SEAL





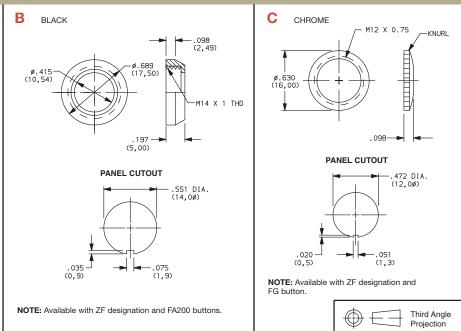
OPTION CODE	FUNCTION
(NONE)	BBM Non-shorting
M	MBB Shorting (North America only)

# 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

 $<sup>^{\</sup>star}$  Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

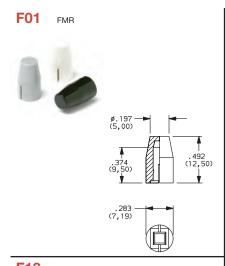
# 





# SOLID BUTTON COLOR

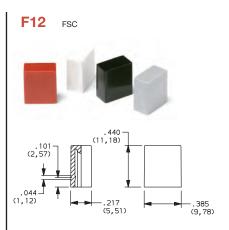
# **STYLE**

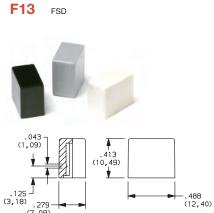


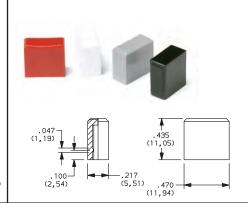


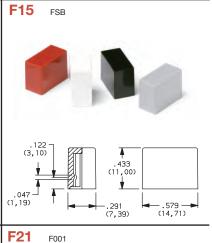
F14

FU12

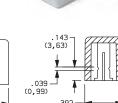






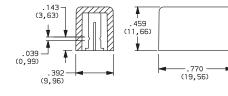






**F19** FA





<u> </u>	.470 (11,94)	
.141 J (3,58)	.500 SQ (12,70)	-

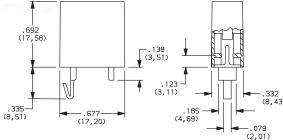
OPTION CODE	COLOR	
01	BLACK	
02	WHITE	
03	RED	
04	LT. GRAY	





F01 FA100

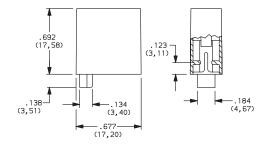




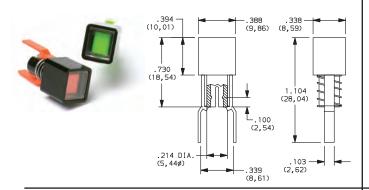


**MECHANICAL BUTTON** 

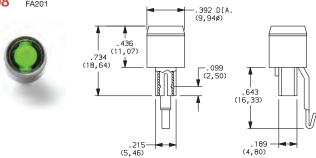




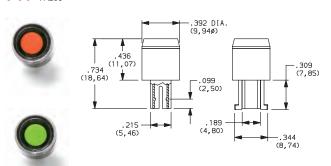
F07 FA120







#### F11 FA200



#### **SHELL COLOR**

BLACK

#### **OUT POSITION COLOR**

BLACK

#### **IN POSITION COLOR**

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



CHASSIS SPACING

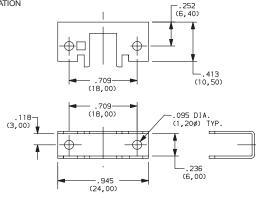
#### **NUMBER OF STATIONS**

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

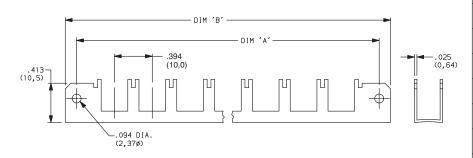
NOTE: Single station chassis available with mounting configurations, consult factory.

# **SPACING**

00 SINGLE STATION

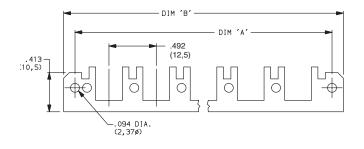


**10** 10mm



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



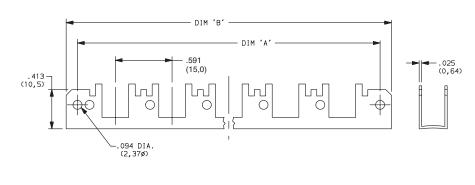


# CHASSIS SPACING

# **SPACING**

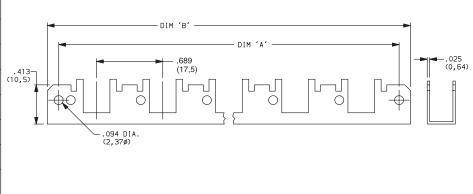
# **15** 15mm

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



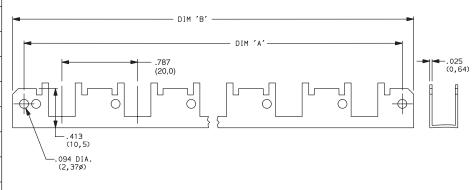
#### **17.5** 17.5mm

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.477 (37,52)	1.713 (43,51)	0.005
3	2.166 (55,02)	2.402 (61,01)	0.010
4	2.855 (75,52)	3.091 (78.51)	0.010
5	3.544 (90,02)	3.780 (96,01)	0.010
6	4.233 (107,52)	4.469 (113,51)	0.015
7	4.922 (125,02)	5.158 (131,01)	0.015
8	5.611 (142,52)	5.847 (148.51)	0.015
9	6.300 (160,02)	6.536 (166,01)	0.015
10	6.989 (177,52)	7.225 (183,52)	0.015



# **20** 20mm

No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.575 (40,01)	1.811 (46,00)	0.005
3	2.363 (60,02)	2.599 (66,01)	0.010
4	3.150 (80,01)	3.386 (86,00)	0.010
5	3.938 (100,03)	4.174 (106,02)	0.010
6	4.725 (120,02)	4.961 (126,01)	0.015
7	5.512 (140,00)	5.748 (146,00)	0.015
8	6.300 (160,02)	6.536 (166,01)	0.015
9	7.087 (180,01)	7.323 (186,00)	0.015
10	7.875 (200,03)	8.111 (206,02)	0.015







# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for c&k manufacturer:

Other Similar products are found below:

773302263 473202000 479603000 121280 4151 604039 SERU AU BRAUN 110036 7101J50V5QE2 7101K2CWZBE 7101MD9ABE2 7101SDV7QE 7101SDZBE2 7103T1CWV3GE 7105K2CWZQE 7105TCWZBES 7108J2ZQE1 7201TCWCBE 7203MCWCQE 7203T1ZQE 7207SYCBE 7208L41YZQE 7211SPY3AV2SE2 7215J1AV2BE2 7215JBV6BE 7215L3YZQE ET05LD1AGE ET05MD1AVBE 7401J3ZQE3 7405MHZBE 7411J3ZQE1 752708000 FA0115RN02Q 8161LHZ3QE22 8161LHZQE2 MMGGF5L0T MP01R133CBE A10403RNZQE 1.20123.0050000 A11205RNZQ A20303RNCG A20605RNZQ 12TL402 ADPFF3J04AW 1.30070.0011002 DM22J11S205PQ DT450T E101J3V31QE2 E101JAAV2QE E201J11CQE32