

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 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 R = Gold | E = Epoxy Sealed at Base of 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 Toggle Cap (T1 Only): T100-1 = White 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 8-9 | OPEN | 2-1, 5-4 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 8-9 11-12 | OPEN | 2-1, 5-4 8-7 11-10 |

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

() = Momentary

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3 - WAY WIRING DIAGRAM SCHEMATICS



Bottom View
or DP-6, DP-7, DP-8



Bottom View
for 4P-6, 4P-7, 4P-8



ACTUATOR OPTIONS

T1* STANDARD



T2*



T3*



T4*



T5*



T6 FLATTED WITH BUILT IN ANTIROTATION



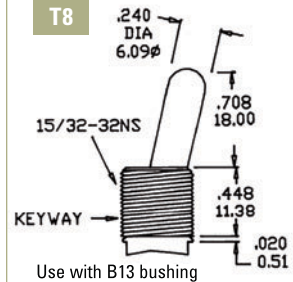
Use with B11, B12, B15, B16 only

T7



Use with B13 bushing

T8



Use with B13 bushing

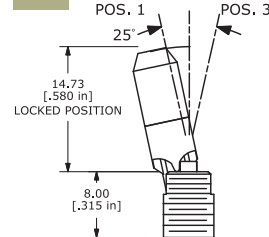
T9* PLASTIC BLACK



K1



K2



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



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



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BUSHING OPTIONS - PANEL MOUNTING



TERMINATION OPTIONS

M2

SPDT



M1

SOLDER LUG



M3

QUICK CONNECT

Mating Quick Connector
Amp P/N 61454-1



M2

DPDT



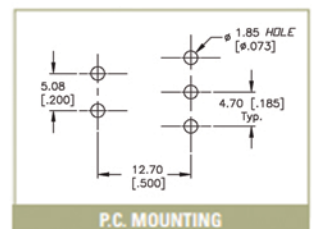
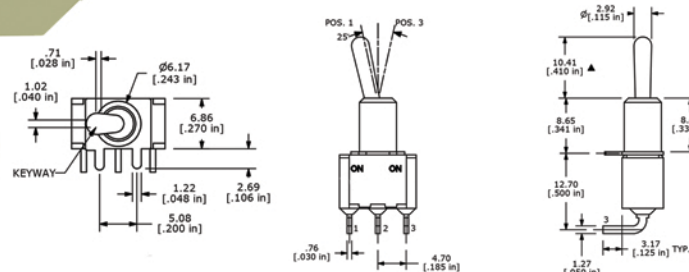
M5

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



P.C. MOUNTING

M7

SPDT



P.C. MOUNTING

M7

DPDT



P.C. MOUNTING

M7

3PDT



P.C. MOUNTING

M7

4PDT



P.C. MOUNTING

SERIES 100 SWITCHES

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TACT
SWITCHES

NAVIGATION
SWITCHES

PUSHBUTTON
SWITCHES

TOGGLE
SWITCHES

ROCKER
SWITCHES

SLIDE
SWITCHES

SNAP-ACTION
SWITCHES

DIP
SWITCHES

KEYLOCK
SWITCHES

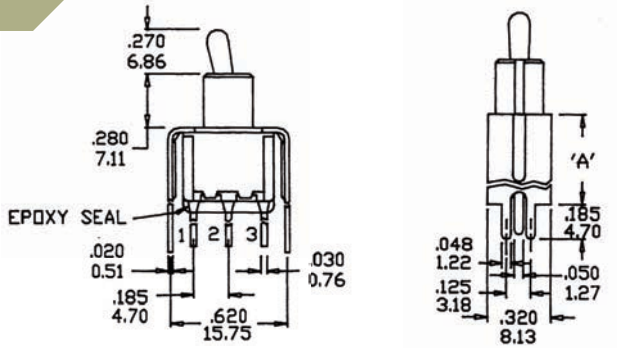
ROTARY
SWITCHES

DETECTOR
SWITCHES

CAP
OPTIONS

VS2-VS3

SPDT



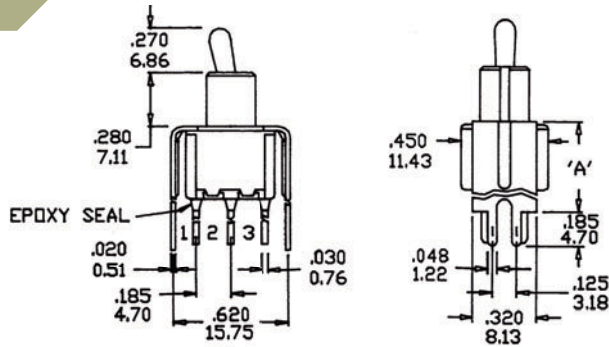
| Option Code | Dim. 'A' |
|-------------|--------------|
| VS2 | .460 (11.68) |
| VS3 | .630 (16.00) |



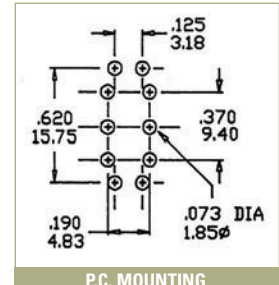
P.C. MOUNTING

VS2-VS3

DPDT



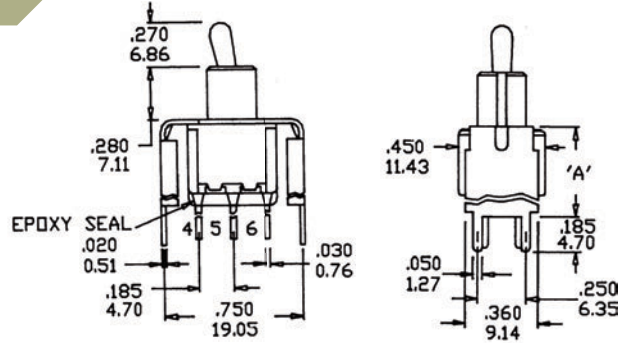
| Option Code | Dim. 'A' |
|-------------|--------------|
| VS2 | .460 (11.68) |
| VS3 | .630 (16.00) |



P.C. MOUNTING

VS5

DPDT



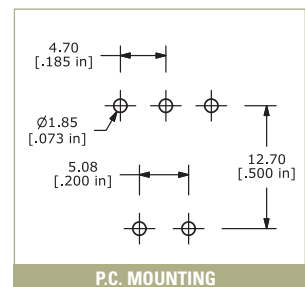
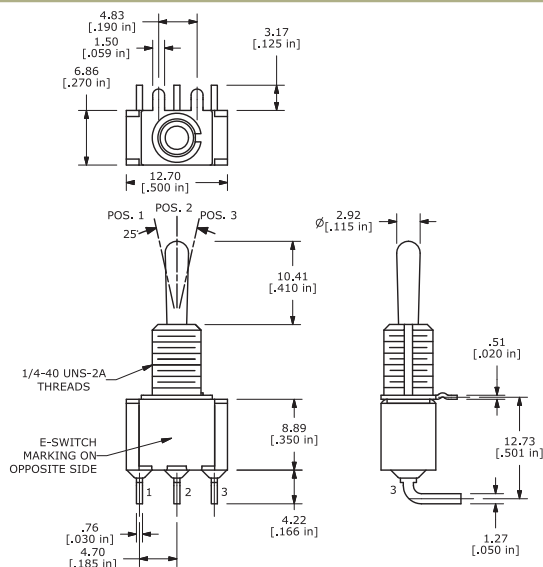
| Option Code | Dim. 'A' |
|-------------|--------------|
| VS5 | .630 (16.00) |



P.C. MOUNTING

M61

SPDT



P.C. MOUNTING



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

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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; 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

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

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