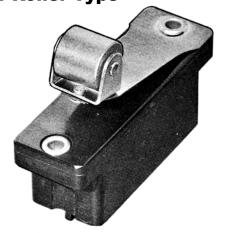




### **Sealed Plunger Type**

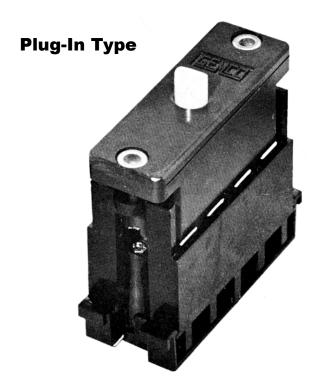


**Leaf Roller Type** 



#### **Features:**

- N.O. and N.C. Single and Double Throw.
- 2 N.O. and 2 N.C. DPDT.
- Snap Action Silver Cadmium Oxide Contacts with high contact pressure and low resistance.
- Precision Operation for repeat accuracy, reliability and long life performance.
- Contact mechanism completely enclosed in a molded case.
- Rugged Duty Nylon Operating Button for optimum strength and high speed reliability.
- Terminal screws or plug-in socket readily accessible for ease of wiring.
- UL Recognized.
- Temperature Limits, -50°F to 185°F.







#### **Description**

The Gemco Precision Snap Switches are designed for industrial duty applications where compact size, complete reliability and millions of trouble free operations are required.

#### Construction

The housing is a molded material which has an excellent resistance to arcing and carbon tracking. The operating button is of molded nylon, a material with excellent wear characteristics. The button is well guided at the top and bottom to ensure accurate repeatability and minimum wear. The large button diameter and bearing surface allows it to be actuated by either a rotating or a reciprocating cam.

#### **Mounting Snap Switch**

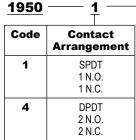
The mounting of the Snap Switch is accomplished with two No. 6 screws in the brass eyelets, which also serve to rivet and seal the case. The No. 6-32 binder head terminal screws in the rear of the unit are easily accessible.

#### **Plug-In Socket**

The new plug-in socket allows for substitution of switches without disturbing the original wiring. They are provided with saddle clamp wiring and have a convenient marking strip.

#### **Saddle Clamp Terminals**

Facilitates assembly of a single or multi-stranded conductor where connector fittings are not being used. Assures isolation for individual connectors. Available on SPDT only.



	Code	Terminal	
	В	Binder	
	P	Plug-In, Single or Double Pole	
	С	915/917 Cycl-Set, Single or Double Pole	
	D	Saddle Clamp, Single or Double Pole	

В

Code	Mounting Arrangement
A	Front
В	Side, not available on plug-in

Code	Type of Operator		
AO	Plunger Cam Operated		
AR	Plunger Cam Operated, with Boot		
во	Lever and 1/2" Dia. Roller Ass'y		
BR	Lever and 1/2" Dia. Roller Ass'y, with Boot		
DO	Push Operated Plunger (Cycl-Set & 2004 K RLS)		
DR	Push Operated Plunger, with Boot		







Terminal P



Terminal D





Operator AO



Operator DO



Roller Follower Adaptor



#### Plug-In Socket Assembly Not Including Limit Switch

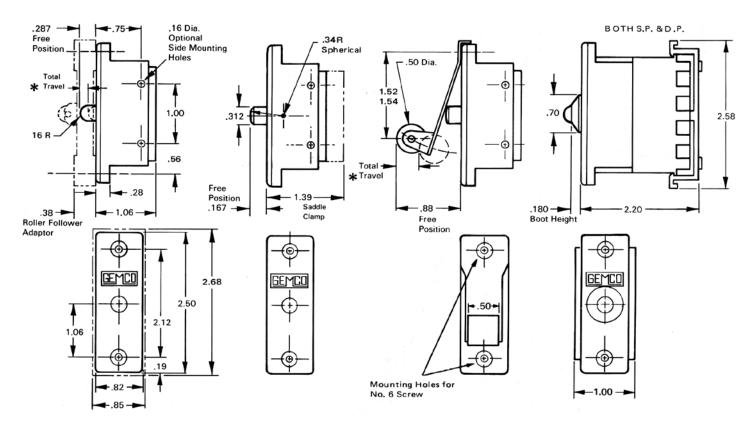
SPDT, Part Number SD-1345-D

DPDT, Part Number SD-1320-D

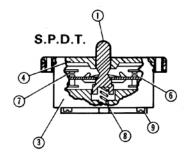
Roller Follower Adaptor for AO and AR numbered snap switches, Part Number SD-1571-B



Snap Switch with Standard AO Operator and Adaptor Option Snap Switch with Standard DO Operator and Saddle Clamp Option (SPDT Only) Snap Switch with Standard BO Operator and Leaf Roller Plug-In Snap Switch with Plug-In Socket Ass'y and Plunger Boot Option

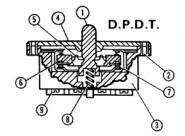


#### Dimensions above are for both SPDT and DPDT switches.



- 1. Plunger
- 2. Eyelet
- 3. Enclosure
- 5. Contact Spring
- 6. Movable Contact Ass'y
- 7. Stationary Contact Ass'y
- 8. Return Spring
- 9. Terminal Screws

Operating Data Standard Operator				
	SPDT	DPDT		
Pre-Travel	.057074	.057074		
Differential	.015025	.025046		
Re-Set Over-Travel	.032059	.015046		
Total Travel	.103120	.103120		
Operating Force	14-16 oz.	14-16 oz.		



Special Purpose Switches					
Part Number	Description	Product Line			
1950-1404	SPDT	1970			
1950-1405	DPDT	1970			
1950-1406	SPST*	1970			
1950-1408	SPDT*	915/917/2004			
* Slow Make, Slow Break					

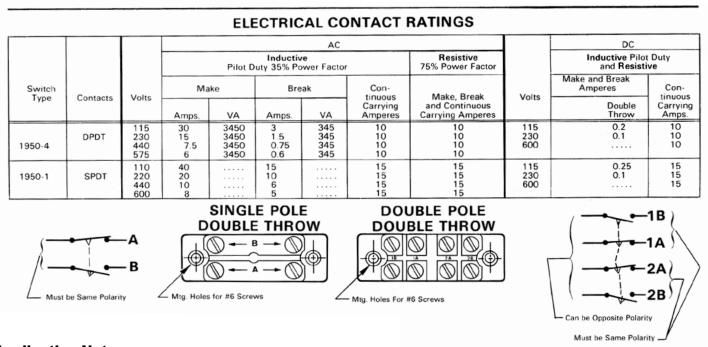
Leaf Roller Operator					
	SPDT	DPDT			
Pre-Travel	.145185	.145185			
Differential	.038063	.063115			
Re-Set Over-Travel	.077099	.047087			
Total Travel	.220230	.220230			
Operating Force	14-16 oz.	14-16 oz.			





#### **Electrical Contacts**

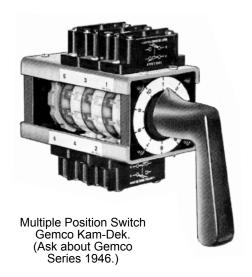
The welded silver cadmium oxide contacts provide many advantages including high conductivity, excellent resistance to sticking contacts, and minimal electrical erosion. The presence of cadmium oxide gives the high arc quenching characteristics of cadmium without losing the high conductivity of silver. This is because the cadmium oxide remains as discrete particles throughout the silver base and each exhibits it's own physical characteristics.

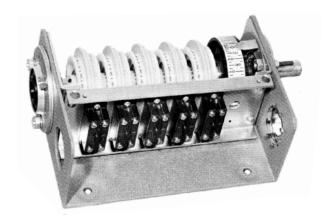


#### **Application Note**

The N.O. and N.C. contact of the SPDT snap switch must be used on circuits of the same polarity. The two pole snap switch has two electrically separate poles which can be used on opposite polarities. However, the N.O. and N.C. circuit of each pole of the two pole snap switch must be used on the same polarity.

#### **Applications Using Gemco Precision Limit Switches**





Gemco 5 Circuit NEMA 1 Rotating Cam Limit Switch with Timing Dial. (Ask about Gemco Series 1980 and 1981.)

