		F Series Pushbutton Switches
<ul> <li>Up to 10 poles per module</li> <li>Various contact terminals</li> <li>Digital</li> </ul>	<b>Applications</b> o selection al equipment interface cal equipment interface	
Specifications		
SWITCHING POWER: F module max. AC/DC: Silver: 50 VA/1 Gold: 1 VA/300 mW.	, ,	IG FORCE: 2U: 6.5N (650 grams); 4U: 6.5N 7.5N (750 grams); 8U: 9.0N (900 grams); 10U:
SWITCHING VOLTAGE: F module max. AC/DC: Silver: 125/30 Gold: 50/30 V.	- ,	SF OPERATING FORCE:
SWITCHING CURRENT: F module max. AC/DC: Silver: 0.5A/0 Gold: 0.04A/0.01A.	grams±100 grams	50 grams±100 grams); 4U: 5N±1N (500 s); 6U: 6.5N±1N (650 grams±100 grams); 8U:
CARRYING CURRENT: Max at du = 20C: Silver: < 2A, Gold: <	9.0N±1N (900 gra	5 ,
DIELECTRIC STRENGTH (50 Hz, 1 min.): Chassis/contact: ^1 Between contacts: ^1500V.	1500V OPERATING TEMPER Materials	ATURE RANGE: -40°C to 70°C.
OPERATING LIFE "OA/EE" (24V/200mA): >10 <sup>5</sup> operations		nate UL 94V-0 or polyester UL 94V-0.
"GR": >3.5 x 104 operations.	ACTUATOR: Polyester	r UL 94V-0.
CONTACT RESISTANCE: Initial: Typical %10 mΩ, max. 20 ms After operating life: %100 mΩ	Ω MOVABLE CONTACT: over nickel.	S: Bimetal brass, silver plated, gold plate
INSULATION RESISTANCE: ^10 <sup>9</sup> $\Omega$ between open contacts, ^10 <sup>9</sup> $\Omega$ between chassis and contacts.	STATIONARY CONTA gold plated.	CTS & TERMINALS: Brass, silver plated,
CAPACITANCE (at f = 10 kHz): %0.7 pF between 2 contacts.	TERMINAL BOARD: F	Polyester UL 94V-0.
TOTAL TRAVEL/LATCHING TRAVEL: 4.7mm/3.3mm (.185 inc	h/ RETURN SPRING: Mu	isic wire.
.130 inch).	TERMINAL SEAL: RTV	/ adhesive sealant.
All models and options are RoHS compliant and compatible.	CHASSIS: Steel	

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

CHASSIS: Steel.

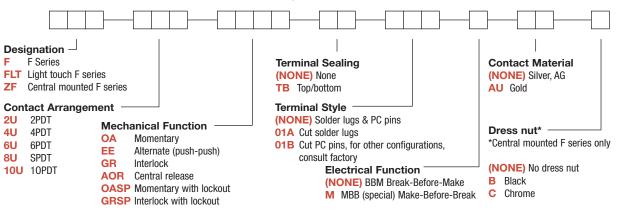
LOCKOUT PIN: Steel.

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

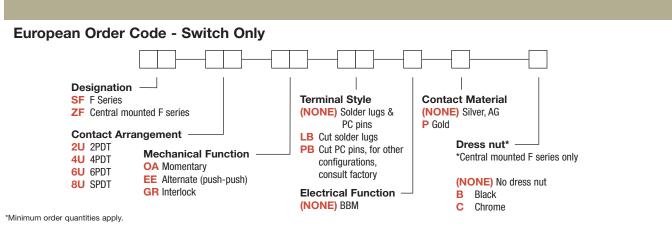




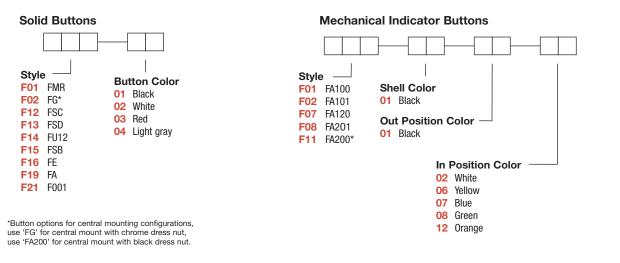
Pushbutton

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Pushbutton >







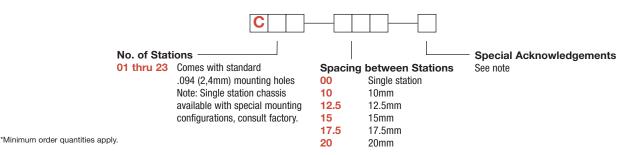
### **BUTTON REMOVAL**

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

2U

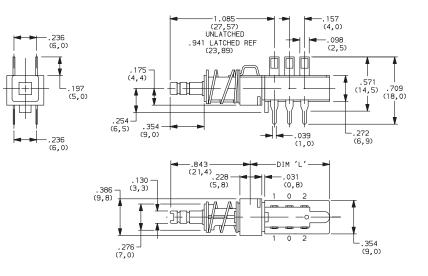
4U

6U

8U

10U

| |



A Pushbutton

1

### ZF2UEEBF11010108

LENGTH DIM 'L'

0.827 (21,00)

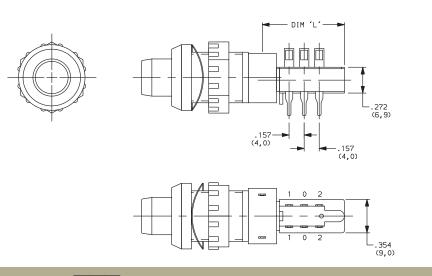
1.300 (33,00)

1.770 (45,00)

2.240 (57,00)

2.720 (69,00)

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

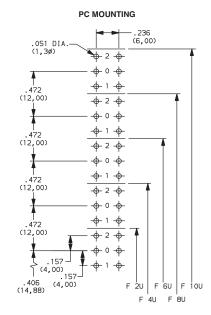


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Pushbutton >

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OPTION COE	E NO. OF POLES	SCHEMATIC
2U	2PDT	
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 0 5X 1 0 2 1 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

# Image: Terminal Sealing (NONE) No Seal TB TB TDP & BOTTOM TDP & BOTTOM



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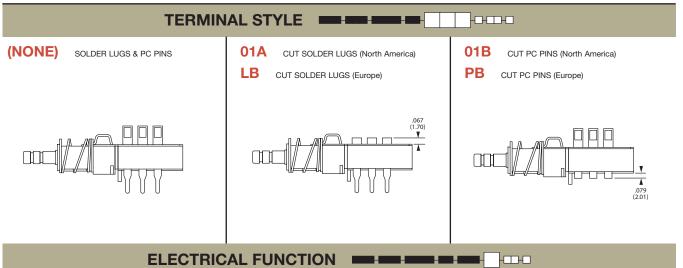
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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A Pushbutton

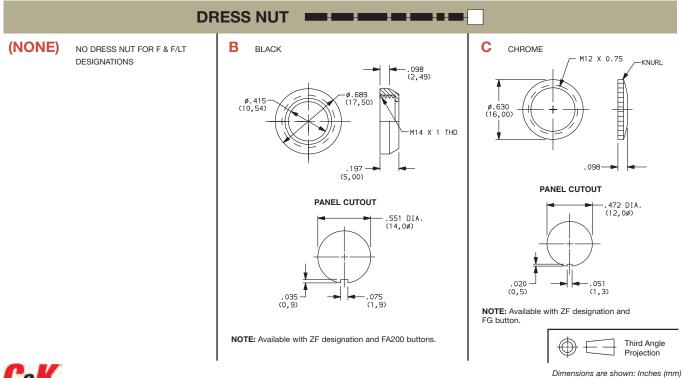


OPTION CODE	FUNCTION
(NONE)	BBM Non-shorting
М	MBB Shorting (North America only)

### 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.

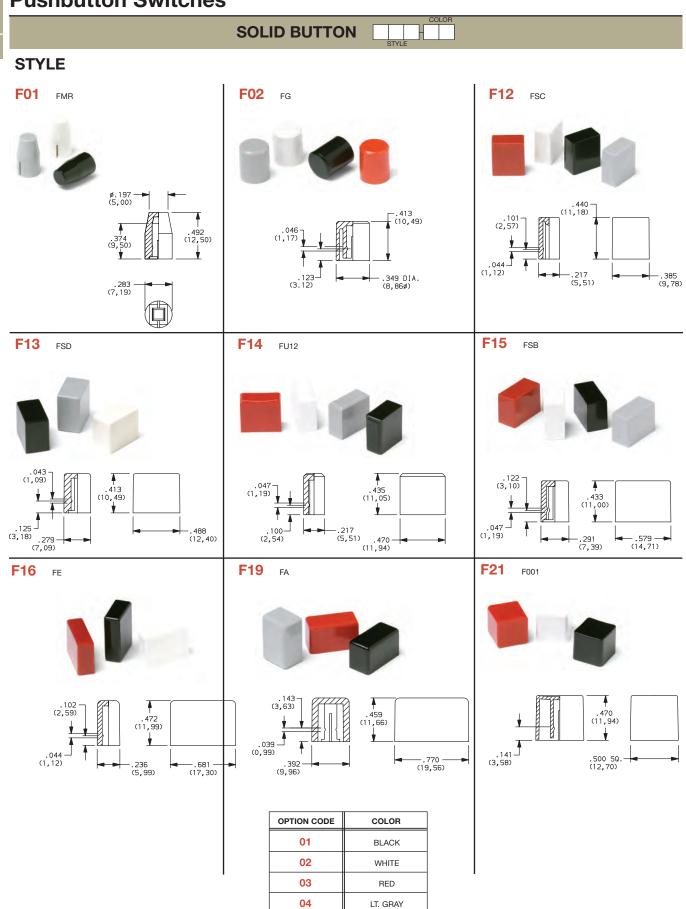


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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Pushbutton >

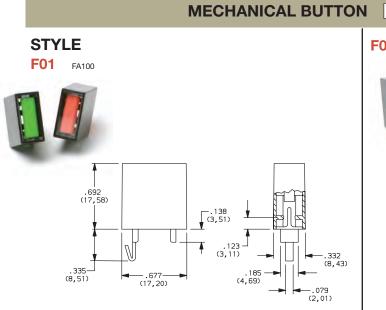


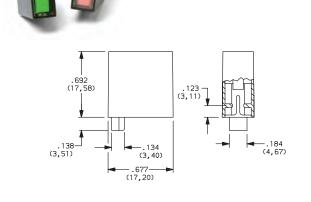


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

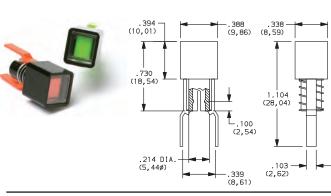


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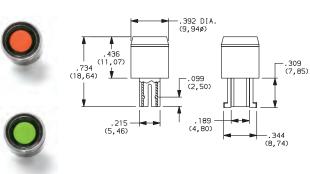
F07 FA120



F08 FA201 .392 DIA. (9,94ø) .734 (18,64) (2,50) .643 (16,33) 4

.215-(5,46)

F11 FA200



# SHELL COLOR

01 BLACK

F02

FA101

# **OUT POSITION COLOR**

01 BLACK

# **IN POSITION COLOR**

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



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

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.189 (4,80)

# CHASSIS

## NUMBER OF STATIONS

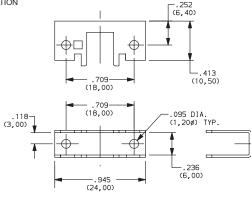
C00 Thru C10 Comes with standard 0.094 (2,44mm) mounting holes

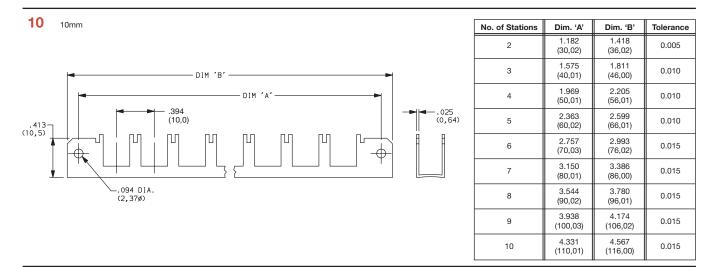
NOTE: Single station chassis available with mounting configurations, consult factory.

# SPACING

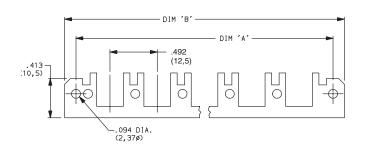
Pushbutton >

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
.025 (0,64)	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



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

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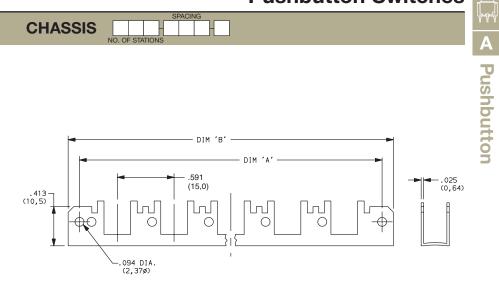
Projection

### **CHASSIS** H

### **SPACING**

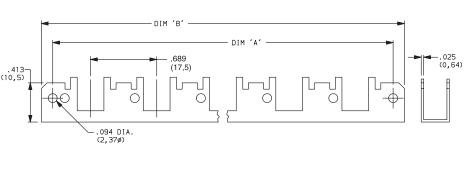
### 15 15mm

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



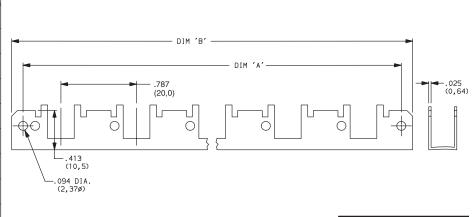
17.5 17.5mm

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	(1
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





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

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Third Angle

Projection

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