

TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

# SERIES 100A SWITCHES

## TOGGLE SWITCHES - MINIATURE



### FEATURES & BENEFITS

- Variety of switching functions
- Miniature
- Multiple actuator & bushing options
- Sealed to IP67

### APPLICATIONS/MARKETS

- Telecommunications
- Instrumentation
- Networking
- Medical equipment

### SPECIFICATIONS

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| Contact Rating:        | Dependent upon contact material                                                               |
| Life Expectancy:       | 30,000 make-and-break cycles at full load                                                     |
| Contact Resistance:    | 10 m $\Omega$ 1max. typical initial @ 2-4 VDC 100 mA for both silver and gold plated contacts |
| Insulation Resistance: | 1,000 M $\Omega$ 1min.                                                                        |
| Dielectric Strength:   | 1,000 V RMS @ sea level                                                                       |
| Operating Temperature: | -30° C to 85° C                                                                               |

### MATERIALS

|                       |                                                |
|-----------------------|------------------------------------------------|
| Case & Bushing:       | PBT                                            |
| Pedestal of Case:     | LPC                                            |
| Actuator:             | Brass, chrome plated with internal O-ring seal |
| Switch Support:       | Brass or steel tin plated                      |
| Contacts / Terminals: | Silver or gold plated copper alloy             |



### HOW TO ORDER

| SERIES<br>100A | MODEL NO.                                                                    | ACTUATOR | BUSHING  | TERMINATION                              | CONTACT MATERIAL       | SEAL<br>E                                     | HARDWARE     |
|----------------|------------------------------------------------------------------------------|----------|----------|------------------------------------------|------------------------|-----------------------------------------------|--------------|
|                | WSP1<br>WSP2<br>WSP3<br>WSP4<br>WSP5<br>WDP1<br>WDP2<br>WDP3<br>WDP4<br>WDP5 | T1<br>T2 | B1<br>B4 | M1<br>M2<br>M5<br>M6<br>M7<br>VS2<br>VS3 | Q = Silver<br>R = Gold | E = Epoxy<br>Sealed at<br>Base of<br>Terminal | H = Hardware |



### Example Ordering Number

100A-WDP4-T1-B4-M1-R-E

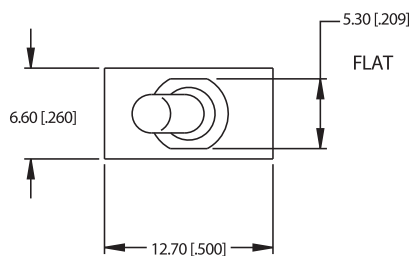
Specifications subject to change without notice.

## SPDT



2 Comm.  
1 3

SCHEMATIC



| Model No.   | POS 1 | POS 2 | POS 3 |
|-------------|-------|-------|-------|
| WSP-1       | ON    | NONE  | ON    |
| WSP-2       | ON    | NONE  | (ON)  |
| WSP-3       | ON    | OFF   | ON    |
| WSP-4       | (ON)  | OFF   | (ON)  |
| WSP-5       | ON    | OFF   | (ON)  |
| Term. Comm. | 2-3   | OPEN  | 2-1   |

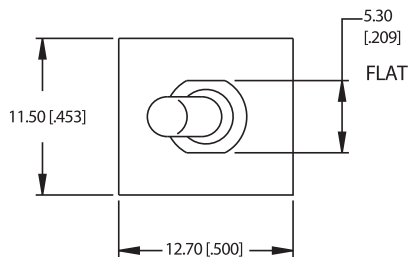
( ) = Momentary



## DPDT



SCHEMATIC

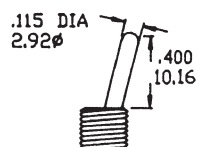


| Model No.   | POS 1    | POS 2 | POS 3    |
|-------------|----------|-------|----------|
| WDP-1       | ON       | NONE  | ON       |
| WDP-2       | ON       | NONE  | (ON)     |
| WDP-3       | ON       | OFF   | ON       |
| WDP-4       | (ON)     | OFF   | (ON)     |
| WDP-5       | ON       | OFF   | (ON)     |
| Term. Comm. | 2-3, 5-6 | OPEN  | 2-1, 5-4 |

( ) = Momentary

## ACTUATOR OPTIONS

## T1



T1 actuator std. when ordered with M1 termination.  
Add 0.100 (2.54) for B4 bushing.

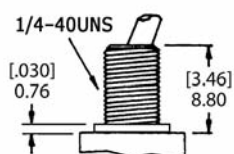
## T2



T2 actuator std. when ordered with VS, M2, M6 or M7 terminations.  
Add 0.100 (2.54) for B4 bushing.

## BUSHING OPTIONS

## B1



Std for M1

## B4



Std for M2, M6, M7, VS termination

CAP  
OPTIONS



## M6

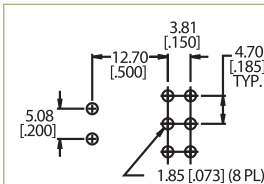
SPDT



P.C. MOUNTING

## M6

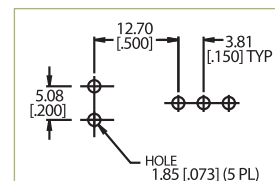
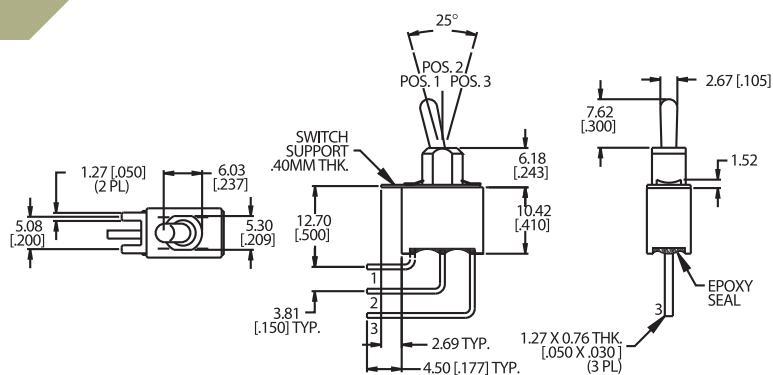
DPDT



P.C. MOUNTING

## M7

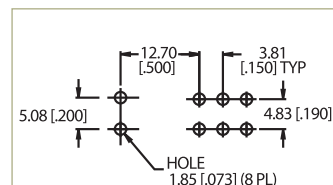
SPDT



P.C. MOUNTING

## M7

DPDT



P.C. MOUNTING

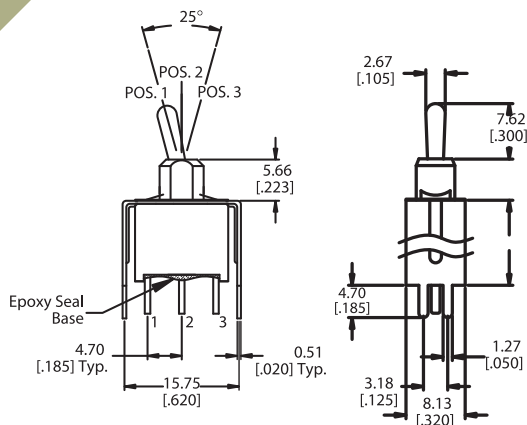
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# SERIES 100A SWITCHES

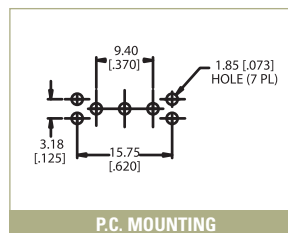
## TOGGLE SWITCHES - MINIATURE

### VS2-VS3

SPDT



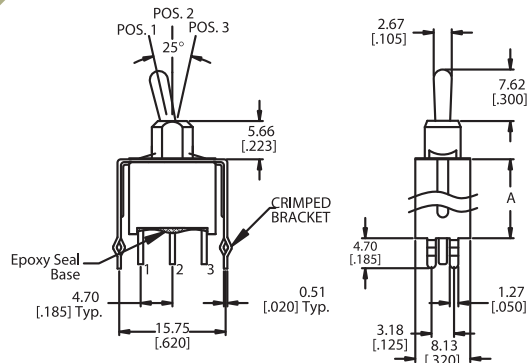
| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |



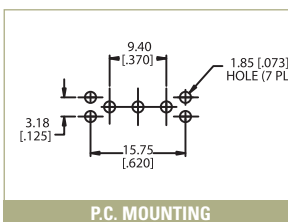
P.C. MOUNTING

### VS2-VS3

DPDT



| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |



P.C. MOUNTING

### CONTACT MATERIAL OPTIONS

Q

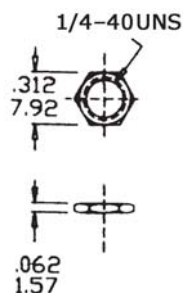
|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| Fixed Terminal: | Gold flash over silver plated copper alloy                                           |
| Moving Contact: | Silver plated copper alloy                                                           |
| Rating:         | 5 Amps with resistive load @ 120VAC or 28VDC;<br>2 Amps with resistive load @ 250VAC |

R

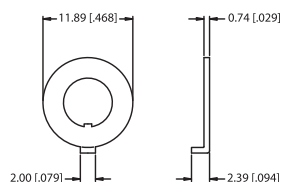
|                 |                                                |
|-----------------|------------------------------------------------|
| Fixed Terminal: | Copper alloy with gold plate over nickel plate |
| Moving Contact: | Copper alloy with gold plate overnickel plate  |
| Rating:         | 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)  |

### HARDWARE

#### HDW2 NUT



#### HDW15 LOCKING RING



#### HDW11 LOCK WASHER

