Littelfuse Cek



Agency Approvals

Agency	Agency File Number
c FN us	E42363

Notes:

Only for contact arrangement 2U, 4U or 6U. Evaluated for 125Vac/0.4A. See UL Recognition for more details.

Specifications

	opcontations
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 Ω , max. 20 m Ω After operating life: \leq 100 m Ω
Insulation Resistance	≥10 ⁹ Ω between open contacts, ≥10 ⁹ Ω between chassis and contacts.
Capacitance	(at f = 10 kHz): \leq 0.7 pF between 2 contacts.
Total Travel/ Latching Travel	4.7mm/3.3mm (0.185 inch/0.130 inch). All models and options are RoHS compliant and compatible.
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: $3.5N\pm0.5N$ (350 grams ±100 grams); 4U: $5N\pm1N$ (500 grams ±100 grams); 6U: $6.5N\pm1N$ (650 grams ±100 grams); 8U: $9.0N\pm1N$ (900 grams ±100 grams).
Operating Temperature Range	-40°C to 70°C

Description

Innovative digital equipment and medical equipment interfaces utilize F series pushbutton switches because the variety of possible mounting and switch ganging configurations that can fit almost any design. F series switches are RoHS compliant, have various contact terminals and are engineered with up to 10 poles per module.

Features & Benefits

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

Applications

- Audio selection
- Digital equipment interface
- Medical equipment interface

Materials

materials		
Housing	Polycarbonate UL 94 V-0 or polyester UL 94 V-0.	
Actuator	Polyester UL 94 V-0.	
Movable Contacts	Bimetal brass, silver plated, gold plate over nickel.	
Stationary Contacts & Terminals	Brass, silver plated, gold plated.	
Terminal Board	Polyester UL 94 V-0.	
Return Spring	Music wire	
Terminal Seal	RTV Adhesive sealant.	
Chassis		
Lockout Pin	Steel	
Blockers		

Notes:

All models and options are RoHS compliant and compatible. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



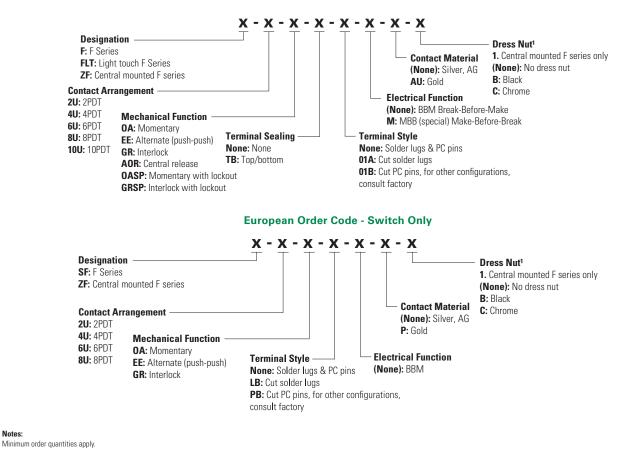
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Ordering Number

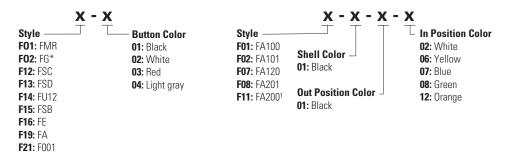
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.

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



Order Code - Buttons



Notes:

Notes:

Button options for central mounting configurations, 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.



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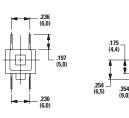
Order Code - Chassis

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

Cx - x - x			
No. of Stations O1 thru 23: Comes with standard 0.094 (2,4mm) mounting holes. Single station chassis available with special mounting configurations, consult factory.	Special Acknowledgements: See note Spacing between Stations 00: Single station 10: 10mm 12.5: 12.5mm 15: 15mm 17.5: 17.5mm		
	20: 20mm		

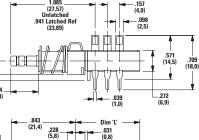
Notes: Minimum order quantities apply.

Switches with Standard Buttons F2UEE



.130 (3,3)

.276 (7,0)



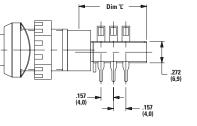
0

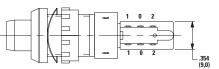
Contact Arrangement	Length DIM 'L'
2U	0.827 (21.00)
4U	1.300 (33.00)
6U	1.770 (45.00)
8U	2.240 (57.00)
10U	2.720 (69.00)

ZF2UEEBF11010108

.354 (9.0)







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

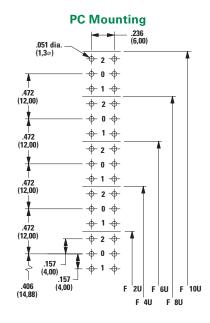
Designation, Europe

SF: F Series **ZF:** Central mounted F series

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Contact Arrangement			
Option Code	No. of Poles	Schematic	
2U	2PDT		
4U	4PDT	$2x_1 \bullet 0 \bullet 0$	
6U	6PDT	3x 1 • • 2 1 • • 2	
8U	8PDT	4x 1 • • 2 1 • • 2	
10U	10PDT	5x 1 0 0 0 0	



Mechanical Function

North America

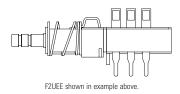
Option Code	Function	
OA	Momentary	
EE	Alternate (push-push)	
GR	Interlock	
AOR	Central release	
OASP	Momentary with lockout	
GRSP	Interlock with lockout	

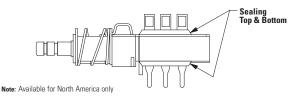
Option Code	Function	
OA	Momentary	
EE	Alternate (push-push)	
GR	Interlock	

Europe

Terminal Sealing

(None) No Seal

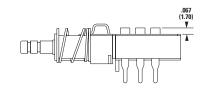




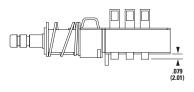
TB Top & Bottom

Terminal Style

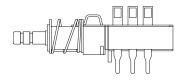
01A Cut Solder Lugs (North America) LB Cut Solder Lugs (Europe)



01B Cut PC Pins (North America) PB Cut PC Pins (Europe)



(None) Solder Lugs & PC Pins







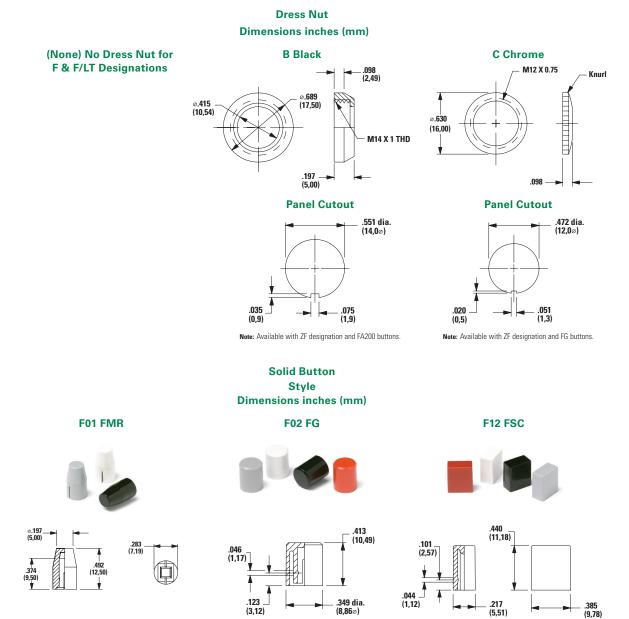
Electrical Function

Option Code	Function
(None)	BBM Non-shorting
Μ	MBB Shorting (North America only)

Contact Material

North America Option Code	Europe Option Code	RoHS Compliant ¹	RoHS Compatible ¹	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	1VA/300mW; 50/30 V; 0.04 A/0.01 A

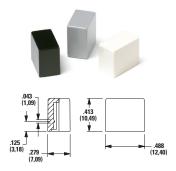
Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.





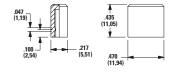


F13 FSD



Dimensions inches (mm)

F14 FU12

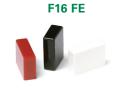


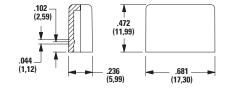
F19 FA

.122 (3,10 .433 (11,00) .047 _____ (1,19) ŧ .291 (7,39)

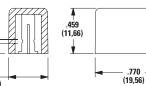
F15 FSB

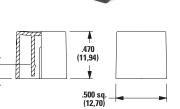
F21 F001





.143 – (3,63) .039 ____ (0,99) Ā .392 – (9,96)





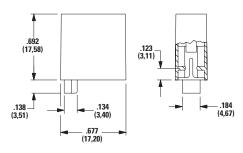
Option Code	Color
01	Black
02	White
03	Red
04	LT. Gray

Mechanical Button Style and Color **Dimensions inches (mm)**

F02 FA101

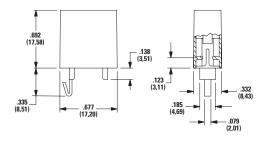
.141 _ (3,58)







F01 FA100



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Dimensions inches (mm)

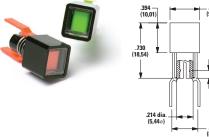
F07 FA120

F11 FA200

.392 dia. (9,94⊘)

> .099 (2,50)

> > .189 (4,80)



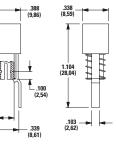
.436 (11,07)

¥

.215 (5,46)

.734 (18,64)

1



F08 FA201

Shell Color 01 Black
Out Position Color 01 Black

In Position Color

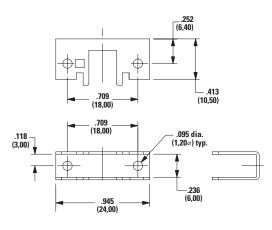
Option Code	Color
02	White
06	Yellow
07	Blue
08	Green
12	Orange

Chassis

.309 (7,85)

.344 (8,74)

> Spacing 00 Single Station Dimensions inches (mm)



Number of Stations C00 Thru C10

 ${\rm Notes:}$ Comes with standard 0.094 (2.44mm) mounting, single station chassis available with mounting configurations, consult factory.

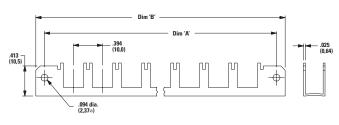
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Dimensions inches (mm)

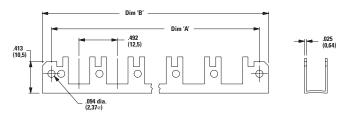
10 10mm

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

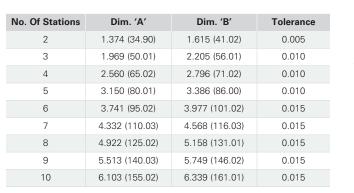


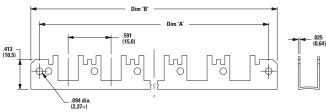
No. of Stations	Dim. 'A'	Dim. 'B'	Tolerance
2	1.200 (30.48)	1.436 (36.47)	0.005
3	1.692 (42.98)	1.928 (48.97)	0.010
4	2.184 (55.47)	2.420 (61.47)	0.010
5	2.676 (67.97)	2.912 (73.96)	0.010
6	3.169 (80.49)	3.405 (86.49)	0.015
7	3.661 (92.99)	3.897 (98.98)	0.015
8	4.153 (105.49)	4.389 (111.48)	0.015
9	4.645 (117.98)	4.881 (123.98)	0.015
10	5.137 (130.48)	5.373 (136.47)	0.015

12.5 12.5mm



15 15mm



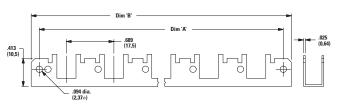




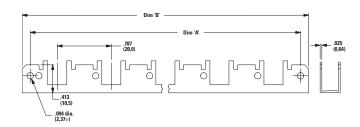
17.5 17.5mm

20 20mm

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



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 7.875 (200.03) 10 8.111 (206.02) 0.015



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