

# STATES

## Type RTS Test Switches



RTS Switch features a convenient push-pull knob.

### DESCRIPTION

STATES Type RTS Test Switches are designed to simplify and speed testing and check-out of relay, control and instrumentation systems. They eliminate the need to change connections and prevent open-circuiting CTs during tests. Featured is a unique arrangement of stationary and sliding contacts in a well insulated glass-filled polycarbonate body. RTS switches are essentially double-pole, double-throw switches operated by push-pull knob. Multiple switches made up of two to four units operated by a single shaft and knob are available in several arrangements (see table below).

### RATINGS

600 volts, 15 amps

### FUNCTION OF THE DIFFERENT UNITS

(When used in conjunction with relays)

#### Type C

##### Current Unit - Make-Before-Break

Short-circuits the current transformer and connects the relay current coil to the test terminals on the switch.

#### Type P

##### Potential Unit - Break-Before-Make

Opens the trip circuit and connects the relay contacts to the test terminals on the switch.

#### Type A

##### Ammeter Unit - Make-Before-Break

Connects current transformer to ammeter circuit on test switch before opening relay current coil circuit.

#### Type S

##### Single-Pole, Double-Throw Switch

The knob is pulled out to bring the switch to the “test” position. After testing is completed, the knob is pushed into its original position, assuring that CTs will not be left shorted and that the relay is properly reconnected to its circuit. A typical application would be for a dual unit switch, Part No. 29102-A, consisting of a potential and current unit. Pulling the switch to the test position will simultaneously open the trip circuit, short-circuit the CT and connect the relay’s current coil and contacts to test terminals on the switch.

### DIMENSIONS

Requiring very little panel space, type RTS switches are mounted through a single  $\frac{3}{8}$  inch hole in panels up to  $\frac{1}{2}$  inch thick. Behind the panel, each double-pole, double-throw unit is only  $2\frac{3}{8}$  inch high (including terminals) x  $1\frac{1}{8}$  inch wide x  $6\frac{1}{8}$  inch long. Single-pole, double-throw switches (Type S) are  $4\frac{1}{8}$  inch long.

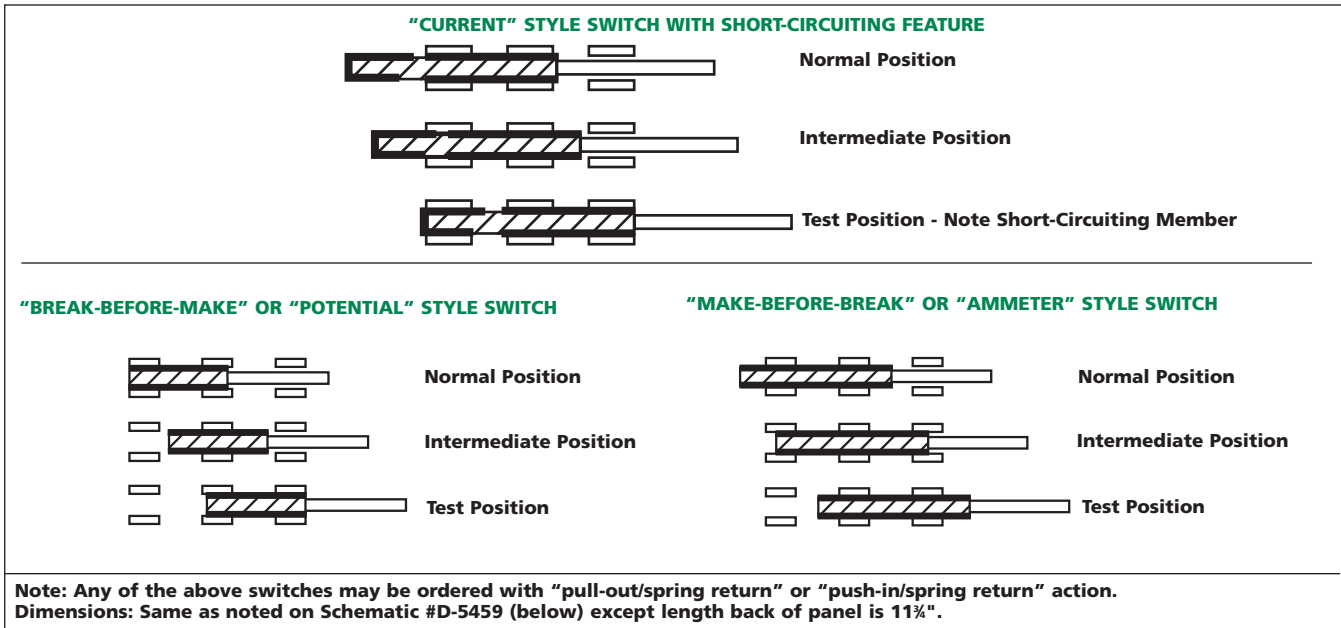
### STANDARD ARRANGEMENTS

Type C: Current Unit			Type A: Ammeter Unit		Type P: Potential Unit		Type S: Single-Pole, Double-Throw	
No. of Units	Unit Arrangement	Part No.	No. of Units	Unit Arrangement	Part No.	No. of Units	Unit Arrangement	Part No.
1	C	25100	3	SSS	29103-A	4	PCPP	29104-A
	P	R-261 00		PCP	29103-B		CCPP	29104-B
	A	27100		PPP	R-29103-C		CCCP	29104-C
	S	28100		PAP	29103-D			
2	PC	29102-A	AAA	29103-E				
	PP	R-29102-B	CCC	29103-F				
	CC	29102-C		29103-G				
	AA	29102-D						

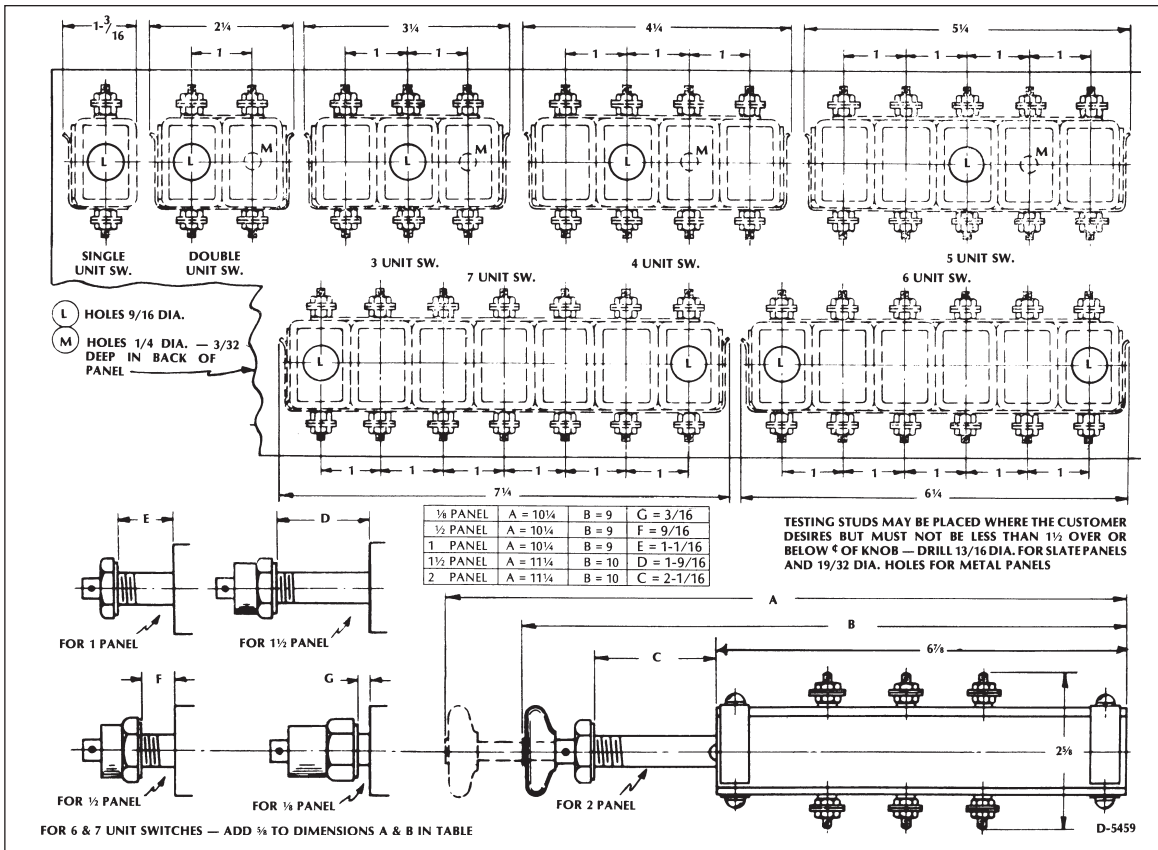
Note: “P” Potential Switches are supplied with red (R) knob unless specified with black knob.

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## SCHEMATIC DIAGRAM OF CERTAIN "RTS" SWITCHES



## DIMENSIONS OF TYPE "RTS" SWITCHES



## ORDERING INFORMATION

Contact Technical Sales for Ordering Information 1-800-325-4574  
 See Accessories on page 67.