

## Slide Switches, Low Profile, Instrumentation Grade

### MATERIAL SPECIFICATIONS:

Contacts .....	Gold or silver over nickel over Cu alloy
Frame Material .....	Nickel plated, Steel
Actuator Material .....	POM 94 HB
Terminals/Fixed Contacts.....	Gold or silver over nickel over Cu alloy
Terminal Seal .....	Epoxy

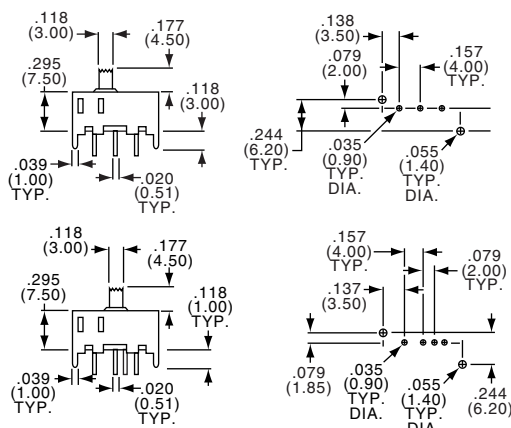
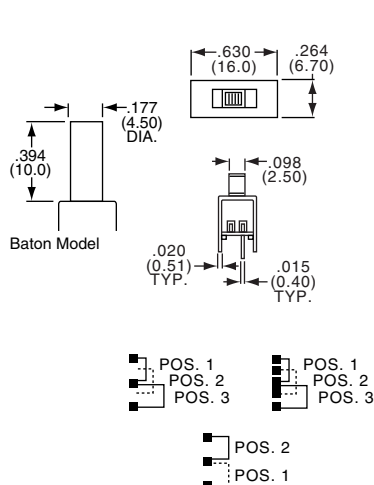
### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +212°F (-20°C to +100°C)  
Storage Temperature.....-40°F to +212°F (-40°C to + 100°C)  
Solder Heat Resistance .....See page M3-4  
Recommended Cleaning.....No chlorine base or Freon can be used.  
Aqueous or 100% ethanol.

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....	Gold: 0.4 VA 20 VDC or peak AC Silver: 300 mA @ 125 VAC
Initial Contact Resistance .....	20 Milliohms max.
Contact Timing .....	Make-before-break
Insulation Resistance .....	1000 Megohms min.
Dielectric Strength .....	500 Volts RMS @ sea level
Actuation Force .....	50 to 450 Grams
Actuator Travel .....	0.079"- .158" (2.01-4.01)
Life Expectancy .....	Up to 15,000 Cycles

**B**  
**MHS Series**



SPDT/SP3T

Standard






MHS122  
MHS123

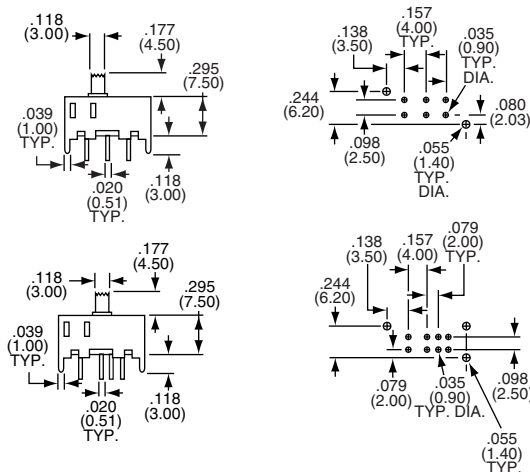
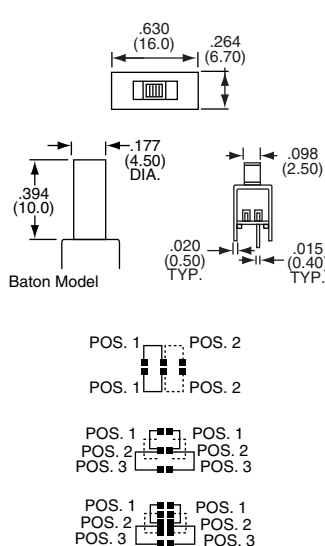
MHS122



MHS133

MHS122K

Standard Model	Alcoswitch	Baton Model	Alcoswitch	Type				Contacts
Tyco Electronics		Tyco Electronics						
1-1437576-9	MHS122	1-1437576-2	MHS122K	SPDT	On	None	On	Silver
1-1437576-5	MHS123	1-1437576-7	MHS123K	SPDT	On	Off	On	Silver
1-1437576-9	MHS133	2-1437576-2	MHS133K	SP3T	On	On	On	Silver
1-1437576-0	MHS122G	1-1437576-3	MHS122KG	SPDT	On	None	On	Gold
—	MHS123G	—	MHS123KG	SPDT	On	Off	On	Gold
2-1437576-0	MHS133G	2-1437576-3	MHS133KG	SP3T	On	On	On	Gold



DPDT/DP3T

Standard






MHS233



MHS233

MHS233K

Standard Model Tyco Electronics	Alcoswitch	Baton Model Tyco Electronics	Alcoswitch	Type				Contacts
2-1437576-5	MHS222	2-1437576-8	MHS222K	DPDT	On	None	On	Silver
3-1437576-1	MHS223	3-1437576-4	MHS223K	DPDT	On	Off	On	Silver
3-1437576-6	MHS233	3-1437576-9	MHS233K	DP3T	On	On	On	Silver
2-1437576-6	MHS222G	2-1437576-9	MHS222KG	DPDT	On	None	On	Gold
3-1437576-2	MHS223G	—	MHS223KG	DPDT	On	Off	On	Gold
3-1437576-7	MHS233G	4-1437576-0	MHS233KG	DP3T	On	On	On	Gold

**Slide Switches, Low Profile, Right Angle, Instrumentation Grade**

SEE PAGE B33 FOR PRODUCT SPECIFICATIONS

B

MHS Series

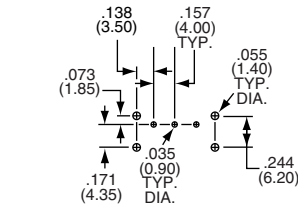
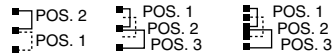
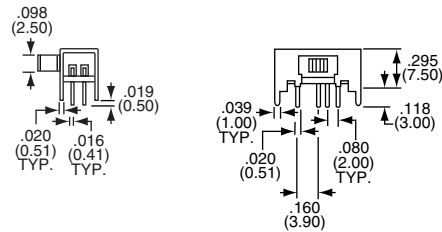
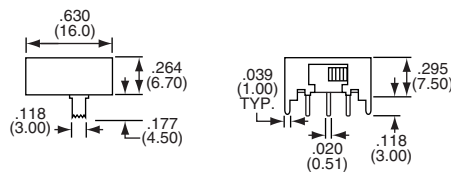
SPDT/SP3T



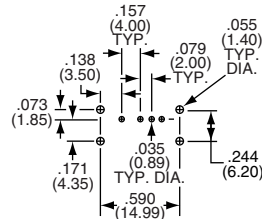
MHS122RA



MHS133GRA



MHS122/123



MHS133

Tyco Electronics	Alcoswitch	Type				Contacts
1-1437576-4	MHS122RA	SPDT	On	None	On	Silver
1-1437576-8	MHS123RA	SPDT	On	Off	On	Silver
2-1437576-4	MHS133RA	SP3T	On	On	On	Silver
1-1437576-1	MHS122GRA	SPDT	On	None	On	Gold
1-1437576-6	MHS123GRA	SPDT	On	Off	On	Gold
2-1437576-1	MHS133GRA	SP3T	On	On	On	Gold

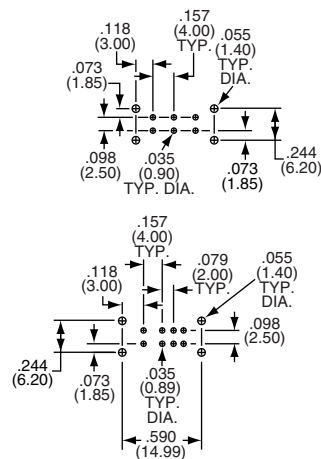
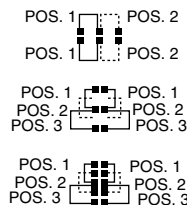
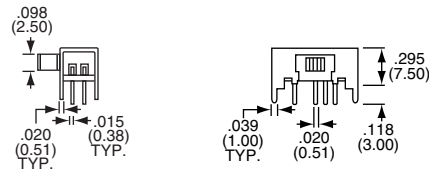
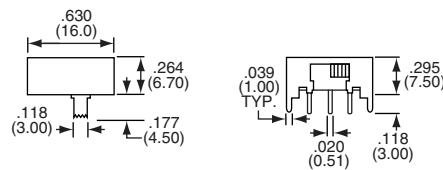
DPDT/DP3T



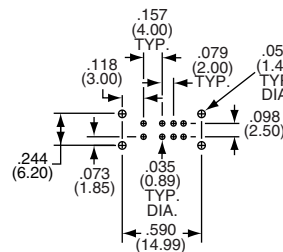
MHS222RA



MHS233GRA



MHS222/223



MHS233

Tyco Electronics	Alcoswitch	Type				Contacts
3-1437576-0	MHS222RA	DPDT	On	None	On	Silver
3-1437576-5	MHS223RA	DPDT	On	Off	On	Silver
4-1437576-1	MHS233RA	DP3T	On	On	On	Silver
2-1437576-7	MHS222GRA	DPDT	On	None	On	Gold
3-1437576-3	MHS223GRA	DPDT	On	Off	On	Gold
3-1437576-8	MHS233GRA	DP3T	On	On	On	Gold

## Slide Switches, Micro Size, Instrumentation Grade

### MATERIAL SPECIFICATIONS:

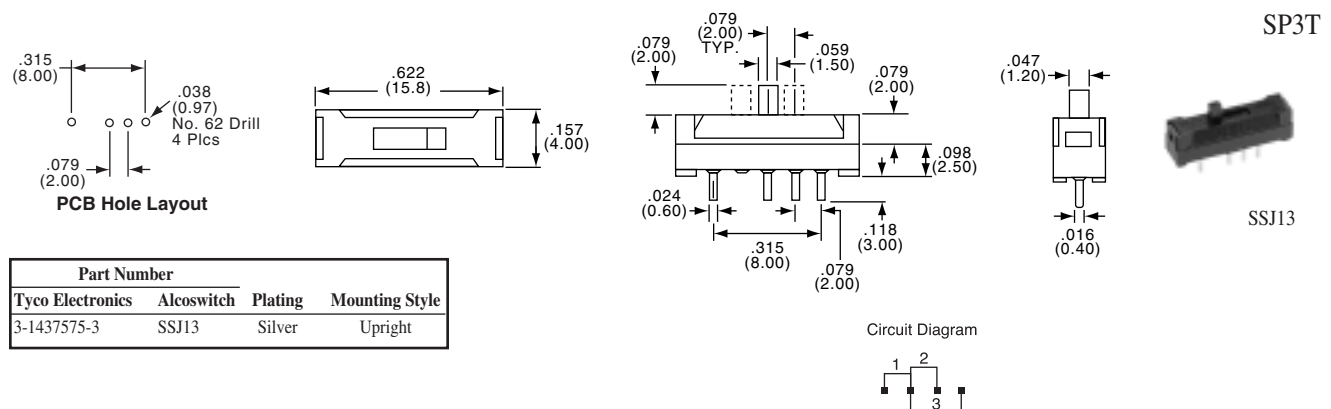
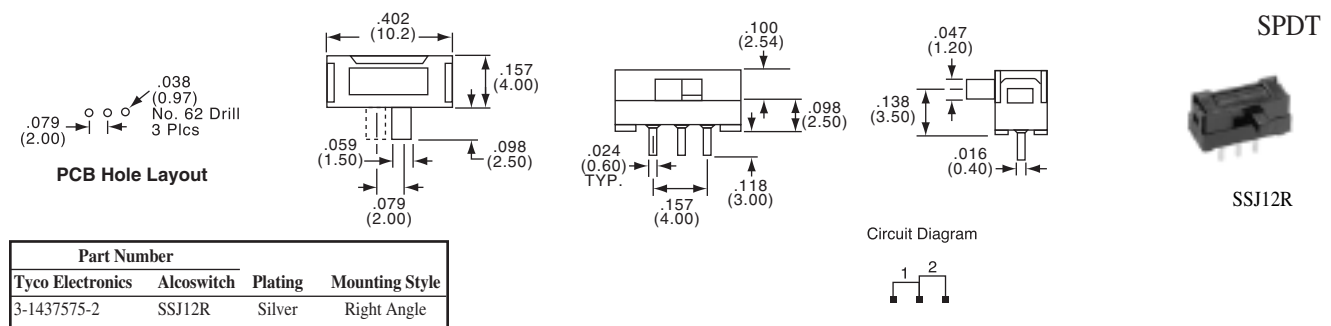
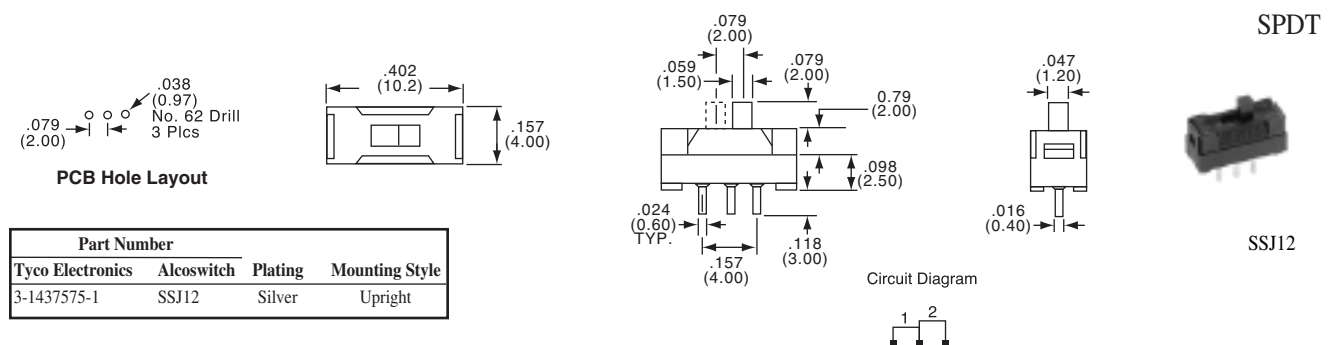
Contacts .....Silver clad plate over copper alloy  
Cover Base Material .....Polyester  
Actuator Material .....Polyacetal  
Terminals .....Silver over nickel plate over copper alloy  
Terminal Seal .....Molded in

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)  
Storage Temperature.....-4°F to +140°F (-20°C to +60°C)  
Solder Heat Resistance .....270°C+10°C, 5 seconds per MIL-STD-202, Method 210

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....100 Milliamps @ 12 VDC  
Initial Contact Resistance .....20 Milliohms max.  
Contact Timing .....Make before break  
Insulation Resistance .....100 Megohms min.  
Dielectric Strength .....500 Volts RMS @ sea level  
Actuation Force .....250 Grams, (+200g, -150g)  
Actuator Travel.....0.079" (2.01)  
Life Expectancy .....Up to 10,000 Cycles



## Slide Switches, Micro Size, Instrumentation Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel over copper alloy  
Case Material .....Polyacetal UL94HB  
Actuator Material .....Polyester UL94HB  
Terminals .....Silver over nickel over copper alloy  
Terminal Seal .....Epoxy  
Terminal Board.....UL 94 V-O

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)  
Storage Temperature.....+14°F to +140°F (-10°C to +60°C)  
Solder Heat Resistance .....230 ± 150 grams ± 5°C for 3 seconds per MIL-STD-202, Method 210

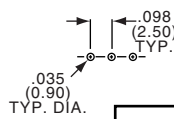
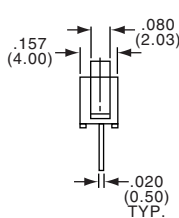
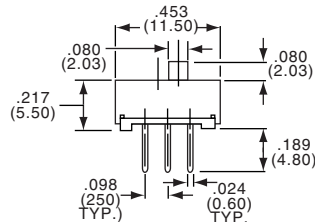
### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....100 mA @ 30 VDC or peak AC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing .....Make before break  
Insulation Resistance .....100 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....200 ± 150 Grams  
Life Expectancy .....Up to 10,000 Cycles

### SPDT



MMS12



Circuit Diagram

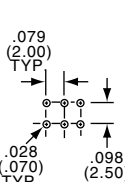
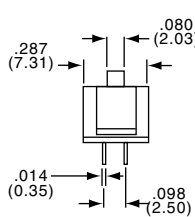
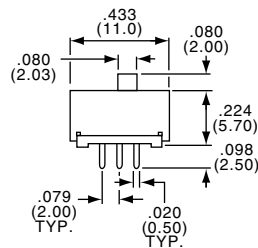


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-4	MMS12	SPDT	Silver	Upright

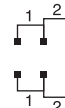
### DPDT



MMS22



Circuit Diagram

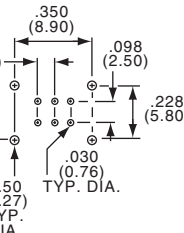
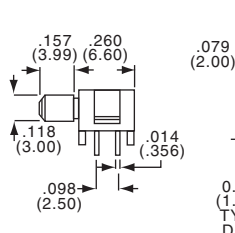
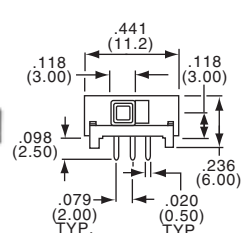


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-5	MMS22	DPDT	Silver	Upright

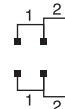
### DPDT



MMS22R



Circuit Diagram

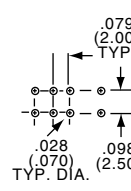
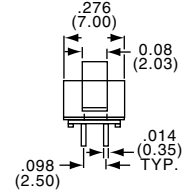
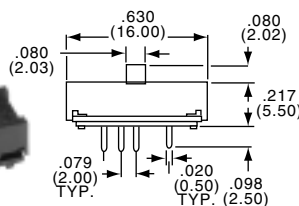


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-6	MMS22R	DPDT	Silver	Right Angle

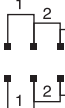
### DP3T



MMS23



Circuit Diagram

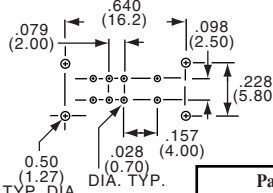
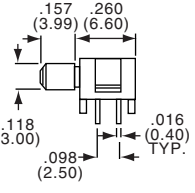
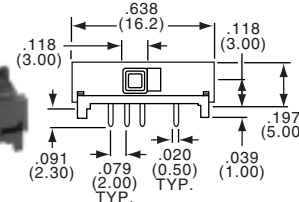


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-8	MMS23	DP3T	Silver	Upright

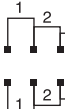
### DP3T



MMS23R



Circuit Diagram

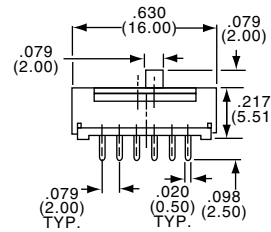
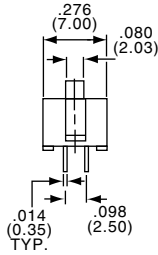
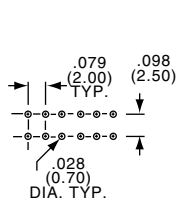
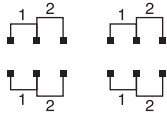


Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1437575-9	MMS23R	DP3T	Silver	Right Angle

**Slide Switches, Micro Size, Instrumentation Grade**

SEE PAGE B36 FOR PRODUCT SPECIFICATIONS

Circuit Diagram



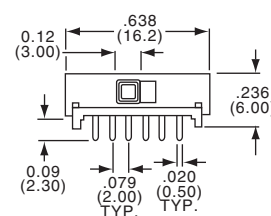
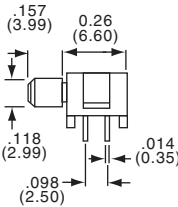
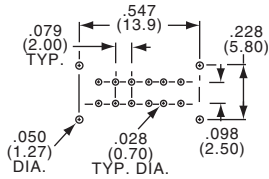
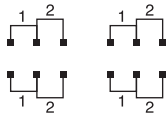
4PDT



MMS42

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-0	MMS42	4PDT	Silver	Upright

Circuit Diagram



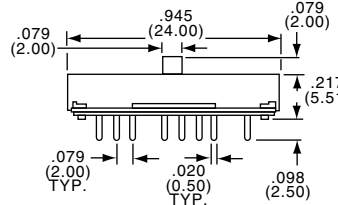
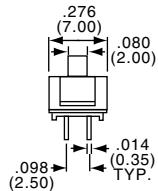
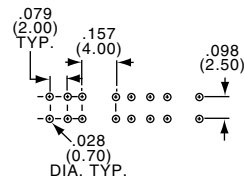
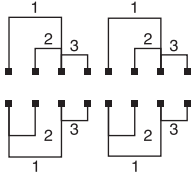
4PDT



MMS42R

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-1	MMS42R	4PDT	Silver	Right Angle

Circuit Diagram



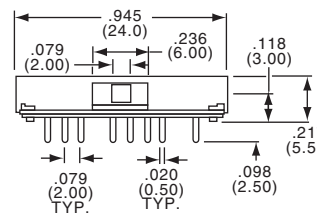
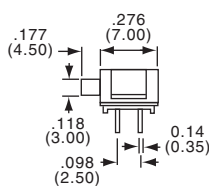
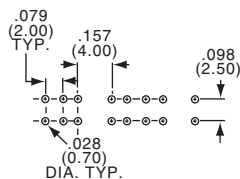
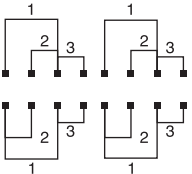
4P3T



MMS43

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-2	MMS43	4P3T	Silver	Upright

Circuit Diagram



4P3T



MMS43R

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-3	MMS43R	4P3T	Silver	Right Angle

## Slide Switches, Micro Size, Instrumentation Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Gold or silver plate over nickel plate  
Case Material .....Steel, tin plate  
Actuator Material .....Polyacetal UL94HB  
Terminals .....Gold or silver plate over nickel plate  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)  
Solder Heat Resistance.....+260°C (+500°F) for 5 seconds  
per MIL-STD-202, Method 210

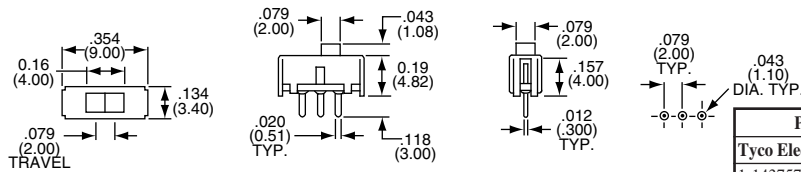
### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA @ 20 VDC or peak AC  
Silver: 100 mA @ 30 VDC  
Initial Contact Resistance.....30 Milliohms max.  
Contact Timing.....Make before break  
Insulation Resistance .....100 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....250 ± 150 Grams  
Life Expectancy .....Up to 10,000 Cycles  
Travel .....0.079" (2.01)

#### SPDT



SSB12



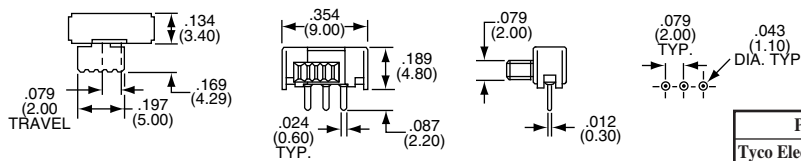
Circuit Diagram

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
1-1437575-8	SSB12	SPDT	Silver	Upright
1-1437575-9	SSB12G	SPDT	Gold	Upright

#### SPDT



SSB12R



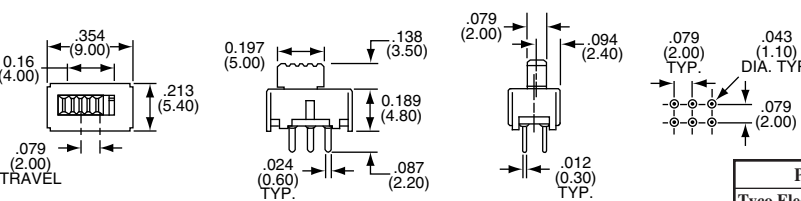
Circuit Diagram

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-0	SSB12R	SPDT	Silver	Right Angle
2-1437575-1	SSB12RG	SPDT	Gold	Right Angle

#### DPDT



SSB22



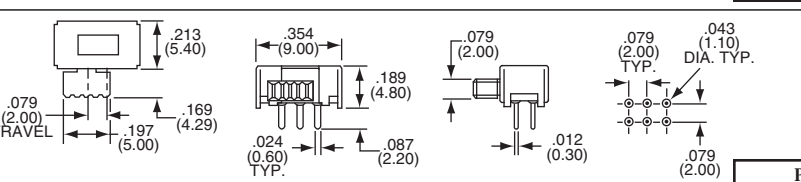
Circuit Diagram

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-2	SSB22	DPDT	Silver	Upright
2-1437575-3	SSB22G	DPDT	Gold	Upright

#### DPDT



SSB22R



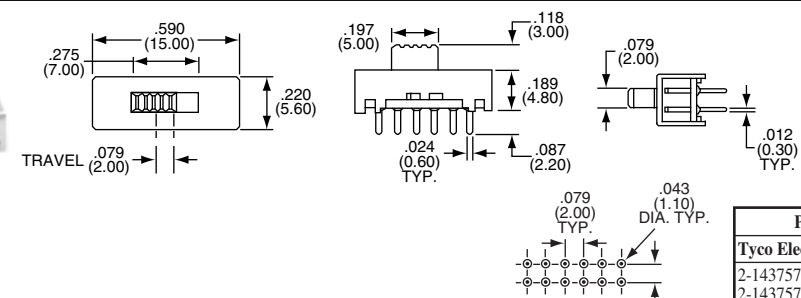
Circuit Diagram

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-4	SSB22R	DPDT	Silver	Right Angle
2-1437575-5	SSB22RG	DPDT	Gold	Right Angle

#### 4PDT



SSB42



Circuit Diagram

Part Number				
Tyco Electronics	Alcoswitch	Type	Plating	Mounting Style
2-1437575-8	SSB42	4PDT	Silver	Upright
2-1437575-9	SSB42G	4PDT	Gold	Upright

## Slide Switches, Micro Size, Instrumentation Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Silver or gold plate  
Case Material .....Polyester PPS UL94VO  
Actuator Material .....Polyamide UL94HB  
Cover Material .....Polyamide UL94HB  
Terminals .....Silver or gold plate  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)  
Storage Temperature.....-40°F to +194°F (-40°C to +90°C)  
Solder Heat Resistance .....260°C (+500°F) for 5 seconds  
per MIL-STD-202, Method 210

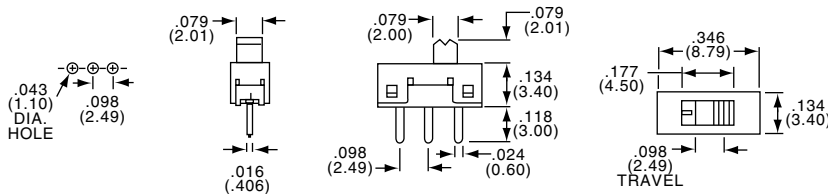
### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....Gold: 0.4 VA max. @ 20 VDC or peak AC  
Silver: 100 Milliamps @ 30 VDC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing .....Break-Before-Make  
Insulation Resistance .....100 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....250 ± 100 Grams  
Actuator Travel.....0.098" (2.49)  
Life Expectancy .....Up to 10,000 Cycles

**B**

**SSA Series**

### SPDT



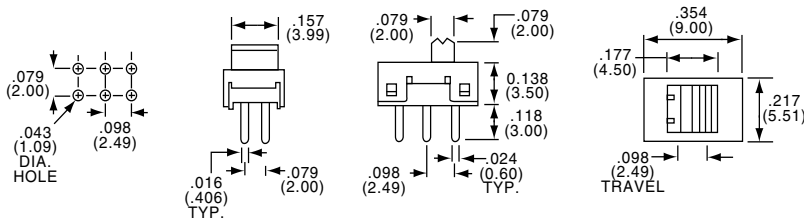
SSA12

Circuit Diagram



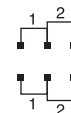
Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
1-1437575-4	SSA12	Silver	Upright
1-1437575-5	SSA12G	Gold	Upright

### DPDT



SSA22

Circuit Diagram



Part Number			
Tyco Electronics	Alcoswitch	Plating	Mounting Style
1-1437575-6	SSA22	Silver	Upright
1-1437575-7	SSA22G	Gold	Upright



## Slide Switches, PC Tails, Wiping Contact, Consumer Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Silver plate over copper alloy  
Case Material .....Steel  
Actuator Material .....Polycarbonate  
Terminals/Fixed Contacts.....Silver plate over copper alloy  
Terminal Seal .....Epoxy


### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +140°F (-10°C to +60°C)  
Storage Temperature.....14°F to +140°F (-10°C to +60°C)


### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....250 mA @ 125 VAC, 150 mA @ 12 VDC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing .....Break before make  
Insulation Resistance .....500 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....100-300 Grams  
Actuator Travel.....0.126" (3.20)  
Life Expectancy .....Up to 10,000 Cycles

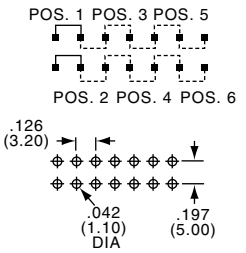
### 2 TO 6 POSITIONS



SLS250PC      SLS220PC

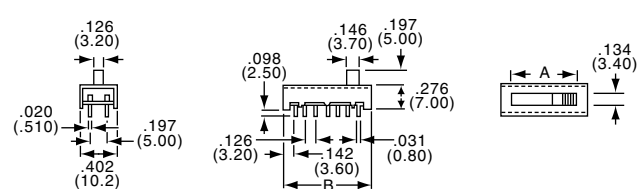


SLS240PCA      SLS230PC



POS. 1 POS. 3 POS. 5  
POS. 2 POS. 4 POS. 6

.126 (3.20) .042 (1.10) DIA .197 (5.00)




.126 (3.20) .197 (5.00) .146 (3.70) .197 (5.00) .098 (2.50) .276 (7.00) .134 (3.40) .031 (0.80) .142 (3.60) .402 (10.2) .020 (.510)

Part Number		Type	Dim.A	Dim.B
Tyco Electronics	Alcoswitch			
3-1437577-9	SLS220PC	2 Positions	.272(6.91)	.535(13.59)
4-1437577-1	SLS230PC	3 Positions	.398(10.11)	.661(16.79)
4-1437577-3	SLS240PCA	4 Positions	.524(13.31)	.787(19.99)
4-1437577-5	SLS250PC	5 Positions	.650(16.51)	.913(23.19)
4-1437577-7	SLS260PC	6 Positions	.776(19.71)	1.039(26.39)


### SL Series

## Slide Switches, PC Tails, Lever or Knob Actuator


### 2 TO 10 POSITIONS



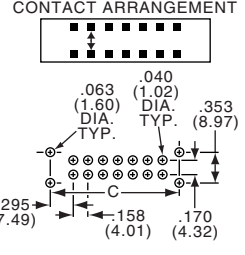
SL660  
(with KSS KNOB)



SL550

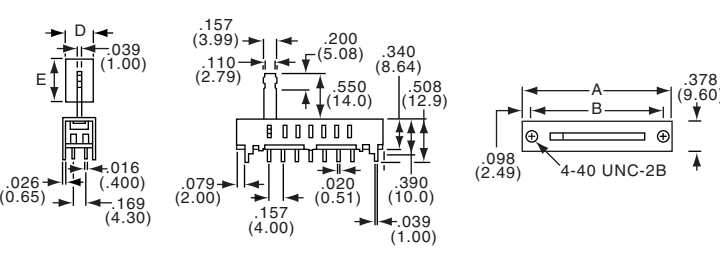


SL770



CONTACT ARRANGEMENT

.063 (1.60) DIA. TYP. .040 (1.02) DIA. TYP. .353 (8.97) .295 (7.49) .158 (4.01) .170 (4.32)



.157 (3.99) .200 (5.08) .340 (8.64) .508 (12.9) .110 (2.79) .550 (14.0) .390 (10.0) .079 (2.00) .157 (4.00) .026 (0.65) .016 (.400) .169 (4.30) .039 (1.00) .020 (0.51) .039 (1.00) .098 (2.49) .378 (9.60) 4-40 UNC-2B

Part Number		Type	Dim. A	Dim. B	Dim. C	Knob Only	Description	Dim. D	Dim. E
Tyco Electronics	Alcoswitch								
1437577-9	SL220	2 Positions	.95(24.13)	.750(19.05)	.750(19.05)	KSS10A	Aluminum-Clear Anodize	.270(6.86)	.500(12.70)
1-1437577-0	SL330	3 Positions	1.11(28.19)	.910(23.1)	.910(23.1)	KSS10B	Aluminum-Black Anodize	.270(6.86)	.500(12.70)
1-1437577-1	SL550	5 Positions	1.42(36.07)	1.22(30.99)	1.22(31.1)	KSS20A	Aluminum-Clear Anodize	.305(7.75)	.512(13.00)
1-1437577-2	SL660	6 Positions	1.58(40.13)	1.38(35.05)	1.38(35.1)	KSS20B	Aluminum-Black Anodize	.305(7.75)	.512(13.00)
1-1437577-3	SL770	7 Positions	1.74(44.20)	1.54(39.12)	1.54(39.1)				
1-1437577-4	SL880	8 Positions	1.89(48.01)	1.70(43.18)	1.70(43.1)				
1437577-8	SL1000	10 Positions	2.21(56.13)	2.01(51.05)	2.01(51.5)				



## Slide Switches, Panel Mount, Wiping Contact, Consumer Grade

### MATERIAL SPECIFICATIONS:

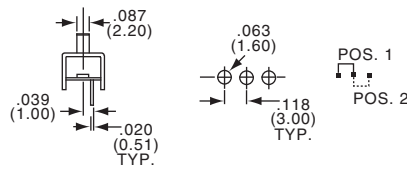
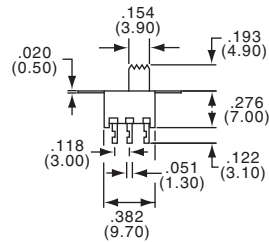
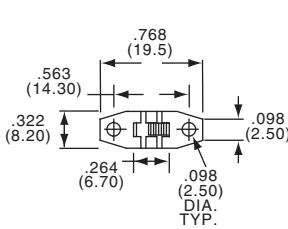
Contacts .....Silver over nickel plate copper alloy  
Case Material .....Steel-zinc plated  
Actuator Material .....PBT 30% glass  
Terminals/Fixed Contacts.....Silver over nickel plate copper alloy  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)  
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)  
Solder Heat Resistance .....+300°C (+572°F) for 5 seconds

### TYPICAL PERFORMANCE CHARACTERISTICS:

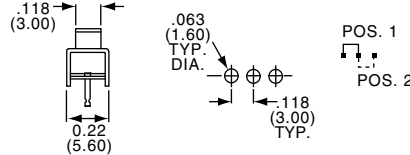
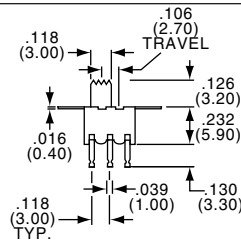
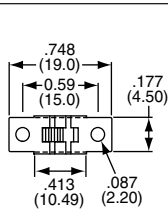
Contact Rating .....500 mA @ 125 VAC, 200 mA @ 12 VDC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing .....Break-Before-Make  
Insulation Resistance .....500 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....SLS: 100-300 Grams; SLSA: 220, 300 -500 Grams  
Plunger/Actuator Travel: .....0.106" (2.69)  
Life Expectancy .....Up to 10,000 Cycles



SPDT

SLS120

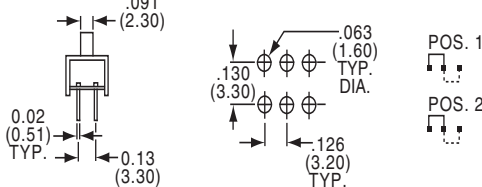
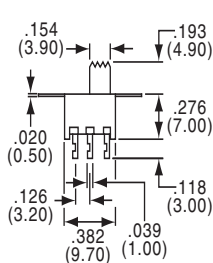
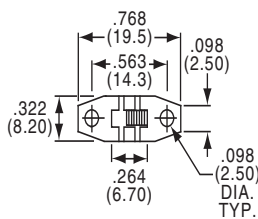
Part Number					
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals	Contacts
1-1437577-5	SLS120	SPDT	Panel	Lug	



SPDT

SLA120

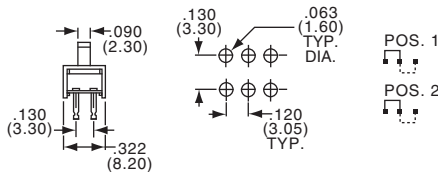
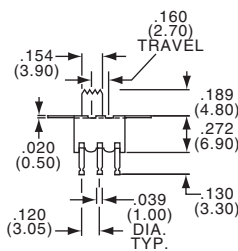
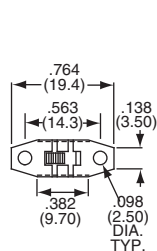
Part Number					
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals	Contacts
5-1437577-3	SLA120	SPDT	Panel	Turret	



DPDT

SLS220

Part Number					
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals	Contacts
3-1437577-7	SLS220	DPDT	Panel	Lug	



DPDT

SLA220

Part Number					
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals	Contacts
5-1437577-5	SLA220	DPDT	Panel	Turret	

## Slide Switches, Wiping Contacts, Consumer Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy-silver/nickel  
Case Material .....Steel-zinc plate  
Actuator Material .....PBT 30% Glass  
Terminals/Fixed Contacts.....Copper, alloy, silver/nickel plate  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)  
Storage Temperature.....-40°F to +212°F (-40°C to +100°C)  
Solder Heat Resistance .....+300°C (+572°F) for 5 seconds

### TYPICAL PERFORMANCE CHARACTERISTICS:

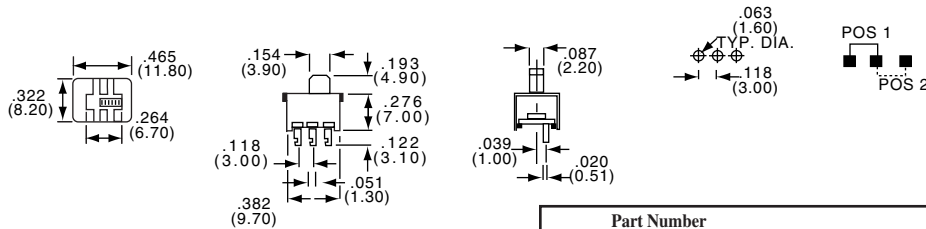
Contact Rating .....500 mA @ 125 VAC, 200 mA @ 12 VDC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing.....Break before make  
Insulation Resistance .....500 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....350±150 Grams  
Plunger/Actuator Travel: .....0.106 (2.69)  
Life Expectancy .....Up to 10,000 Cycles

### SPDT



Lug

SLS1201



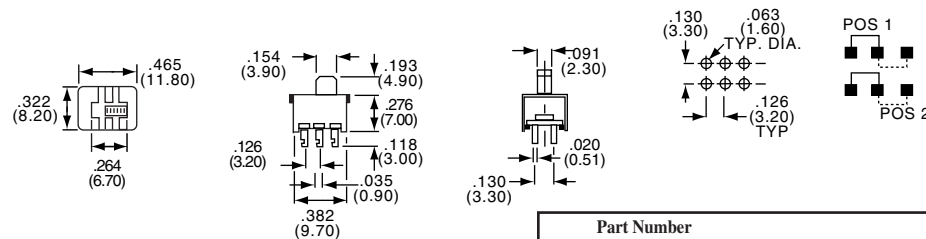
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
1-1437577-6	SLS1201	SPDT	PC	Lug

### DPDT



Lug

SLS2201



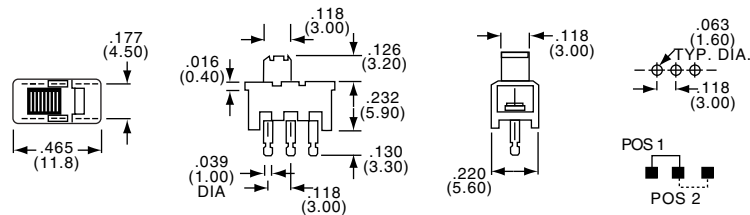
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
3-1437577-8	SLS2201	DPDT	PC	Lug

### SPDT



Turret

SLSA1201



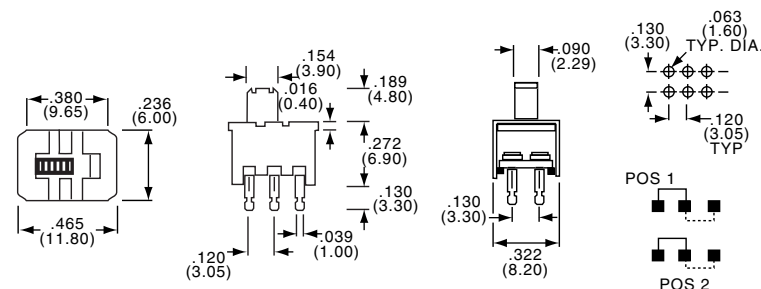
Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-4	SLSA1201	SPDT	PC	Turret

### DPDT



Turret

SLSA2201



Part Number				
Tyco Electronics	Alcoswitch	Type	Mounting	Terminals Contacts
5-1437577-6	SLSA2201	DPDT	PC	Turret

## Slide Switches, Miniature, Rolling Contact, Economy Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel plate over copper alloy  
Case Material .....Tin plate over steel  
Actuator Material .....Polycarbonate  
Terminals/Fixed Contacts.....Silver over nickel plate over copper alloy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +185°F (-10°C to +85°C)  
Storage Temperature.....14°F to +185°F (-10°C to +85°C)

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....250 mA @ 125 VAC, 150 mA @ 12 VDC  
Initial Contact Resistance .....30 Milliohms max.  
Contact Timing .....Break before make  
Insulation Resistance .....500 Megohms min.  
Dielectric Strength .....500 VAC  
Actuation Force .....340 ± 57 Grams  
Actuator Travel.....0.126" (3.20)  
Life Expectancy .....Up to 6,000 to 10,000 Cycles

SPDT

Part Number

Tyco Electronics	Alcoswitch	Mounting Style
1-1437577-9	SLS121PC	Printed Circuit

SLS121PC

SPDT

Part Number

Tyco Electronics	Alcoswitch	Mounting Style
2-1437577-2	SLS121RA	Right Angle PC

SLS121RA

SPDT

Part Number

Tyco Electronics	Alcoswitch	Mounting Style
1-1437577-8	SLS1211	Printed Circuit

SLS1211

SPDT

Part Number

Tyco Electronics	Alcoswitch	Mounting Style
1-1437577-7	SLS121	Panel Mounted

SLS121

## Slide Switches, Miniature, Rolling Contact, Economy Grade

### MATERIAL SPECIFICATIONS:

Contacts .....Silver over nickel flash over copper alloy  
Case Material .....Steel  
Actuator Material .....Polycarbonate  
Terminals/Fixed Contacts.....Silver over nickel over copper alloy

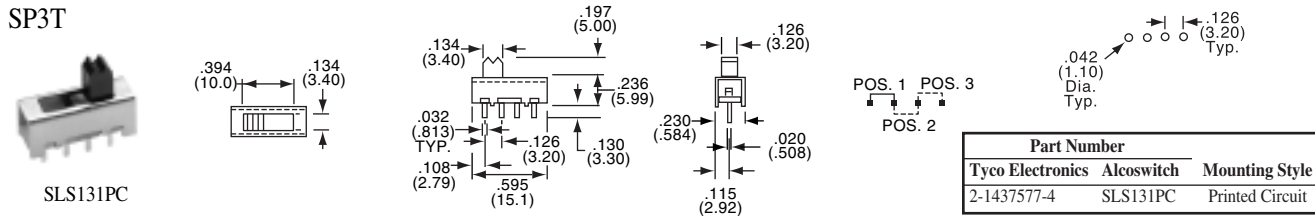
### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +185°F (-10°C to +85°C)  
Storage Temperature.....+14°F to +185°F (-10°C to +85°C)  
Solder Heat Resistance.....+260°C for 5 seconds

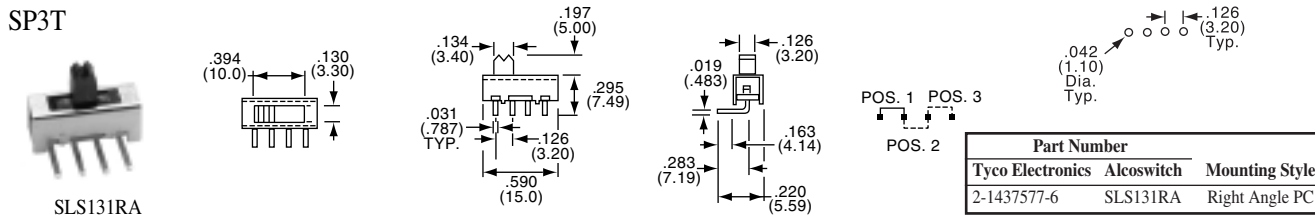
### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....250mA @ 125 VAC  
150mA @ 12VDC  
Initial Contact Resistance .....20 Milliohms max.  
Contact Timing .....Break-Before-Make  
Insulation Resistance .....>50 Megohms.  
Dielectric Strength .....500 Volts RMS @ sea level  
Actuation Force .....340 ± 57 Grams  
Plunger/Actuator Travel: .....0.260" to 0.512" (6.60-13.00)  
Life Expectancy .....Up to 10,000 Cycles at no load

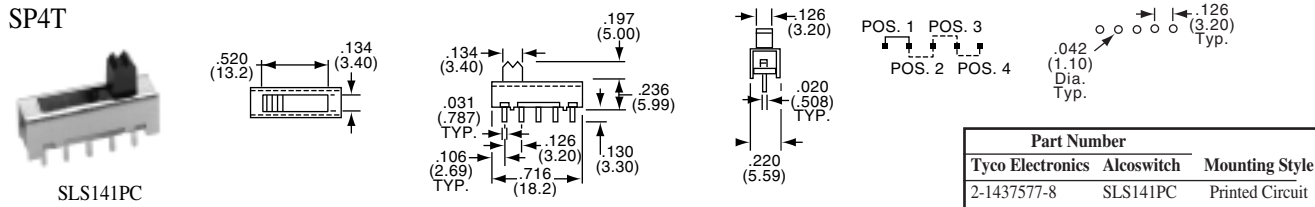
#### SP3T



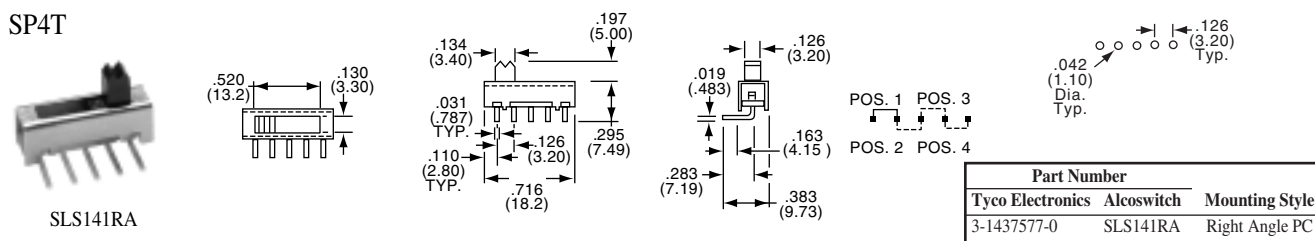
#### SP3T



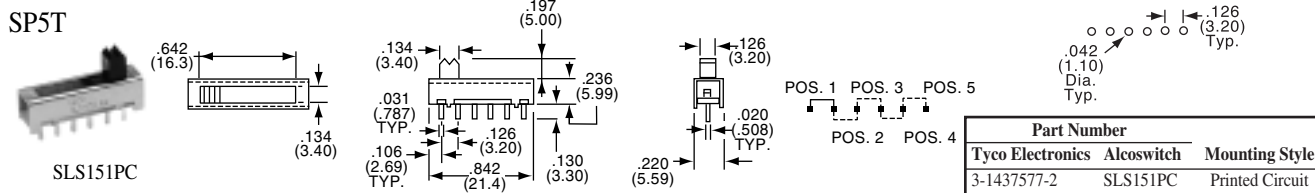
#### SP4T



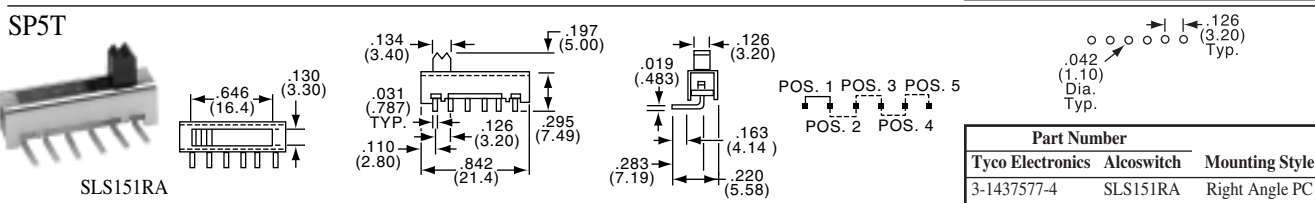
#### SP4T



#### SP5T



#### SP5T



## Slide Switches, Baton-Toggle, Multi Pole

### MATERIAL SPECIFICATIONS:

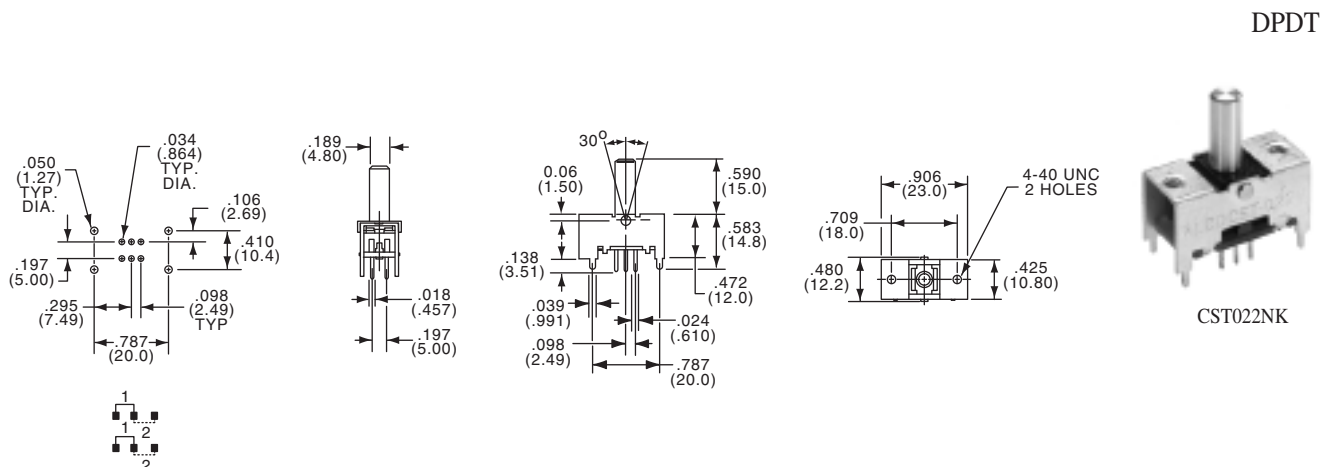
Contacts .....Silver clad over nickel plated copper alloy  
Case Material .....Steel, tin plate  
Actuator Material .....ABS plastic/Aluminum cap  
Terminals/Fixed Contacts.....Silver over nickel plated copper alloy  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

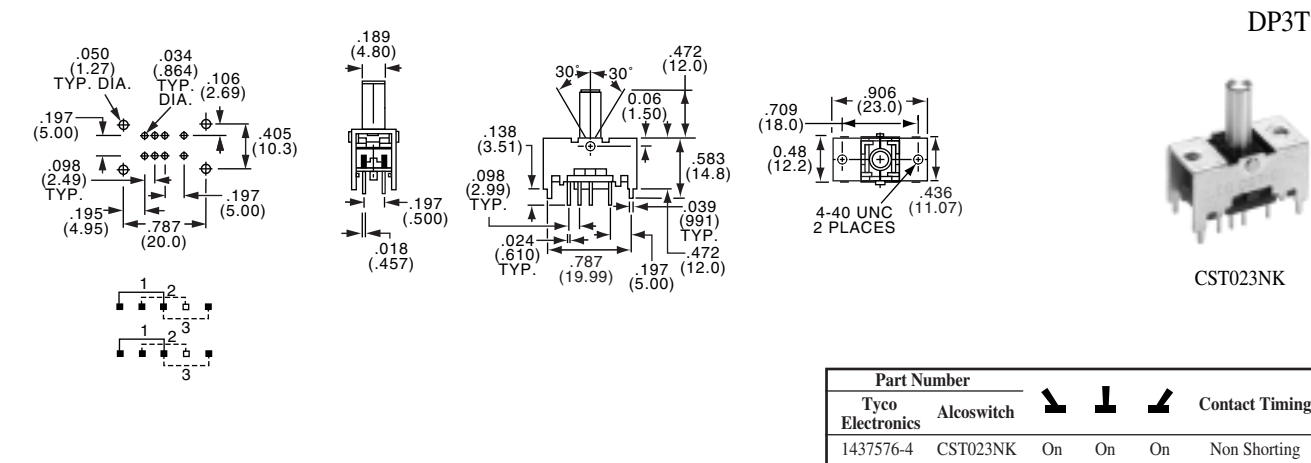
Operating Temperature.....+5°F to +131°F (-15°C to +55°C)  
Storage Temperature.....-4°F to +140°F (-20°C to +60°C)  
Solder Heat Resistance.....Hand: 300°C for 3 seconds  
Wave: 250°C for 5 seconds

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....300 mA @ 125 VAC, 200 mA @ 12VDC  
Initial Contact Resistance .....20 Milliohms max.  
Contact Timing .....See table below  
Insulation Resistance .....500 Megohms min.  
Dielectric Strength .....500 Volts RMS @ sea level  
Actuation Force .....450 ± 250 Grams  
Plunger/Actuator Travel .....30°  
Life Expectancy .....Up to 10,000 Cycles



Part Number					Contact Timing
Tyco Electronics	Alcoswitch				
1437576-2	CST022NK	None	On	On	Non Shorting - Break-Before-Make (On) indicates momentary position.



Part Number					Contact Timing
Tyco Electronics	Alcoswitch				
1437576-4	CST023NK	On	On	On	Non Shorting

## Slide Switches, Baton-Toggle, Multi Pole

SEE PAGE B45 FOR PRODUCT SPECIFICATIONS

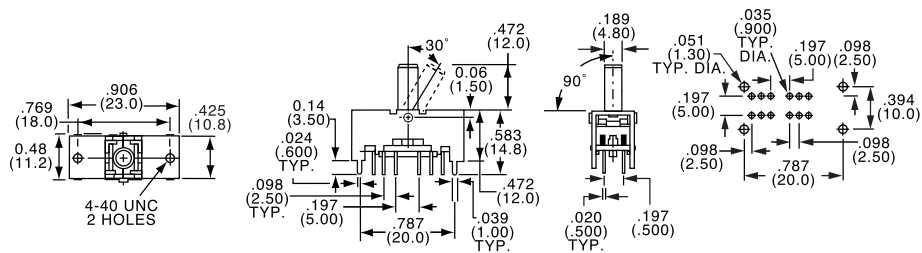
# B

## CST Series

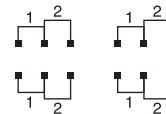
4PDT






CST042NK



### Circuit Diagram

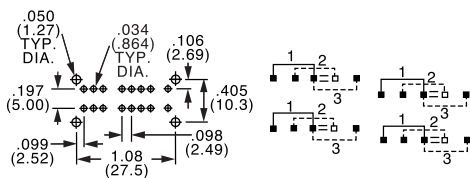
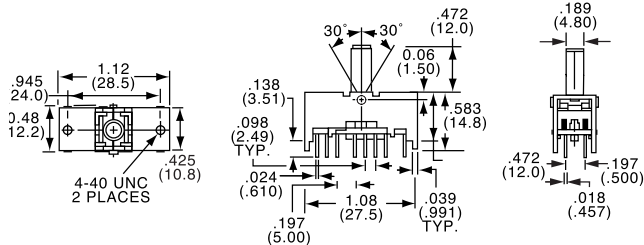


Part Number					Contact Timing
Tyco Electronics	Alcoswitch				
1437576-5	CST042NK	None	On	On	Non Shorting

4P3T



CST043NK

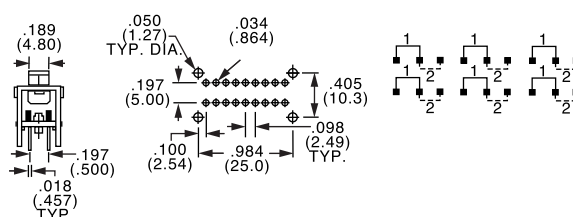
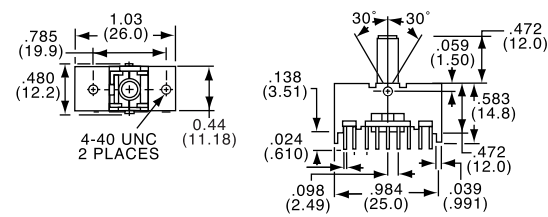





Part Number					Contact Timing
Tyco Electronics	Alcoswitch				
1437576-6	CST043NK	On	On	On	Non Shorting

6PDT



CST062NK



Part Number					
Tyco Electronics	Alcoswitch				Contact Timing
1437576-7	CST062NK	None	On	On	Non Shorting



## Slide Switches, Miniature, Right Angle, Surface Mount

### MATERIAL SPECIFICATIONS:

Contacts .....BeCu, copper alloy, 1 micron silver plate  
Case Material .....40% G.F. PPS, UL94V-0  
Frame .....Stainless steel, silver plated  
Actuator Material .....Nylon, UL94HB polyamide  
Terminals .....Brass, copper alloy, 1 micron silver plate  
Terminal Seal.....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Humidity .....MIL-STD-202, Method 103, Condition B  
Moisture Resistance .....MIL-STD-202, Method 106  
Thermal Shock .....MIL-STD-202, Method 107, Condition A  
Solder Heat Resistance ...230°C per EIA 364-56 Level 2

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....0.3 Amp, 4 VDC  
Initial Contact Resistance .....70 Milliohms  
Insulation Resistance .....100 Megohms min.  
Dielectric Strength .....100 VAC min.  
Actuation Force .....175 ±100 Grams  
Life Expectancy .....Up to 10,000 Cycles  
Travel .....0.059 (1.5mm)

