

Type SMH Test Switches



- **High barriers**
- **Recognized by UL and CUL**
- **Self-extinguishing materials**
- **Nonferrous material**
- **Corrosion-resistant nickel finish**
- **Safety-grip handle**

DESCRIPTION

STATES Type SMH Test Switches combine over 60 years of experience in the design and manufacture of test switches with the latest improvements in material composition and construction techniques.

A complete line of switches is available for meter, relay, instrument, transducer and control system calibration, disconnection, troubleshooting, checkout and testing. All the features you need for any application — potential elements, current elements, make-before-break short-circuiting elements for current transformer circuits, test jacks — are included.

Each switch blade can be operated independently or, where requirements dictate, adjacent handles can be ganged for simultaneous operation.

Features are incorporated for safety, durability, ruggedness and reliability. Where applicable, dimensions are in accordance with EEI-AEIC Meter and Service Committee Standards.

All configurations are available in front-connected, back-connected or flush-mounted styles.

RECOGNIZED BY UL AND CUL

Underwriters Laboratories recognizes STATES Type SMH Test Switches under its component program, File No. E75355, with a rating of 600 volts, 30 amperes.

FEATURES AND BENEFITS

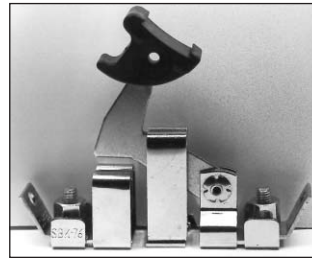
- **Self-extinguishing materials:** All non-metallic components are made of self-extinguishing, flame-retardant materials with Underwriters Laboratories' best rating for self-extinguishing materials (V-O).
- **Nonferrous material:** All current-carrying metallic components, including hardware, are made of highest quality nonferrous materials such as copper, bronze, brass or phosphor bronze. This ensures excellent conductivity and minimizes galvanic action between dissimilar metals.
- **Nickel plating:** All current-carrying metallic components, including hardware, have a corrosion-resistant nickel finish that ensures good electrical contact and smooth operation of moving parts even after years of inactivity.
- **One-piece jaw and hinge:** One-piece construction of hinge and jaw eliminates unnecessary, multiple connection points.



Type SMH Test Switches are available in 1-, 2-, 3-, 4-, 7- and 10-pole base sizes. The bases are made of rugged, 3/8 inch, nontracking material with excellent insulating properties and are impervious to moisture. Mounting dimensions of the 4-, 7-, and 10-pole bases conform to applicable EEI-AEIC Meter and Service Committee Standards.

STATES

- **Special blade shape:** All blades are shaped so that the edge of the blade enters at a right angle to the jaw; thus, the blade enters and exits the full width of the jaw simultaneously.
- **Test lug:** The large corrugated test lug provided for each terminal stud is a secure surface for attaching test clips.
- **Switch jaws:** All STATES Test Switches have uniform contact pressure over the full width of the blade. The “ping” heard when opening the blade is due to the special, spring-grade phosphor bronze used in the jaw. This design ensures an excellent low-resistance contact that will not overheat.
- **Short-circuit jaw:** A rugged, make-before-break element is used to short the secondary of a current transformer.
- **Fixed terminal studs:** The screw terminals on which wiring connections are made are part of a rigid, immovable assembly and cannot be turned or backed out.
- **Test jack:** The test jack eliminates the possibility of opening current transformer secondaries and permits safe, easy measurements to be made in current circuits without disturbing permanent wiring. A dual-circuit test plug, such as the STATES Cat. No. 15000, inserted into the test jack puts the measuring instrument in series with the current circuit. The test jack does not carry current except when making a test because it is shunted by a standard switch blade that is opened only when the test jack is used.

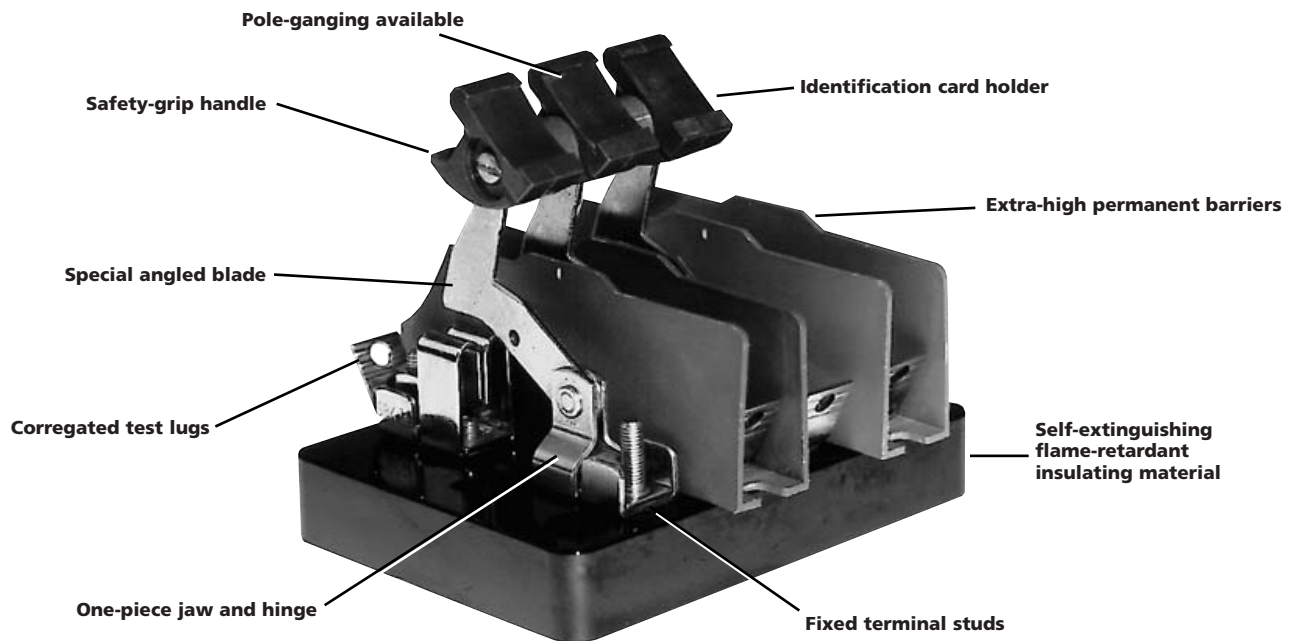


Safety-grip handle: A molded handle covers the terminal and includes a lower lip that projects over the metal parts of the switch, thus protecting the operator from contact with live components.



High barriers: Maximum circuit isolation is obtained by extra-high barriers that provide uncompromised protection. Barriers are permanently mounted and cannot fall out or be knocked out, as in some “snap-in” designs.

- **Color-coded handles:** Unless otherwise specified, potential elements have red handles and current elements have black; however, the following other colors are available at additional cost: blue, orange, white, yellow, brown, green, black and white.
- **Identification card holder:** Each safety grip handle is slotted for insertion of an identification card for marking or coding. Cards are available under Cat. No. SB 678.

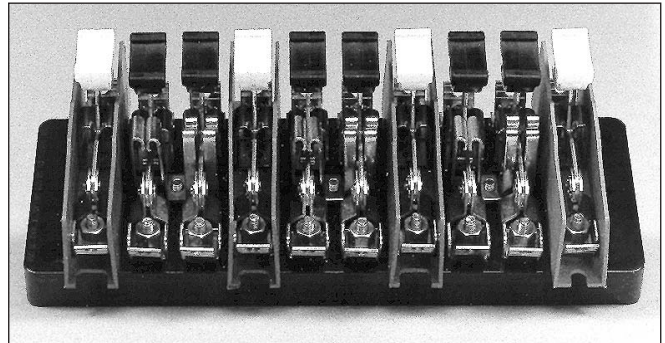


STATES

FRONT-CONNECTED SWITCHES

The front-connected test switch usually is used where wiring entering and leaving the test switch is located on the same side of the panel that the test switch is mounted.

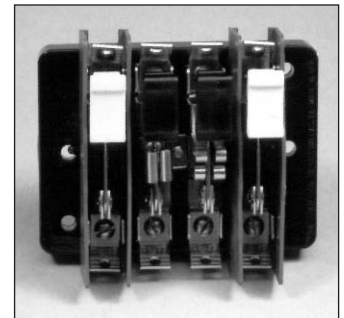
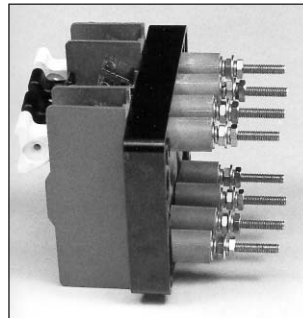
To order front-connected test switches, refer to **Ordering Information**.



BACK-CONNECTED SWITCHES

All switches can be provided in a back-connected version so that the switch is mounted on one side of a panel and the wiring connections are made on the opposite side. Back-connected switches have factory-installed insulated studs that project from the rear of the switch.

To order back-connected switches, refer to **Ordering Information**.

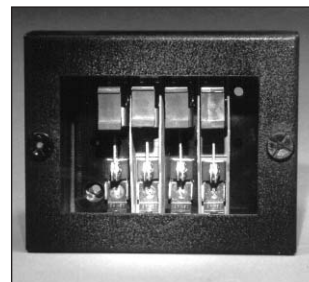
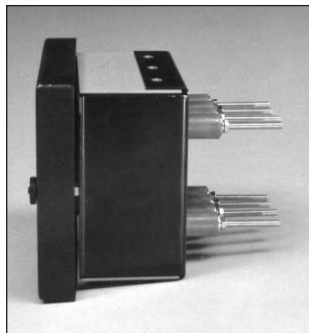


FLUSH-MOUNTED SWITCHES

Flush-mounted switches consist of a standard back-connected test switch mounted in an insulated metal cabinet with cover. Flush-mounted switches match flush-mounted or semi-flush-mounted relays, instruments, meters, etc., furnished on steel panelboards.

The switch cabinet has a black finish to match the panelboard and/or devices mounted in the panelboard. The cabinet cover, which has a protective glass insert, can be sealed. Self-extinguishing, flame-retardant insulating material lines the cabinet. The cabinet is mounted by inserting it into a panel cutout and fastening it with screws that are hidden when the cover is attached.

To order flush-mounted switches, refer to **Ordering Information**.



STATES

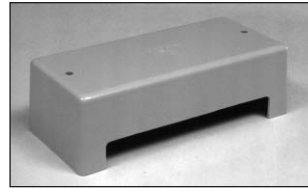
COVERS

Rugged, virtually unbreakable covers for STATES Test Switches are available in clear or opaque styles. The covers are manufactured from tough, self-extinguishing, flame-retardant polycarbonate and are available for front- or back-connected versions.

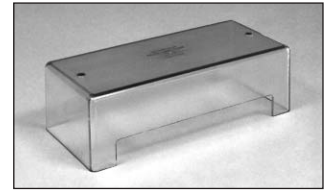
The covers are constructed so that all switch blades must be closed when the cover is properly sealed. Switches provided with covers include two insulated, cadmium-plated steel cover studs that have holes for wire seals.

Covers for front-connected switches are open or slotted at the bottom of each side to permit wiring to enter and exit between the cover and the panel.

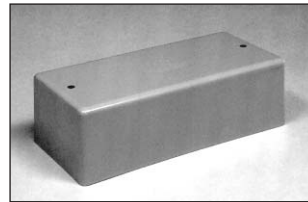
Covers for back-connected switches fit flush with the panel because all wiring exits at the rear of the test switch. To add a cover, refer to **Ordering Information**.



Front-connected opaque (C1) cover



Front-connected clear (C3) cover



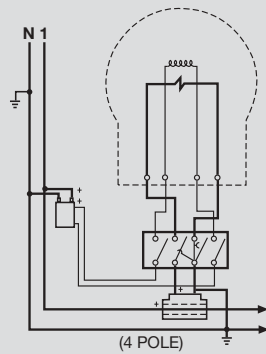
Back-connected opaque (C2) cover



Back-connected clear (C4) cover

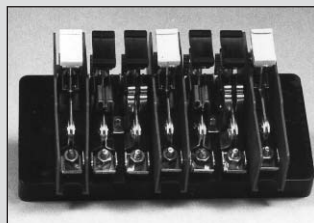
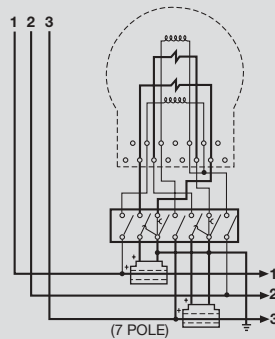
TYPICAL INSTALLATIONS

1 ϕ 2-Wire with CT and PT



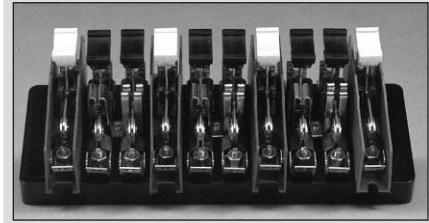
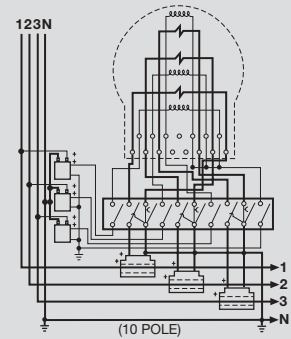
**4-Pole Test Switch
Cat. No. 404-N**

3 ϕ 3-Wire 2-Element



**7-Pole Test Switch
Cat. No. 407-K**

3 ϕ 4-Wire Y 3-Element



**10-Pole Test Switch
Cat. No. 410--E**

ORDERING INFORMATION

The catalog numbers under the arrangements on the following pages are for front-connected switches without covers. These same numbers are also used as the basis for ordering back-connected and flush-mounted switches. The catalog numbers are three digits followed by a letter or letter and number combination. **Example:** 402-A

42/42/



402-A

The slashes (/) in the arrangements represent barriers that are installed standard between any adjoining elements of opposite polarity.

To order front-connected switches: Specify the catalog numbers shown under the arrangements on the following pages. **Example:** 410-A1

Covers are available for 4-, 7- and 10-pole base sizes. For covers, add the appropriate prefix:

Cover	Prefix
Front-connected, slotted, opaque	C1
Front-connected, slotted, clear	C3

Example: C3-410-A1

To order back-connected switches Specify the desired arrangement and add the suffix -B.

Example: 410-A1-B

For covers, add the appropriate prefix:

Cover	Prefix
Back-connected, solid, opaque	C2
Back-connected, solid, clear	C4

Example: C2-410-A1-B

To order flush-mounted switches: Add the prefix G- to the number of the desired arrangement. **Example:** G-410-A1
Flush-mounted switches are provided with a cover.

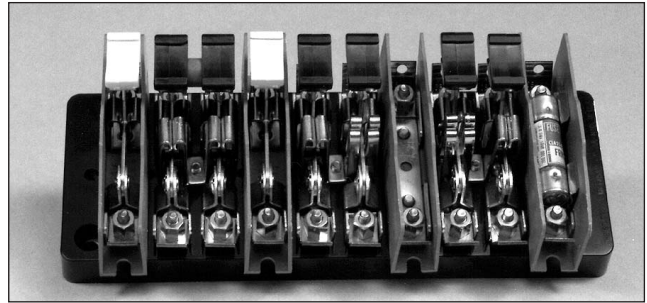
SPECIAL ORDERS

Special Arrangements: In addition to the typical arrangements shown on the following pages, special arrangements are available. These can be made of any combination of potential or current elements, with a maximum of 10 poles. For more information, refer to the following example and illustrations on Page 58.

Example: To order a unique switch in a back-connected version and with a clear back-connected cover, specify:

Switch Type: STATES Type SMH
No. of poles: 10-pole test switch
Arrangement: /42/44/42/46/61/45/73/
Style: Back-connected
Cover: Clear, back-connected

Handle Colors: The standard colors for handles are red for potential handles and black for current handles. Handles are also available in other colors.



The unusual combination of assemblies in this unique test switch demonstrates that STATES Type SMH test switches are available in literally thousands of configurations.

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	Red	r
Black and White	kw	White	w
Blue	b	Yellow	y
Green	g	Brown	n
Orange	e		

To order a switch with handles in non-standard colors, you must specify the arrangement with colors indicated. For example, to order a 4-pole switch with special handle colors, specify: **Arrangement:** 71g/42/42b/68w

Ganged handles: You may specify a yoking bar to gang adjacent handles. For example, to order a switch with the adjacent potentials ganged, you must specify:

Gang all potentials

Hinge position: The "U" in an arrangement indicates the hinge is positioned upside down from the typical arrangement.

Bases: An 8- or 9-pole test switch is built on a 10-pole base. A 5-, 6-, or 7-pole test switch usually is built on a 7-pole base but can be provided on a 10-pole base if desired.

OPTIONAL ACCESSORIES



Socket Wrench and Insert

To speed installation of the terminal nuts on Type SMH Test Switches, the socket wrench (Cat. No. 16028) and 3/8 inch insert (Cat. No. 16027) are available.

The screwdriver attachment (Cat. No. 16022) makes this wrench your complete meter installation tool.

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Cat. No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



STATES

FRONT VIEW 1-POLE

42



401-A

Color Option:

42Y
401-D

72



401-B

73



401-C

Other 1-Pole
Standard Arrangements:

/42/
401-G

72-35
401-F

2-POLE

42/42/



402-A

72-72



402-B

73/73/



402-C

62



402-D

2-POLE (CONT.)

44



402-E

45



402-F

46



402-G

Other 2-Pole
Standard Arrangements:

35-44-35
402-N (4-Pole Base)

35-45-35
402-S (4-Pole Base)

35-46-35
402-J (4-Pole Base)

35-62/35
402-Y (4-Pole Base)

42-35-42
402-T (3-Pole Base)

42-35-42
402-U (3-Pole Base)

42-35-42-35
402-M (4-Pole Base)

42-35-42-35
402-P (4-Pole Base)

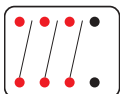
42-42
402-Q

42-42
402-R

/62/
402-W

3-POLE

42/42/42-35

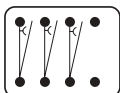


403-A (4-Pole Base)

Color Option:
42Y/42Y/42Y-35

403-M

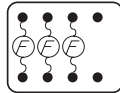
72-72-72-35



403-B

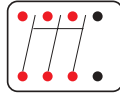
3-POLE (CONT.)

73/73/73-35



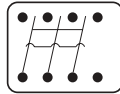
403-C

78-35



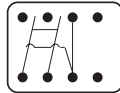
403-D

79-35



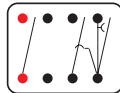
403-E

77-61-35



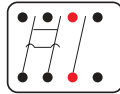
403-F

42-35-46



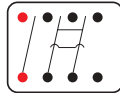
403-G

44/42/35



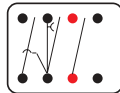
403-H

/42/44-35



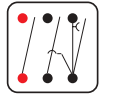
403-J

46/42/35



403-K

/42/46



403-S (3-Pole Base)

Other 3-Pole
Standard Arrangements:

42-42-42
403-N (3-Pole Base)

42Y/42Y/42Y
403-P (3-Pole Base)

42/42/42
403-T (3-Pole Base)

42-42-42
403-V (3-Pole Base)

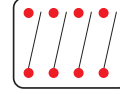
42-46
403-R (3-Pole Base)

78
403-U (3-Pole Base)

79
403-Q (3-Pole Base)

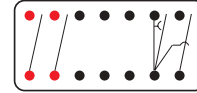
4-POLE

42/42/42/42/



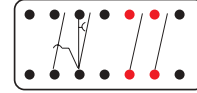
404-A

42/42K/35-35-35-45RWRK



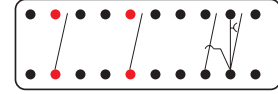
404-AA (7-Pole Base)

35-46RW-35/42R/42W/35



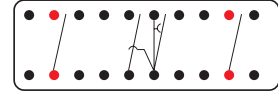
404-AB (7-Pole Base)

35-42-35-35-42-35-35-46-35



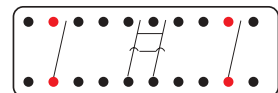
404-AC (10-Pole Base)

35-42-35-35-46-35-35-42-35



404-AD (10-Pole Base)

35/42/35-35-44-35-35/42/35



404-AE (10-Pole Base)

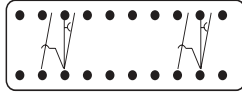
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

FRONT VIEW

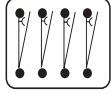
4-POLE (CONT.)

35-46-35-35-35-35-46-35



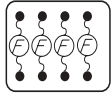
404-AF (10-Pole Base)

72-72-72-72



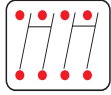
404-B

73/73/73/73/



404-C

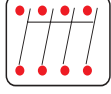
/62/62/



404-D

Color Option: /62RK/62RK/
404-AR

#42/42/42/42/#



404-E

42/42/46



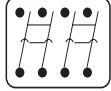
404-F

46/62



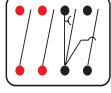
404-G

44-44



404-H

42/42/45



404-J

4-POLE (CONT.)

46/42/42



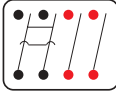
404-K

/42/44/42



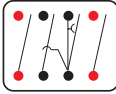
404-L

44/42/42



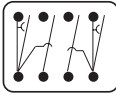
404-M

/42/46/42/



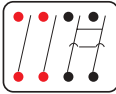
404-N

45-46



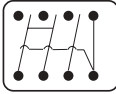
404-P

42/42/44



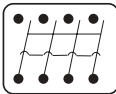
404-Q

81-61



404-R

71-71-71-70



404-S

Other 4-Pole
Standard Arrangements:

35-35/42/46/42/35
404-AP

35-35-69/42/42/70-35
404-AH

42-35-42-35-35-45
404-AK

4-POLE (CONT.)

42-35-42-35-35-46
404-AL (7-Pole Base)

42-35-46-35-42-35
404-AG (7-Pole Base)

42-42-42-42
404-AZ

46-45
404-AY

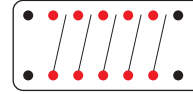
69/42/42/70
404-Y

71G/42/42B/68W
404-X

72-35-72-35-72-35-72
404-AJ (7-Pole Base)

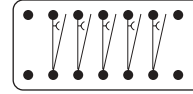
5-POLE

35-42/42/42/42/42-35



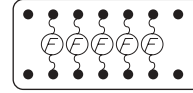
405-A

35-72-72-72-72-72-35



405-B

35-73/73/73/73/73-35



405-C

35/42/46/42/42-35



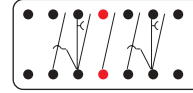
405-D

35/42/42/42/44-35



405-E

35-46/42/46-35



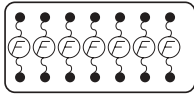
405-F

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

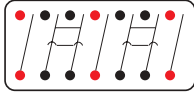
FRONT VIEW 7-POLE (CONT.)

73/73/73/73/73/73/73



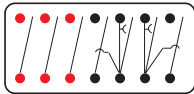
407-C

/42/44/42/44/42/



407-D

/42/42/42/46-45



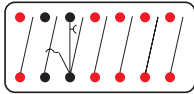
407-E

42/42/46/42/42/42/



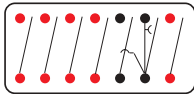
407-F

/42/46/42/42/42/42



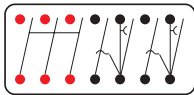
407-G

42/42/42/42/46/42



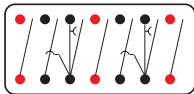
407-H

78/46-46



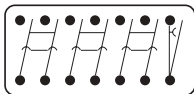
407-J

/42/46/42/46/42/



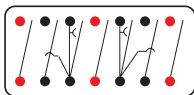
407-K

44-44-44-72



407-L

/42/46/42/45/42/



407-M

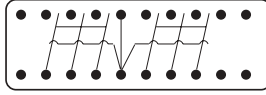
7-POLE (CONT.)

/42/42/42/46-46



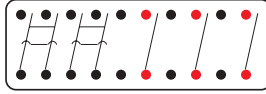
407-N

35-81-61-80-35-35



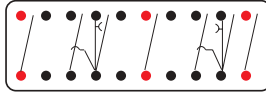
407-Q (10-Pole Base)

44-44-35/42/35/42/35/42/



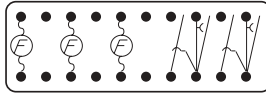
407-AA (10-Pole Base)

/42/35-46-35/42/35-46/42/



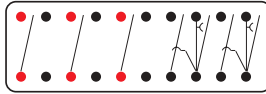
407-P (10-Pole Base)

73-35-73-35-73-35-46-46



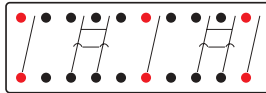
407-AC (10-Pole Base)

/42/35/42/35/42/35-46-46



407-T (10-Pole Base)

42-35-44-35-42-35-44/42/



407-U (10-Pole Base)

Other 7-Pole
Standard Arrangements:

42-35-42-35-42-35-46-45

407-AF (10-Pole Base)

/42/35-44-35/42/35-44/42/

407-AS (10-Pole Base)

42-35-46-35-42-35-45/42/

407-AD (10-Pole Base)

/42K/35-46RKW-35/42W/35-

45EG/42B

407-AT (10-Pole Base)

/42/42W/42K/46EG-46BG

407-AE

7-POLE (CONT.)

42/42G/42W-35-35-35-46EB-46KWK

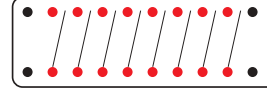
407-AG (10-Pole Base)

79-61/78

407-AB

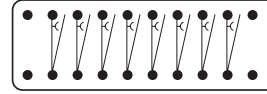
8-POLE

35-42/42/42/42/42/42/42/35



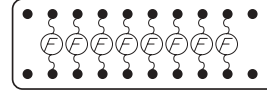
408-A

35-72-72-72-72-72-72-72-35



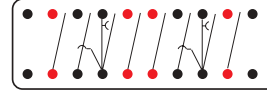
408-B

35-73/73/73/73/73/73/73/35



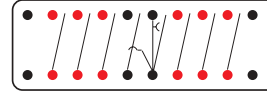
408-C

35/42/46/42/42/46/42/35



408-D

35/42/42/42/46/42/42/35



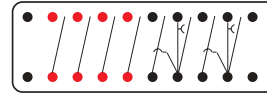
408-E

35-42/42/42/61/44-44-35



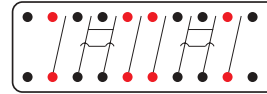
408-F

35-42/42/42/42/46-46-35



408-G

35/42/44/42/42/44/42/35



408-H

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow
kw: Black and White

STATES

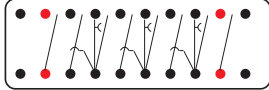
FRONT VIEW - 8-POLE (CONT.)

35-42/42/42/42/44-44-35



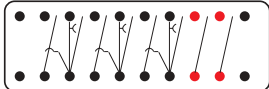
408-J

35/42/46-46-46/42/35



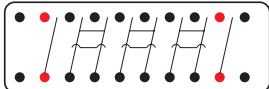
408-K

35-46-46-46/42/42-35



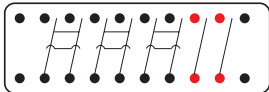
408-L

35/42/44-44-44/42/35



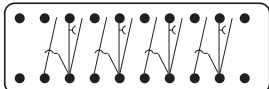
408-M

35-44-44-44/42/42-35



408-N

35-46-46-46-46-35



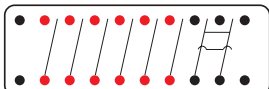
408-P

35/42/42/42/44/42/42/42/35



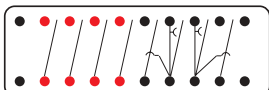
408-Q

35-42/42/42/42/42/42/44-35



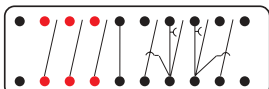
408-R

35-42/42/42/42/46-45-35



408-S

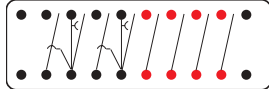
35-42/42/42/61/46-45-35



408-T

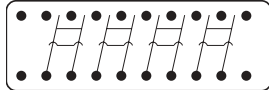
8-POLE (CONT.)

35-46-46/42/42/42/42-35



408-U

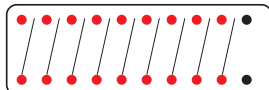
35-44-44-44-44-35



408-W

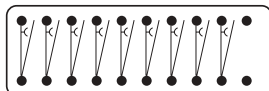
9-POLE

42/42/42/42/42/42/42/42/42-35



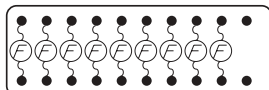
409-A

72-72-72-72-72-72-72-72-35



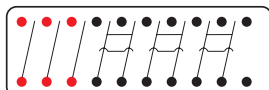
409-B

73/73/73/73/73/73/73/73/73-35



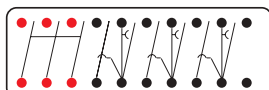
409-C

/42/42/42/44-44-44-35



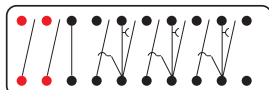
409-D

/78/46-46-46-35



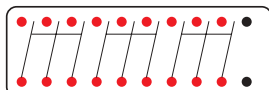
409-E

/42/42/61/46-46-46-35



409-F

78/78/78-35



409-G

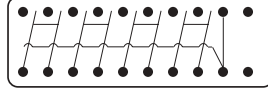
9-POLE (CONT.)

/42/44/42/44/42/44-35



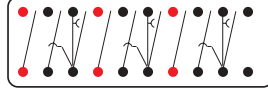
409-H

77-77-77-77-61-35



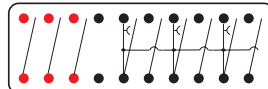
409-J

/42/46/42/46/42/46-35



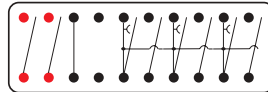
409-K

42/42/42-35-69-71-69-71-69-70



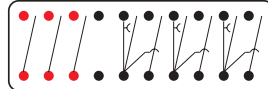
409-L

/42/42/61-35-69-71-69-71-69-70



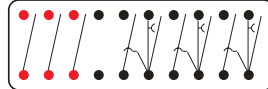
409-M

/42/42/42/35-45-45-45



409-N

/42/42/42/35-46-46-46



409-P

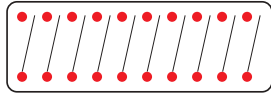
Other 9-Pole
Standard Arrangement:
/42/42/61/35-45-45-45
409-S

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow
kw: Black and White

STATES

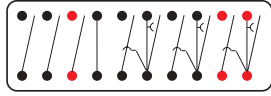
FRONT VIEW - 10-POLE

42/42/42/42/42/42/42/42/42/42/



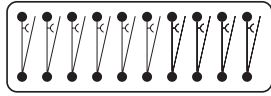
410-A

/42K/42G/42/61-46-46G-46R



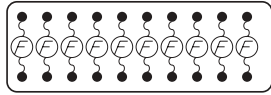
410-A1

72-72-72-72-72-72-72-72-72-72



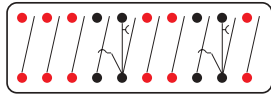
410-B

73/73/73/73/73/73/73/73/73/73/



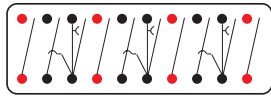
410-C

/42/42/42/46/42/42/46/42/



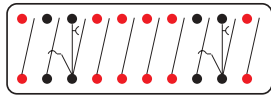
410-D

/42/46/42/46/42/46/42/



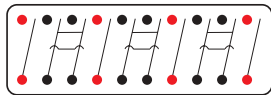
410-E

/42/46/42/42/42/42/46/42/



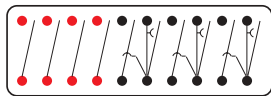
410-F

/42/44/42/44/42/44/42/



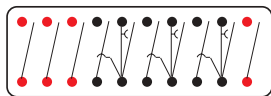
410-G

42/42/42/42/46-46-46



410-H

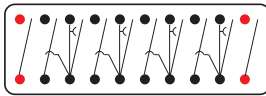
/42/42/42/46-46-46/42/



410-J

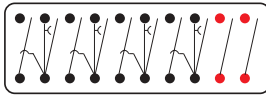
10-POLE (CONT.)

/42/46-46-46-46-/42/



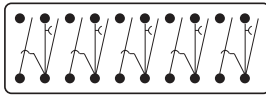
410-K

46-46-46-46/42/42



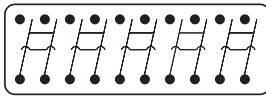
410-L

46-46-46-46-46



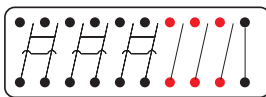
410-M

44-44-44-44-44



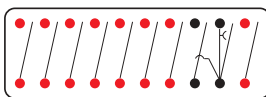
410-N

44-44-44/42/42/42/61/



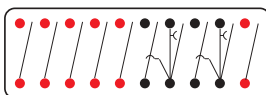
410-P

/42/42/42/42/42/42/42/46/42/



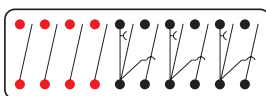
410-Q

/42/42/42/42/42/46-46/42/



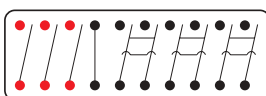
410-R

42/42/42/42/45-45-45



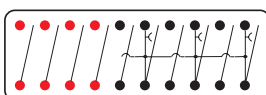
410-S

42/42/42/61/44-44-44



410-T

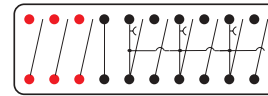
42/42/42/42/71-69-71-69-71-72



410-U

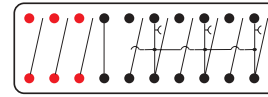
10-POLE (CONT.)

42/42/42/61/69-71-69-71-69-70



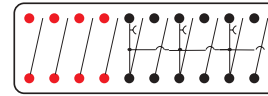
410-V

42/42/42/61/71-69-71-69-71-72



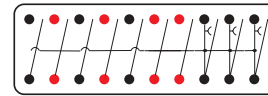
410-W

42/42/42/42/69-71-69-71-69-70



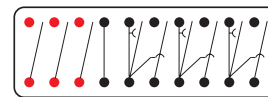
410-X

71/42/71/42/71/42/42/69-69-72



410-Y

42/42/42/61/45-45-45



410-Z

Other 10-Pole
Standard Arrangements:

42/42/42/61/46-46-46
410-T1

/42/46/42/46/42/71-69-42
410-Z1

**/42EU/46B/42WU/46G/42KWU/
46R/42KU/**
410-C7

**46RW/42E/46KW/42KW/46GW/
42B/42W**
410-C6

50/50/50/50/50
410-B5

**71G/42/71E/42B/71KW/42K/
42W/68W-68W-68W**
410-G1



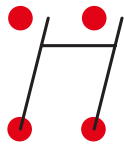
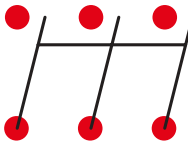

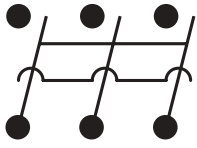

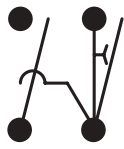
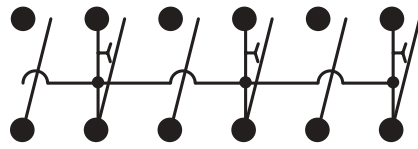

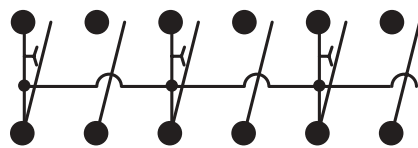

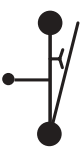




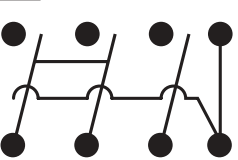
73/73/73/61/46-46-46
410-D7

Refer to next page for individual elements
to customize arrangements not shown on
these pages.

Color Key: k: Black b: Blue g: Green
e: Orange r: Red w: White n: Brown
y: Yellow kw: Black and White

STATES

ELEMENTS FOR CUSTOMIZED SWITCHES NOT LISTED UNDER TYPICAL ARRANGEMENTS

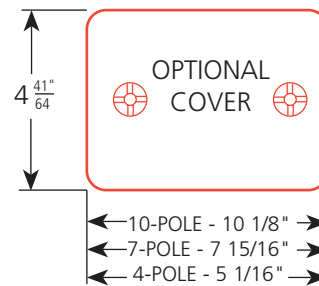
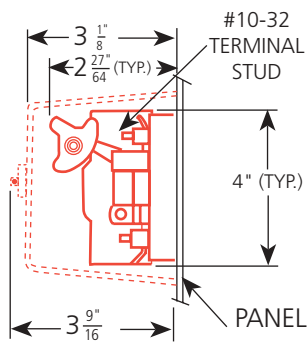
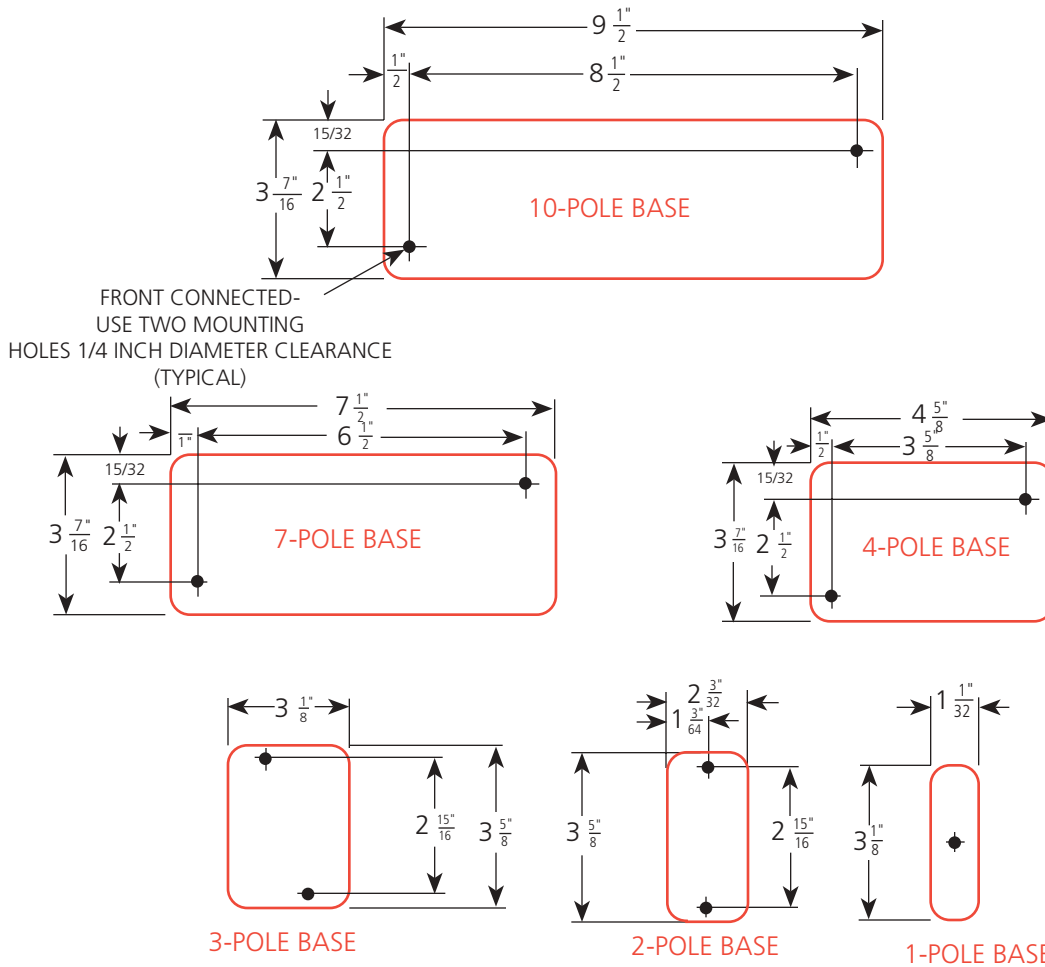
<p>35</p>  <p>Blank Space</p>	<p>42</p>  <p>Single-Pole Potential</p>	<p>62</p>  <p>Ganged Double-Pole Potential</p>	<p>78</p>  <p>Ganged Three-Pole Potential</p>
<p>44</p>  <p>Ganged Two-Pole Short-Circuiting Current Assembly</p>	<p>79</p>  <p>Ganged Three-Pole Short-Circuiting Current Assembly</p>	<p>61</p>  <p>Through Bar</p>	
<p>46</p>  <p>Right-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>84</p>  <p>Three Interconnected Right-Hand Current Assemblies</p>		
<p>45</p>  <p>Left-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>85</p>  <p>Three Interconnected Left-Hand Current Assemblies</p>		
<p>72</p>  <p>Current Test Jack</p>	<p>68</p>  <p>Current Test Jack With Left-Hand Common Bar</p>	<p>69</p>  <p>Current Test Jack With Right-Hand Common Bar</p>	<p>71</p>  <p>Short-Circuiting Assembly With Right-Hand Common Bar</p>
<p>70</p>  <p>Short-Circuiting Assembly With Left-Hand Common Bar</p>	<p>73</p>  <p>30-Amp Fuse Mounting Clips</p>	<p>81</p> 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. Barriers are provided between poles of opposite polarity. 2. Potential handles are red and current handles are black unless otherwise specified. 3. Specify adjacent handles to be ganged (yoked) if desired. 4. Fuse holder (assembly 73) does not include fuse. 5. Rating 30 amperes, 600 volts. 6. Arrange elements left to right, front view.

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

DIMENSIONS (IN INCHES)

FRONT-CONNECTED SWITCHES

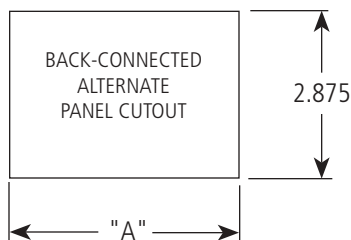
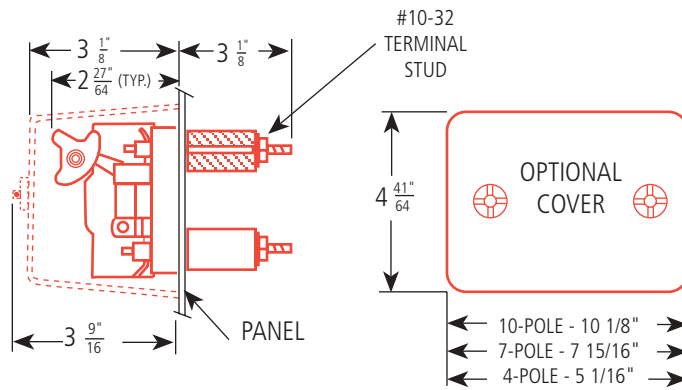
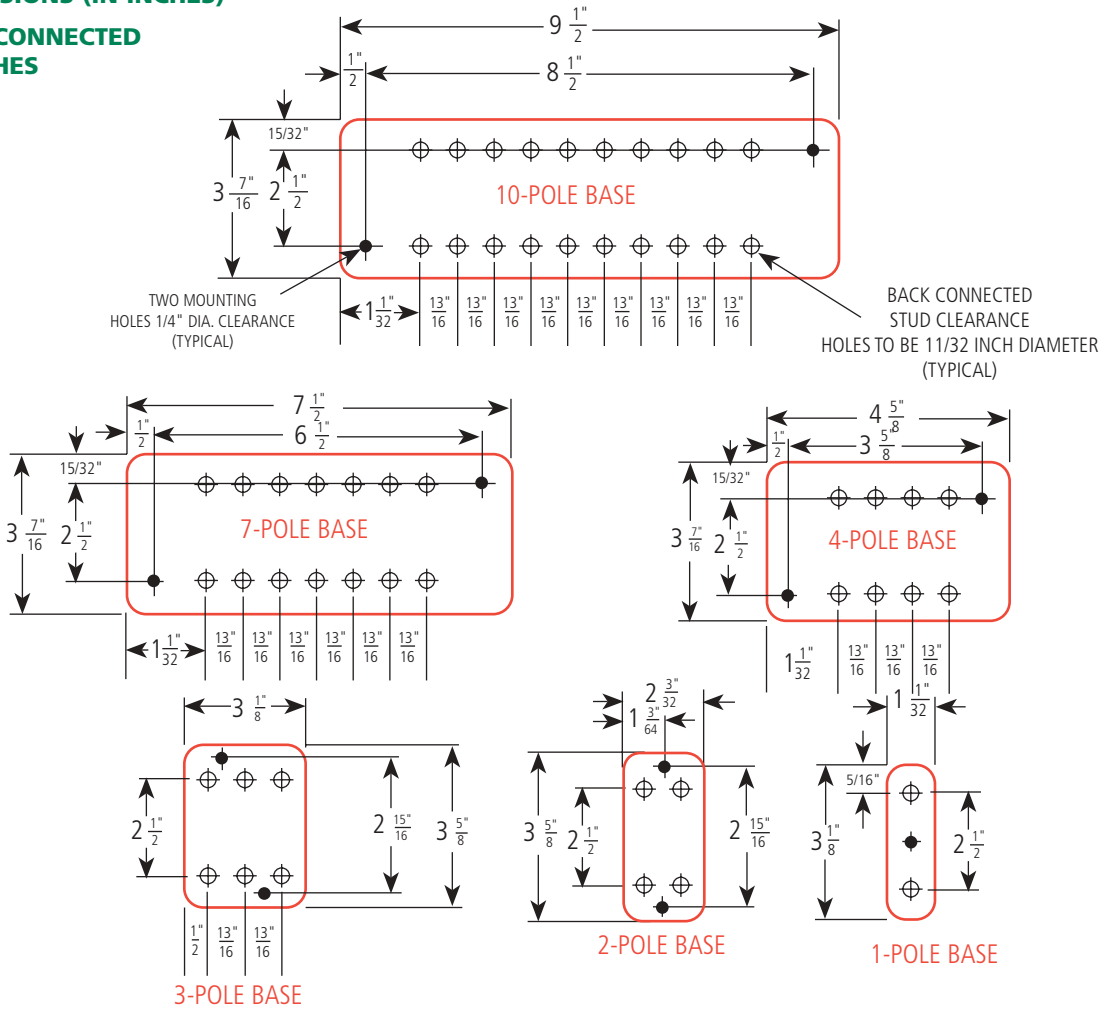


Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

DIMENSIONS (IN INCHES)

BACK-CONNECTED SWITCHES

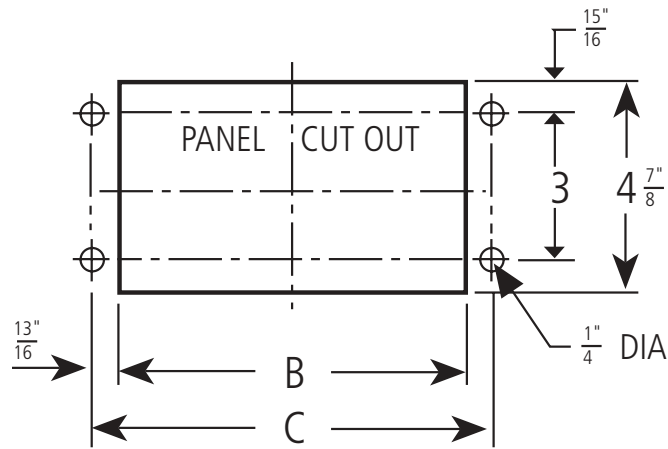
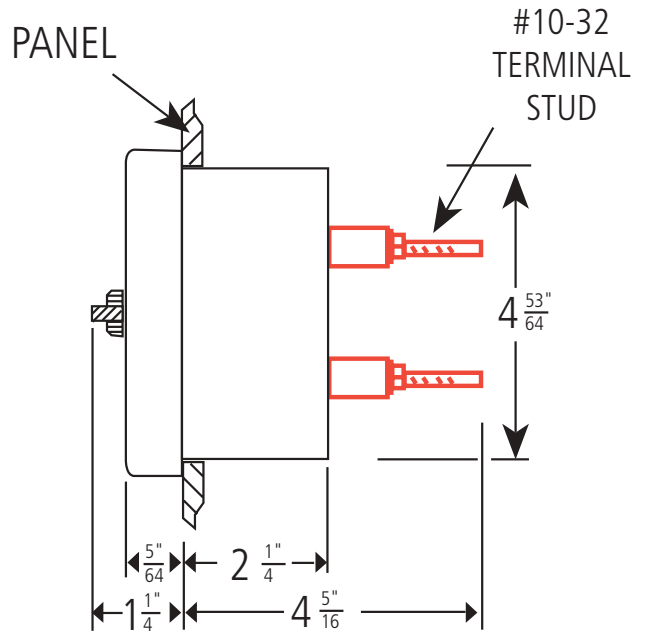
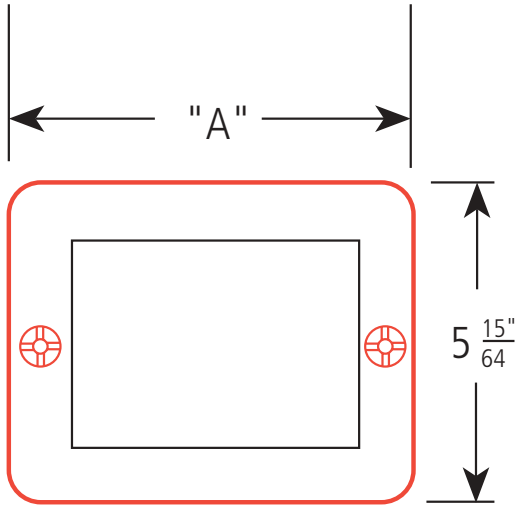


NUMBER OF POLES	DIMENSION "A"
4	2 13/16"
7	5 1/4"
10	7 11/16"

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

DIMENSIONS (IN INCHES) FLUSH-MOUNTED SWITCHES



BASE SIZE (POLES)	DIMENSIONS IN INCHES		
	A	B	C
4	6 $\frac{7}{16}$ "	5 $\frac{7}{32}$ "	5 $\frac{5}{8}$ "
7	9 $\frac{39}{64}$ "	8 $\frac{13}{32}$ "	8 $\frac{13}{16}$ "
10	12 $\frac{13}{16}$ "	11 $\frac{19}{32}$ "	12"

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

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