

**Rotary Dip Switches, Process Sealed, Through Hole and Surface Mount**

**MATERIAL SPECIFICATIONS:**

- Contacts .....Gold flashed copper alloy
- Terminals .....Tin lead plated brass
- Base, Rotor, Case .....PC, Glass filled PBT resin (blue case)  
SMT, Polyimide (white case)
- Movable Contact.....Gold flashed copper alloy
- Ball Support Plate.....Copper alloy
- Detent Spring .....Stainless steel (spring)

**TYPICAL PERFORMANCE CHARACTERISTICS:**

- Contact Rating .....0.4 VA @ 20 VDC max.
- Initial Contact Resistance .....50 Milliohms max. @ 2 VDC
- Insulation Resistance .....1,000 Megohms min. @ 100 VDC
- Dielectric Strength .....300 VAC RMS @ sea level
- Operating Force .....6 Oz.-in. nom.
- SMT Operating Force.....3 Oz.-in. nom.
- Life Expectancy .....20,000 Steps

**ENVIRONMENTAL SPECIFICATIONS:**

- Operating Temperature.....-22°F to +185°F (-30°C to +85°C)
- Storage Temperature.....-49°F to 212°F (-45°C to +100°C)
- Vibration Resistance.....Subjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
- Shock Resistance .....Will withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
- Salt Spray Test .....Withstands an atmosphere of 5% salt water at temperature of 50°C
- Hydrogen Sulfide Test .....Withstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
- Atmospheric Test .....Withstands an atmosphere of 30-50 PPM sulfite gas at a temperature of 40°C for 240 hours
- Solder Heat Resistance .....Withstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210
- Bubble Test.....Withstands submersion in 60°C Flouriert for 1 min. without leakage



DRD10E



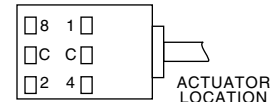
DRD16CE

**TRUTH TABLES**

**Terminal Identification**  
(view from bottom of the switch)



VIEW FROM BOTTOM OF THE SWITCH



NOTE: COMMON TERMINALS ARE CONNECTED INTERNALLY.

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

Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	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

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			X	X
4	X	X	X	X					X	X
8	X	X	X	X	X	X	X	X		

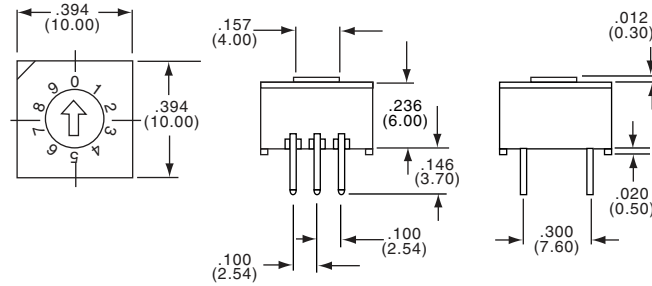
Pos.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X		X		X		X		X		X		X		X	
2	X	X			X	X			X	X			X	X		
4	X	X	X	X					X	X	X	X				
8	X	X	X	X	X	X	X	X								

A

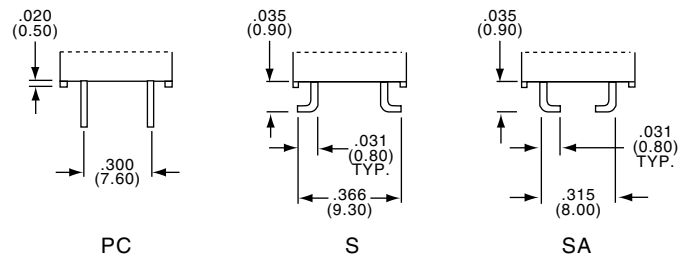
DRD "E" Series

**Rotary DIP Switches, Process Sealed, Through Hole and Surface Mount**

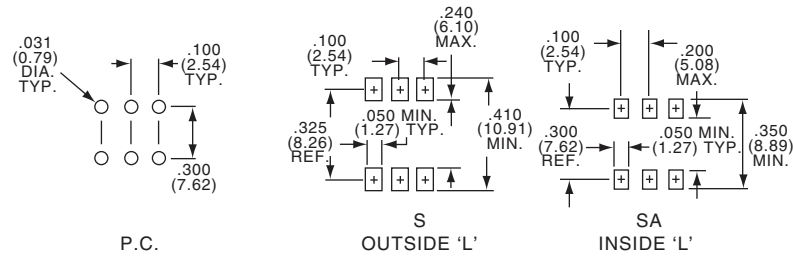
"D" FLUSH ACTUATOR



TERMINATIONS



LAYOUTS



HOW TO ORDER

