The August/Alcoswitch "E" version of the DR series rotary Dip switch is a process sealed switch. With an actuator "O" ring seal, this switch withstands the stringent 60°C, one minute immersion

"Bubble" Test. Compliance with the "Bubble" test assures you of the compatibility of DRD "E" Series with the harshest of soldering and cleaning processes.

MATERIAL SPECIFICATIONS:

Contacts	Gold flashed copper alloy
Terminals	Tin lead plated brass
Base, Rotor, Case	Glass filled PBT resin
Movable Contact	Gold flashed copper alloy
Ball Support Plate	Copper alloy
Detent Spring	Stainless steel (spring)

ENVIRONMENTAL SPECIFICATIONS:
Operating Temperature22°F to +185°F (-30°C to +85°C)
Storage Temperature49°F to 212°F (-45°C to +100°C)
Vibration ResistanceSubjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
Shock ResistanceWill withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
Salt Spray TestWithstands an atmosphere of 5% salt water at temperature of 50°C
Hydrogen Sulfide TestWithstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
Atmospheric TestWithstands an atmosphere of 30-50 PPM sulfite gas at a temperature of 40°C for 240 hours
Solder Heat ResistanceWithstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210
Bubble TestWithstands submersion in 60°C Flouriert for 1 min. without leakage

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
Initial Contact Resistance50 Milliohms max. @ 2 VDC
Insulation Resistance1,000 Megohms min. @100 VDC
Dielectric Strength300 VAC RMS @ sea level
Actuation Strength (DRM)5.0 Lbs. max. lateral force
Operating Force6 Ozin. nom.
SMT Operating Force Ozin. nom.
Life Expectancy10 Pos: 2,000





DRD10E

DRD16CE

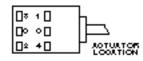
Note: Common terminals are connected internally, except on hybrid versions.

TRUTH TABLES

Terminal Identification (view from bottom of the switch)



VIEW PROMISOTTOM OF THE OWITOH



FOR HYBRID YERGIONG, COMMON BETWEEN TERMINALG 1 AND 416 REGISTOR OF DIODE COMMON. NOTE: COMMON TERMINALG ARE CONNECTED INTERNALLY, EXCEPT ON HYBRID YERGIONG.

10-P	10-Position, BCD (red actuator)												
Pos.	0	1	2	3	4	5	6	7	8	9			
C	X	X	X	X	X	X	X	X	X	X			
1	X		X		X		X		X				
2		X	X			X	X						
4				X	X	X	X						
8								X	X				

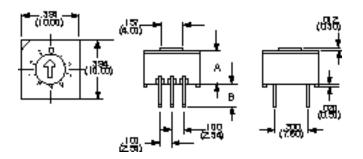
10-P	10-Position, BCD Complement (orange actuator)													
Pos.	0	1	2	3	4	5	6	7	8	9				
Ē	X	X	X	X	X	X	X	X	X	X				
1	X		X		X		X		X					
2	X	X			X	X			X	X				
4	X	X	X	X					X	X				
8	X	X	X	X	X	X	X	X						

16-P	16-Position, Hexadecimal (black actuator)															
Pos.	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
С	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X		X		X		X
2			X	X			X	X			X	X			X	X
4					X	X	X	X					X	X	X	X
8									X	X	X	X	X	X	X	X

16-P	16-Position Hexadecimal Complement (white actuator)															
Pos.	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
Ē	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X		X		X		X		X		X		X		X	
2	X	X			X	X			X	X			X	X		
4	X	X	X	X					X	X	X	X				
8	X	X	X	X	X	X	X	X								

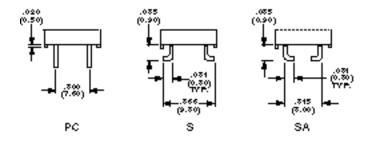
DRD "E" "Sealed Dip Rotary" Switch Thru-Hole and Surface Mount

"D" FLUSH ACTUATOR

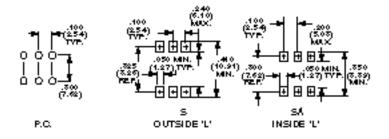


Dim.	DR
A	.236 (6.00)
В	.146 (3.70)

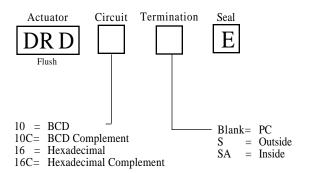
SURFACE MOUNT TERMINATIONS - PC



PAD LAYOUTS



HOW TO ORDER





Rotary Dip Switches Thru-Hole and Surface Mount

DR, RR & RA/C Series

MATERIAL SPECIFICATIONS:

Contact/Terminals.....Gold flashed copper alloy Base, Rotor, Case.....Polyester

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating	0.4 VA @ 20 VDC
Initial Contact Resistance	50 Milliohms max. @ 2 VDC
Insulation Resistance	1,000 Megohms min. @ 100 VDC
Dielectric Strength	300 VAC RMS @ sea level

ENVIRONMENTAL SPECIFICATIONS:

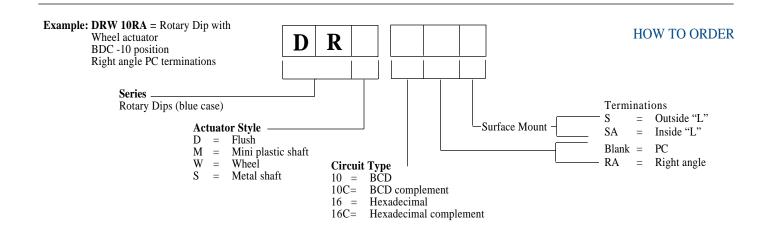
Operating Temperature22°F to +185°F (-30°C to +85°C) Storage Temperature49°F to +212°F (-45°C to +100°C)
Vibration ResistanceSubjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
Shock ResistanceWill withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
Salt Spray TestWithstands an atmosphere of 5% salt water at temperature of 50°C
Hydrogen Sulfide TestWithstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
Atmosphere TestWithstands an atmosphere of 30-50 PPM sulfide gas at a temperature of 40°C for 240 hours
Solder Heat ResistanceWithstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210

Rotary Dip Switches DR Series

FEATURES:

- Available in PC and surface mount configurations.
- High pressure contacts (140K PSI) provide 10 pos: 2,000/16 pos: 1,250 rotation life.
- Unique design utilizes high pressure pin-point sliding contacts to penetrate contaminants on contact surface.
- Terminals insert molded into base.
- Screwdriver, knob and shaft (plastic and steel) type actuators available in both upright and right angle versions.
- 10 And 16 position versions with both real and complement codes.

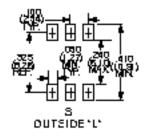
Note: Common terminals connected internally.

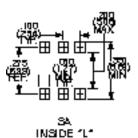


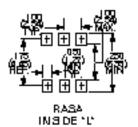
See pages M2-M4 for application specific indexing.

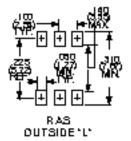
DR, RR & RA/C Series Rotary Dip Switches

PAD LAYOUTS

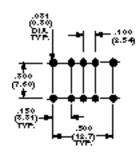


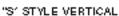


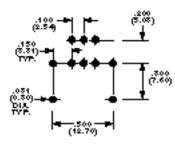




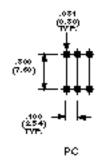
FOOTPRINTS







"S" STYLE RA

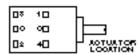




TRUTH TABLES

Terminal Identification (view from bottom of the switch)





FOR HYBRID VERSIONS, COMMON BETWEEN TERMINALS LAND 4 IS RESISTOR OF DIODE COMMON.

10-Pe	10-Position, BCD (red actuator)													
Pos.	0	1	2	3	4	5	6	7	8	9				
C	X	X	X	X	X	X	X	X	X	X				
1	X		X		X		X		X					
2		X	X			X	X							
4				X	X	X	X							
8								X	X					

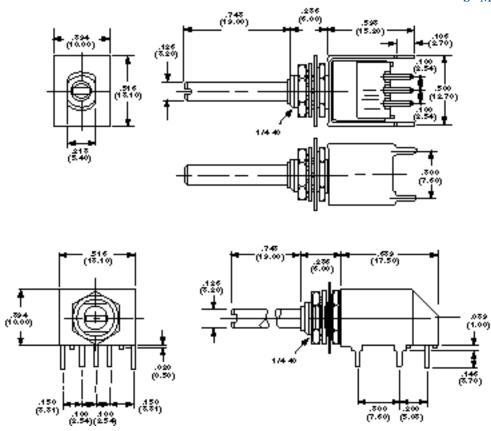
10-P	10-Position, BCD Complement (orange actuator)													
Pos.	0	1	2	3	4	5	6	7	8	9				
Ē	X	X	X	X	X	X	X	X	X	X				
1	X		X		X		X		X					
2	X	X			X	X			X	X				
4	X	X	X	X					X	X				
8	v	v	v	v	v	v	v	v						

16-Pc	16-Position, Hexadecimal (black actuator)															
Pos.	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
С	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1		X		X		X		X		X		X		X		X
2			X	X			X	X			X	X			X	X
4					X	X	X	X					X	X	X	X
8									X	X	X	X	X	X	X	X

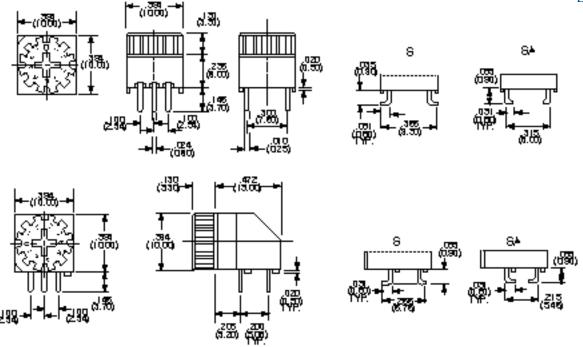
16-Position Hexadecimal Complement (white actuator)																
Pos.	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
Ē	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X		X		X		X		X		X		X		X	
2	X	X			X	X			X	X			X	X		
4	X	X	X	X					X	X	X	X				
8	X	X	X	X	X	X	X	X								



"S" METAL SHAFT ACTUATOR

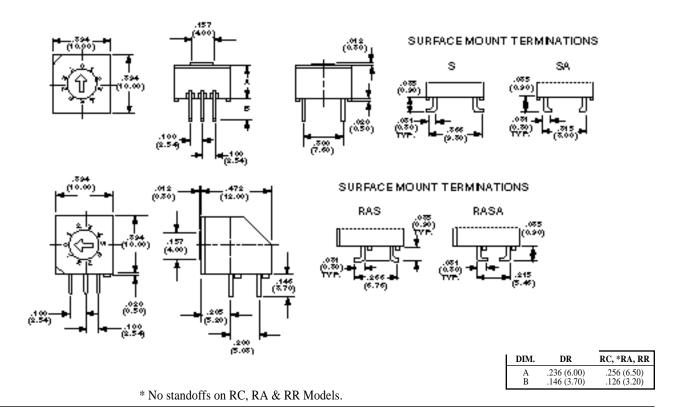


"W" WHFFL ACTUATOR

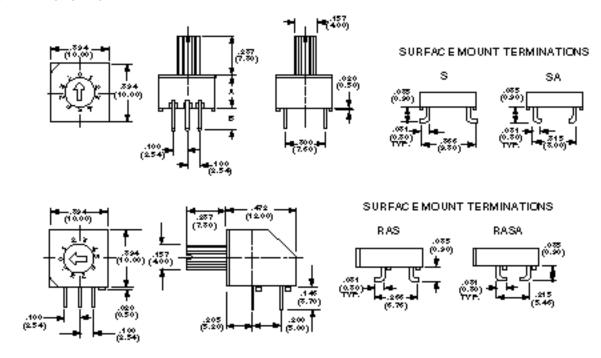


DR, RR & RA/C Series Rotary Dip Switches

"D" FLUSH ACTUATOR



"M" MINI-SHAFT ACTUATOR



* No standoffs on RC, RA & RR Models.

DR	RC, *RA, RR
.236 (6.00) .146 (3.70)	.256 (6.50) .126 (3.20)
	DR

