Features/Benefits

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

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 $\Delta u = 20^{\circ}$ 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 ${\leq}10~m\Omega,~max.~20~m\Omega$ After operating life: ${\leq}100~m\Omega$
- INSULATION RESISTANCE: ${\geq}10^9~\Omega$ between open contacts, ${\geq}10^9~\Omega$ between chassis and contacts.
- CAPACITANCE (at f = 10 kHz): \leq 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

Typical Applications

Digital equipment interface

Medical equipment interface

Audio selection

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.

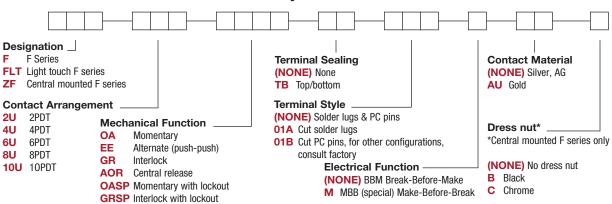
- CHASSIS: Steel.
- LOCKOUT PIN: Steel.

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



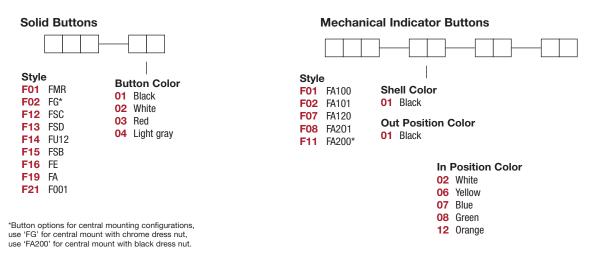




European Order Code - Switch Only Designation SF F Series **Terminal Style Contact Material ZF** Central mounted F series (NONE) Solder lugs & (NONE) Silver, AG P Gold PC pins **Contact Arrangement** LB Cut solder lugs **Dress nut*** 2U 2PDT PB Cut PC pins, for other **Mechanical Function** *Central mounted F series only **4U** 4PDT configurations, **OA** Momentary 6U 6PDT consult factory EE Alternate (push-push) (NONE) No dress nut 8U 8PDT **GR** Interlock **Electrical Function** В Black (NONE) BBM С Chrome

*Minimum order quantities apply.

Order Code - Buttons



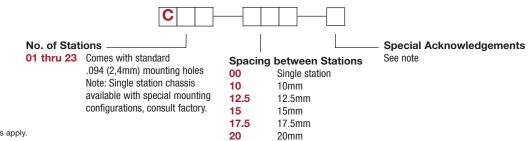
BUTTON REMOVAL

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.



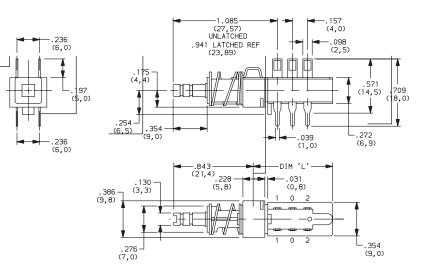


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

SWITCHES WITH STANDARD OPTIONS

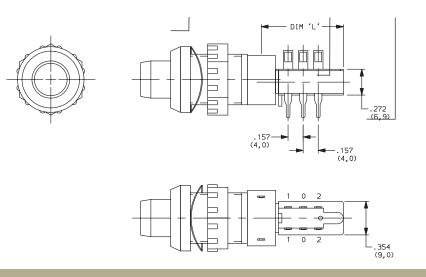
F2UEE

| | CONTACT ARRANGEMENT | LENGTH DIM 'L' |
|---|------------------------|-------------------|
| | 2U | 0.827 (21,00) |
| T | 4U | 1.300 (33,00) |
| Τ | 6U | 1.770 (45,00) |
| T | 8U | 2.240 (57,00) |
| Ι | 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

C&K

FLT Light touch F series

ZF Central mounted F series

Designation, Europe

SF F Series

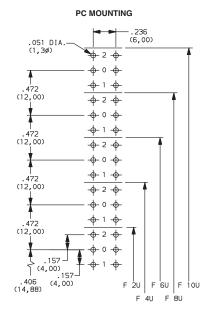
ZF Central mounted F series





www.ckswitches.com

| OPTION CODE | NO. OF POLES | SCHEMATIC |
|-------------|--------------|------------------------------|
| | | • 0 • 0 |
| 2U | 2PDT | 1 • • 2 1 • • 2 |
| 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 • 2 |



North America

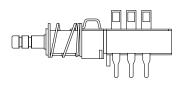
| OPTION CODE | FUNCTION | |
|-------------|------------------------|--|
| OA | Momentary | |
| EE | Alternate (push-push) | |
| GR | Interlock | |
| AOR | Central release | |
| OASP | Momentary with lockout | |
| GRSP | Interlock with lockout | |

Europe

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

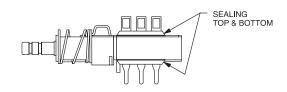
TERMINAL SEALING

(NONE) NO SEAL



F2UEE shown in example above.

ТВ ТОР & ВОТТОМ



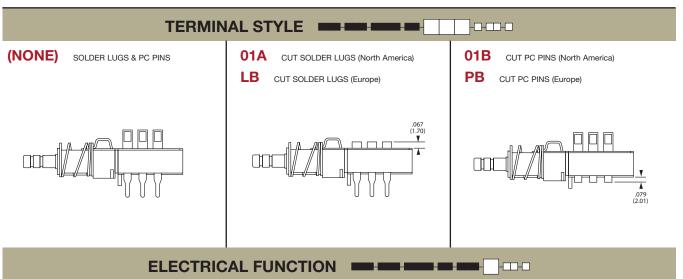
NOTE: Available for North America only



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

 \bigcirc

Third Angle Projection

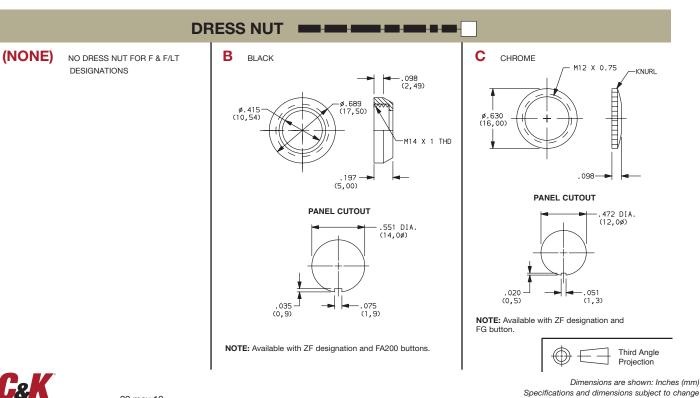


| OPTION CODE | FUNCTION |
|-------------|-----------------------------------|
| (NONE) | BBM Non-shorting |
| м | MBB Shorting (North America only) |

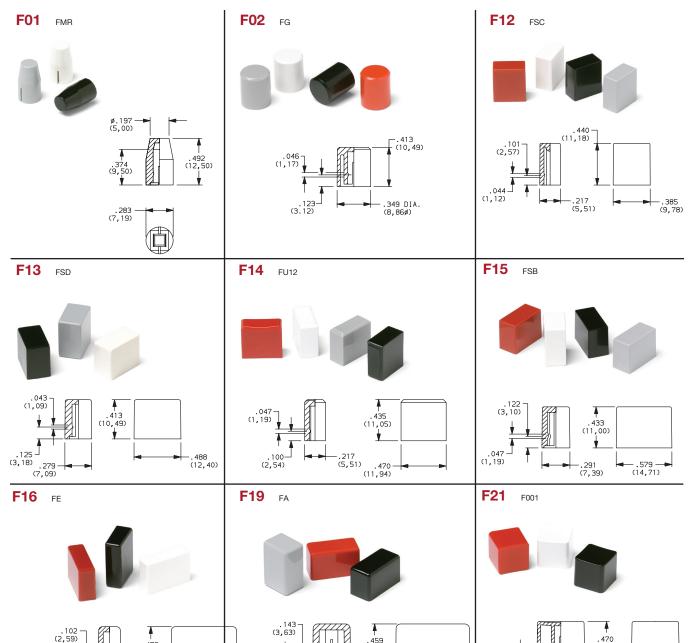
CONTACT MATERIAL

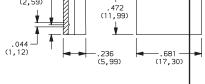
| NORTH AMERICA OPTION CODE | EUROPE OPTION CODE | RoHS COMPLIANT * | RoHS COMPATIBLE * | MATERIAL | RATING |
|------------------------------|-----------------------|---------------------|----------------------|------------|------------------------------------|
| (NONE) | (NONE) | YES | YES | SILVER, 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 |

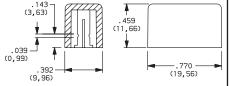
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



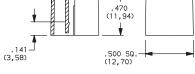
F Series **Pushbutton Switches** COLOR **SOLID BUTTON STYLE**







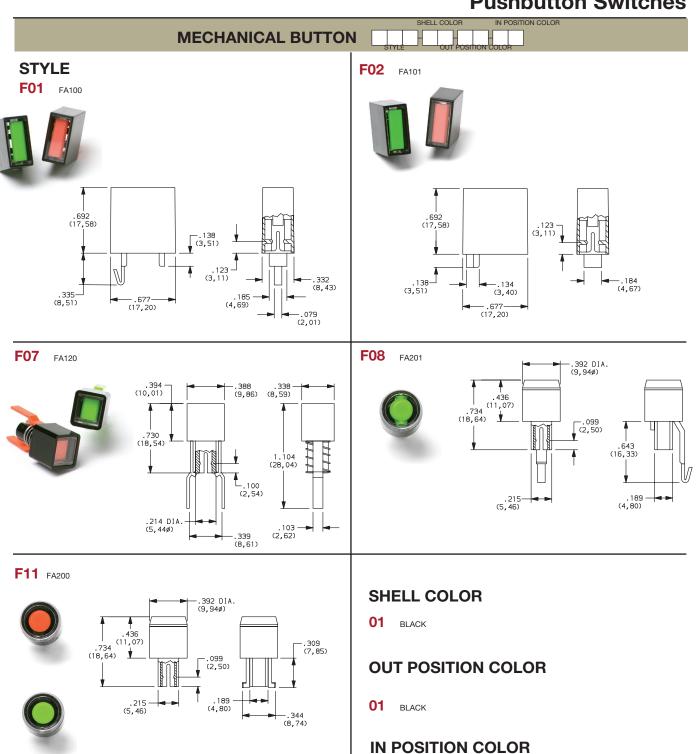
| OPTION CODE | COLOR | | |
|-------------|----------|--|--|
| 01 | BLACK | | |
| 02 | WHITE | | |
| 03 | RED | | |
| 04 | LT. GRAY | | |



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

C&K



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



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ckswitches.com

CHASSIS

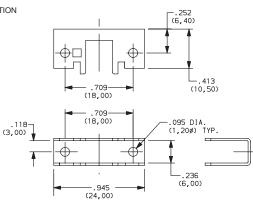
NUMBER OF STATIONS

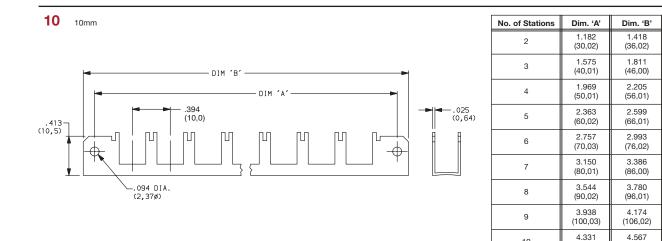
C00 Thru C10 Comes with standard 0.094 (2,44mm) mounting holes

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

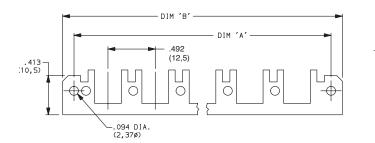
SPACING

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 |
| 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 |

(110,01)

(116,00)

10

.025 (0,64)

Third Angle

Specifications and dimensions subject to change

 \bigcirc Projection Dimensions are shown: Inches (mm)

Tolerance

0.005

0.010

0.010

0.010

0.015

0.015

0.015

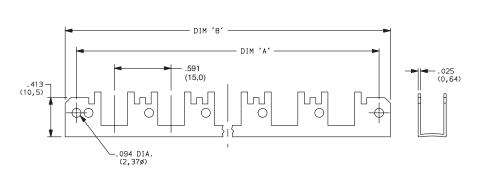
0.015

0.015

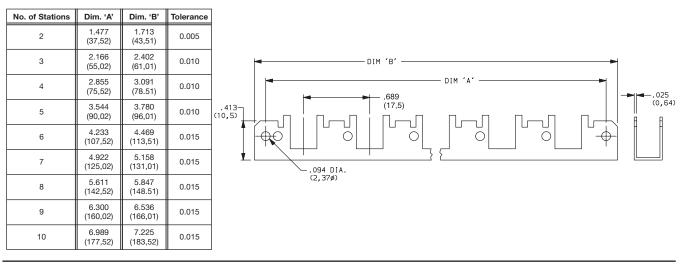
CHASSIS

SPACING

| 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





| 1.575 | 4.044 | | |
|-------------------|--|---|---|
| (40,01) | 1.811 (46,00) | 0.005 | |
| 2.363 (60,02) | 2.599 (66,01) | 0.010 | DIM 'B' |
| 3.150 (80,01) | 3.386 (86,00) | 0.010 | DIM 'A' |
| 3.938 (100,03) | 4.174 (106,02) | 0.010 | |
| 4.725 (120,02) | 4.961 (126,01) | 0.015 | |
| 5.512 (140,00) | 5.748 (146,00) | 0.015 | |
| 6.300 (160,02) | 6.536 (166,01) | 0.015 | |
| 7.087 (180,01) | 7.323 (186,00) | 0.015 | |
| 7.875 (200,03) | 8.111 (206,02) | 0.015 | |
| | 2.363 (60,02) 3.150 (80,01) 3.938 (100,03) 4.725 (120,02) 5.512 (140,00) 6.300 (160,02) 7.087 (180,01) 7.875 | 2.363 (60,02) 2.599 (66,01) 3.150 (80,01) 3.386 (86,00) 3.938 (100,03) 4.174 (106,02) 4.725 (126,01) 4.961 (126,01) 5.512 (140,00) 5.748 (146,00) 6.300 (166,01) 6.536 (166,01) 7.087 (180,01) 7.323 (186,00) 7.875 8.111 | 2.363 (60,02) 2.599 (66,01) 0.010 3.150 (80,01) 3.386 (86,00) 0.010 3.938 (100,03) 4.174 (106,02) 0.010 4.725 (120,02) 4.961 (126,01) 0.015 5.512 (140,00) 5.748 (146,00) 0.015 6.300 (160,02) 6.536 (166,01) 0.015 7.087 (180,01) 7.323 (186,00) 0.015 7.875 8.111 0.015 |



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

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 7T0062
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 MJ612
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