

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

US



### SPECIFICATIONS

|                        |   |
|------------------------|---|
| Contact Rating:        | See contact material options  |
| Life Expectancy:       | 40,000 make-and-break cycles  |
| Contact Resistance:    | 10 mΩ max. typical initial @ 2-4 VDC<br>100 mA for both silver and gold plated contacts |
| Insulation Resistance: | 1,000 MΩ min.   |
| Dielectric Strength:   | 1,000 V RMS @ sea level   |
| Operating Temperature: | -30° C to 85° C   |

### MATERIALS

|                       |                                    |
|-----------------------|------------------------------------|
| Case:                 | Diallyl Phthalate (DAP)            |
| Toggle Handle:        | Brass, chrome plated               |
| Switch Support:       | Brass or steel, tin plated         |
| Bushing:              | Brass, nickel plated               |
| Housing:              | Stainless steel                    |
| Contacts / Terminals: | Silver or gold plated copper alloy |

### FEATURES & BENEFITS

- ▶ Up to 4 poles available
- ▶ Variety of switching functions
- ▶ Miniature
- ▶ Multiple actuator & bushing options

### APPLICATIONS/MARKETS

- ▶ Telecommunications
- ▶ Instrumentation
- ▶ Networking
- ▶ Medical equipment

### HOW TO ORDER

| SERIES | MODEL NO. | ACTUATOR   | BUSHING | TERMINATION | CONTACT MATERIAL       | SEAL  | HARDWARE     |
|--------|-----------|--|---------|-------------|------------------------|---|--------------|
| 100    | SP1       | T1†  | B1      | M1          | Q = Silver<br>R = Gold | E = Epoxy<br>Sealed at<br>Base of<br>Terminal | H = Hardware |
|        | SP2*      | T2   | B2      | M2          |                        |   |              |
|        | SP3       | T3   | B3      | M3          |                        |   |              |
|        | SP4*      | T4   | B4      | M5          |                        |   |              |
|        | SP5*      | T5   | B5      | M6          |                        |   |              |
|        | DP1       | T6   | B6      | M61         |                        |   |              |
|        | DP2*      | T7   | B8      | M7          |                        |   |              |
|        | DP3       | T8   | B9      | M71         |                        |   |              |
|        | DP4*      | T9   | B11     | VS2         |                        |   |              |
|        | DP5*      | K1   | B12     | VS3         |                        |   |              |
|        | DP6       | K2   | B13     | VS5*        |                        |   |              |
|        | DP7*      |  | B15     | M64*        |                        |   |              |
|        | DP8*      | † Optional<br>Toggle Cap<br>(T1 Only):<br>T100-1 = White<br>T100-2 = Black | B16     | VS21*       |                        |   |              |
|        | 3P1       |  | B25**   | VS31*       |                        |   |              |
|        | 3P2*      |  | B26**   |             |                        |   |              |
|        | 3P3       |  |         |             |                        |   |              |
|        | 3P4*      |  |         |             |                        |   |              |
|        | 3P5*      |  |         |             |                        |   |              |
|        | 4P1       |  |         |             |                        |   |              |
|        | 4P2*      |  |         |             |                        |   |              |
|        | 4P3       |  |         |             |                        |   |              |
|        | 4P4*      |  |         |             |                        |   |              |
|        | 4P5*      |  |         |             |                        |   |              |
|        | 4P6       |  |         |             |                        |   |              |
|        | 4P7*      |  |         |             |                        |   |              |
|        | 4P8*      |  |         |             |                        |   |              |

▶ ▶ ▶ Example Ordering Number  
100-SP1-T4-B2-M1-R-E

Notes: \* Not available with the K1 and K2 actuator options.

\*\* Available only with the K1 and K2 actuator options.

Specifications subject to change without notice.



### SPDT



SCHEMATIC



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

( ) = Momentary

### DPDT



SCHEMATIC



| Model No.   | POS 1    | POS 2 | POS 3    |
|-------------|----------|-------|----------|
| DP-1        | ON       | NONE  | ON       |
| DP-2        | ON       | NONE  | (ON)     |
| DP-3        | ON       | OFF   | ON       |
| DP-4        | (ON)     | OFF   | (ON)     |
| DP-5        | ON       | OFF   | (ON)     |
| DP-7        | ON       | ON    | (ON)     |
| DP-8        | (ON)     | ON    | (ON)     |
| Term. Comm. | 2-3, 5-6 | OPEN  | 2-1, 5-4 |

|             |          |          |          |
|-------------|----------|----------|----------|
| DP-6        | ON       | ON       | ON       |
| Term. Comm. | 2-3, 5-6 | 2-3, 5-4 | 2-1, 5-4 |

( ) = Momentary

### 3PDT



SCHEMATIC



| Model No.   | POS 1           | POS 2 | POS 3           |
|-------------|-----------------|-------|-----------------|
| 3P-1        | ON              | NONE  | ON              |
| 3P-2        | ON              | NONE  | (ON)            |
| 3P-3        | ON              | OFF   | ON              |
| 3P-4        | (ON)            | OFF   | (ON)            |
| 3P-5        | ON              | OFF   | (ON)            |
| Term. Comm. | 2-3, 5-6<br>8-9 | OPEN  | 2-1, 5-4<br>8-7 |

( ) = Momentary

### 4PDT



SCHEMATIC



| Model No.   | POS 1                    | POS 2 | POS 3                    |
|-------------|--------------------------|-------|--------------------------|
| 4P-1        | ON                       | NONE  | ON                       |
| 4P-2        | ON                       | NONE  | (ON)                     |
| 4P-3        | ON                       | OFF   | ON                       |
| 4P-4        | (ON)                     | OFF   | (ON)                     |
| 4P-5        | ON                       | OFF   | (ON)                     |
| 4P-7        | ON                       | ON    | (ON)                     |
| 4P-8        | (ON)                     | ON    | (ON)                     |
| Term. Comm. | 2-3, 5-6<br>8-9<br>11-12 | OPEN  | 2-1, 5-4<br>8-7<br>11-10 |

|             |                          |                          |                          |
|-------------|--------------------------|--------------------------|--------------------------|
| 4P-6        | ON                       | ON                       | ON                       |
| Term. Comm. | 2-3, 5-6<br>8-9<br>11-12 | 2-3, 5-4<br>8-9<br>11-10 | 2-1, 5-4<br>8-7<br>11-10 |

( ) = Momentary

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

### 3 - WAY WIRING DIAGRAM SCHEMATICS



### ACTUATOR OPTIONS



\*Add .070 (1.78) for B3, B4 bushings, subtract .020 (0.51) for B6 bushing.

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS



### BUSHING OPTIONS

**B1 THD STD**

**B2 NON-THD**



**B3 THD STD**

**B4 NON-THD**



B4 is standard for M6, M7 and VS termination options.

**B5 HIGH TORQUE**



**B6 HIGH TORQUE**



**B8 METRIC THD**



**B9 SPLASH PROOF**



**B13**



Use with T7 and T8 actuators only

**B11 THD STD**

**B12 NON-THD**



Use with T6 actuator only

**B15 THD STD**

**B16 NON-THD**



Use with T6 actuator only

**B25**



**B26**

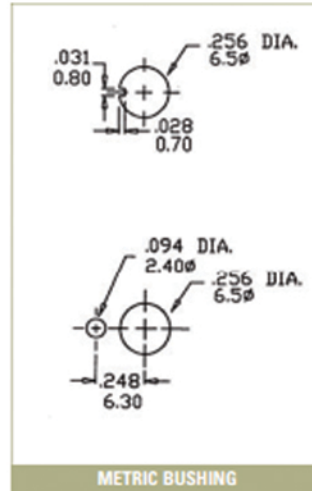
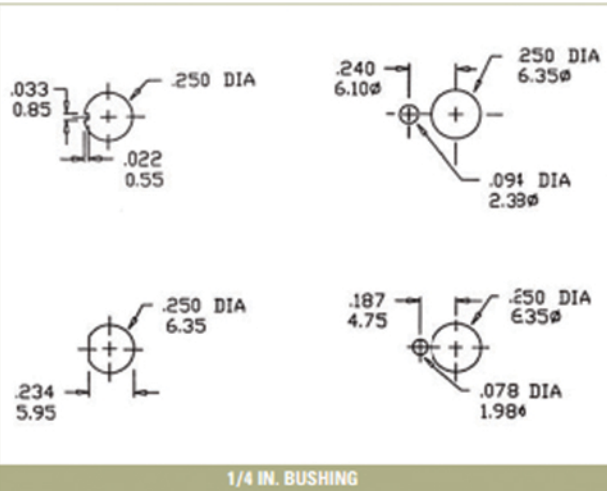




# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

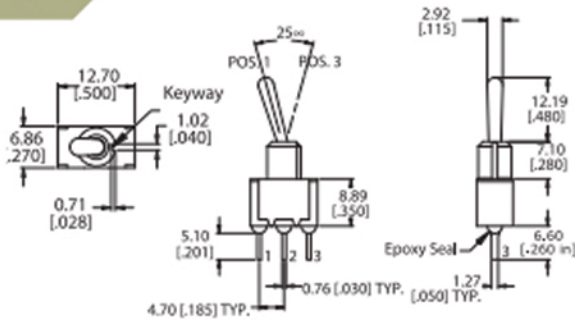
### BUSHING OPTIONS - PANEL MOUNTING



### TERMINATION OPTIONS

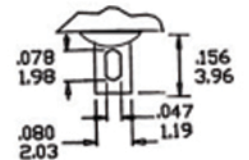
#### M2

##### SPDT



#### M1

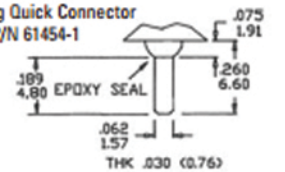
##### SOLDER LUG



#### M3

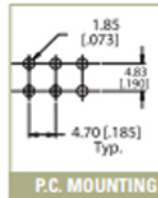
##### QUICK CONNECT

Mating Quick Connector  
Amp P/N 61454-1



#### M2

##### DPDT



#### M5

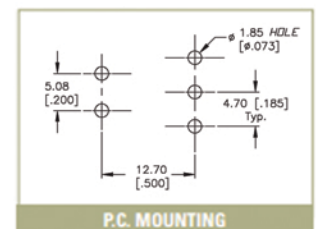
##### WIRE WRAP

| Option Code | Dim. 'A'      |
|-------------|---------------|
| M51         | .750 (18.7)   |
| M52         | .964 (24.48)  |
| M53         | .425 (10.80)  |
| M54         | 1.062 (26.97) |



#### M6

##### SPDT





### M6

DPDT



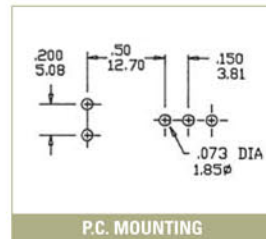
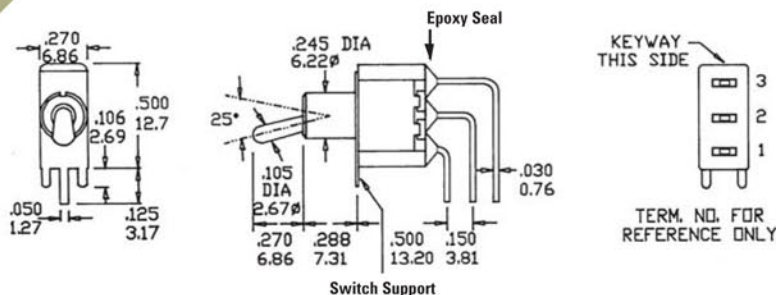
TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

### M7

SPDT

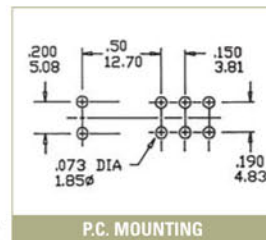
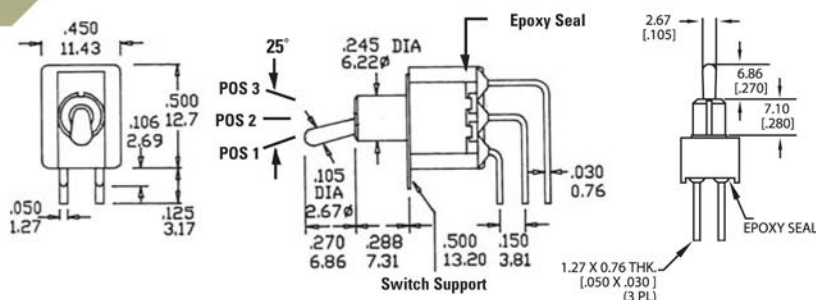


TOGGLE SWITCHES

ROCKER SWITCHES

### M7

DPDT

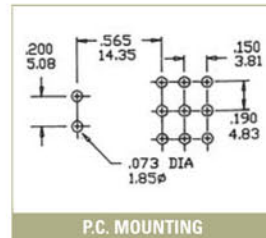
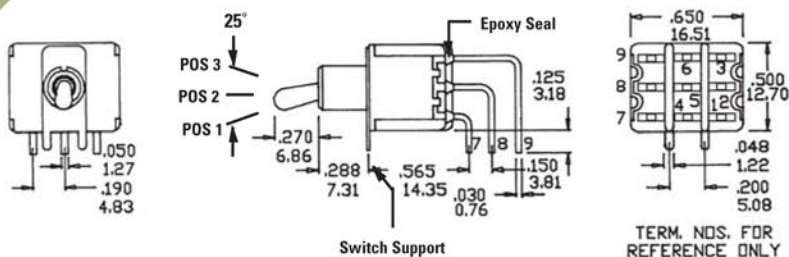


SLIDE SWITCHES

SNAP-ACTION SWITCHES

### M7

3PDT



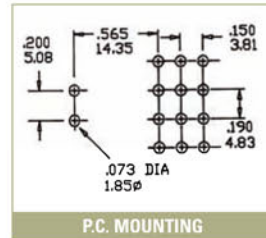
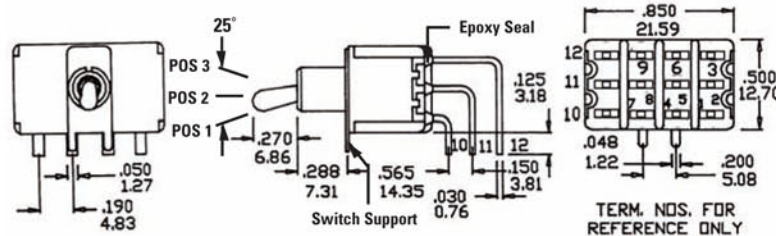
DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

### M7

4PDT



DETECTOR SWITCHES

CAP OPTIONS

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

TACT  
SWITCHES

NAVIGATION  
SWITCHES

PUSHBUTTON  
SWITCHES

TOGGLE  
SWITCHES

ROCKER  
SWITCHES

SLIDE  
SWITCHES

SNAP-ACTION  
SWITCHES

DIP  
SWITCHES

KEYLOCK  
SWITCHES

ROTARY  
SWITCHES

DETECTOR  
SWITCHES

CAP  
OPTIONS

### VS2-VS3

SPDT



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



### VS2-VS3

DPDT



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



### VS5

DPDT



| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS5         | .630 (16.00) |



### M61

SPDT







### M61

DPDT



### M71

SPDT



### M64

SPDT



TACT SWITCHES  
 NAVIGATION SWITCHES  
 PUSHBUTTON SWITCHES  
 TOGGLE SWITCHES  
 ROCKER SWITCHES  
 SLIDE SWITCHES  
 SNAP-ACTION SWITCHES  
 DIP SWITCHES  
 KEYLOCK SWITCHES  
 ROTARY SWITCHES  
 DETECTOR SWITCHES  
 CAP OPTIONS



# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

### VS21-VS31

SPDT



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



P.C. MOUNTING

### VS21-VS31

DPDT



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



P.C. MOUNTING

### OPTIONAL TOGGLE CAP



Use with T1  
T100-1 WHITE  
T100-2 BLACK



### CONTACT MATERIAL OPTIONS

**Q**

|                 |  |
|-----------------|--|
| Fixed Terminal: | Silver plated over copper alloy  |
| Moving Contact: | Silver plated over 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 over nickel plate |
| Rating:         | 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)  |



**HARDWARE**

**HDW2 1/4 IN. NUTS**



Supplied standard with B1, B3, B5, B6 and B9 options

**HDW3 BLIND DRESSNUT**



**HDW6 METRIC NUT**



Supplied standard with B8 metric bushing

**HDW11 LOCK WASHER**



Supplied standard with B1/B3 bushing

**Optional Rubber Hood Sealing E1**



E1= Inch (Std.) for actuator T1, T2 and bushings B1, B3, B5, B6 Optional rubber boot sealing

**HDW4 15/32 IN. NUTS**



Supplied standard with B13 bushing

**HDW12 LOCK WASHER**



Supplied standard with B13 bushing

**HDW15 LOCKING RING**



Supplied standard

**HDW16 LOCKING RING**



Supplied with B5 bushing

**HDW17 LOCKING RING**



Supplied with B13 bushing

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

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SLIDE SWITCHES

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KEYLOCK SWITCHES

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DETECTOR SWITCHES

CAP OPTIONS

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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