

# SD Domes



The SD domes are available in 4 types:

- SD 156
- SD 270
- SD 350
- SD 500

The SD Domes are designed for printed circuit board switch-contact applications. The switch-contact rated domes are available in stainless steel or gold plated and can electrically function as a shorting element. The SD switches are designed to actuate to the flat position.

### Main features

- Switch-contact or tactile element
- Stainless steel (or gold on request)
- Long life: 1 million operations, SD 156 10<sup>5</sup> operations
- Four sizes: 3.96; 6.85; 8.89; 12.7 mm (0.156, 0.270, 0.350, 0.500)

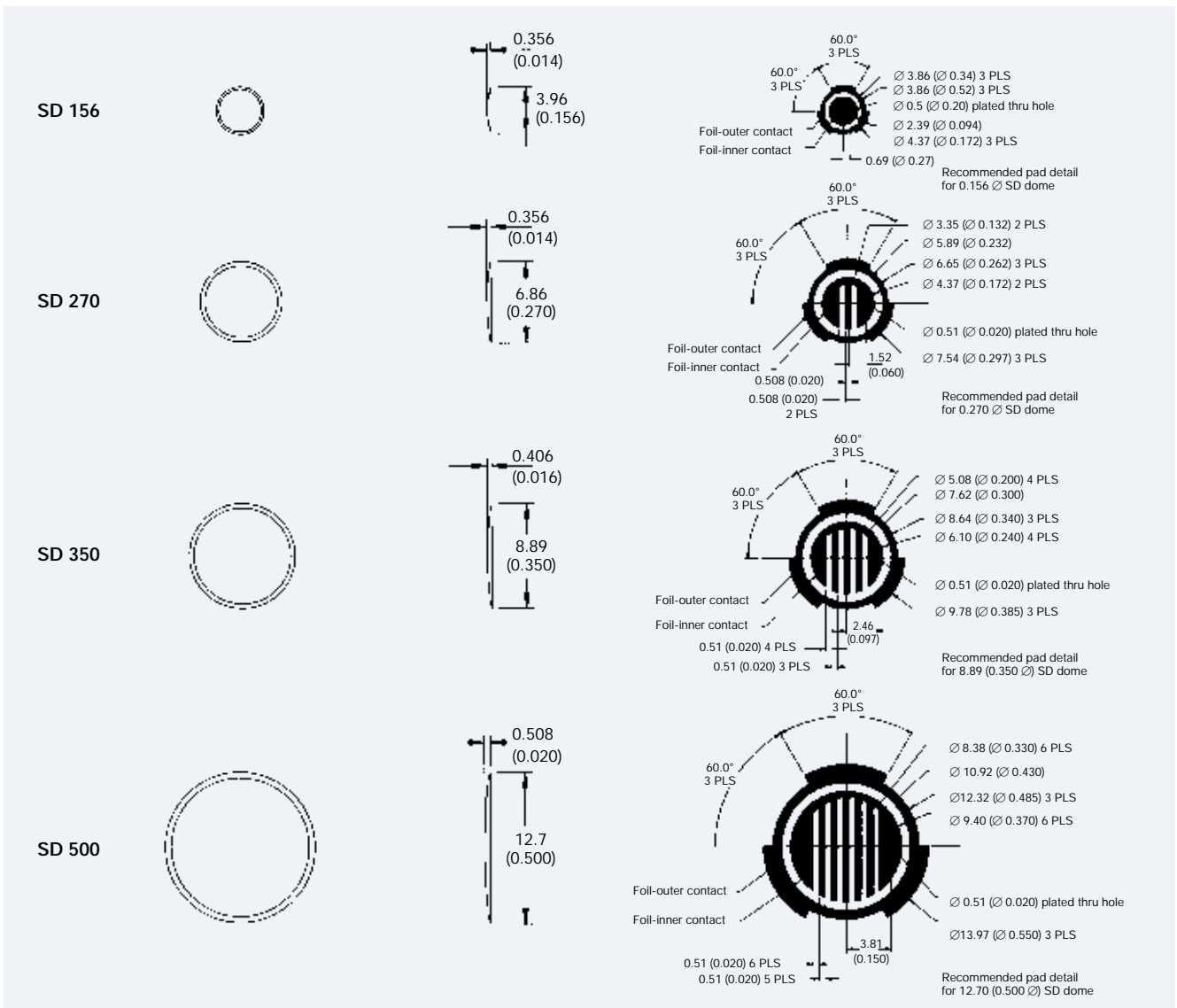
### Applications

- Flat panels
- Communications
- Automotive
- Avionics
- Security alarm

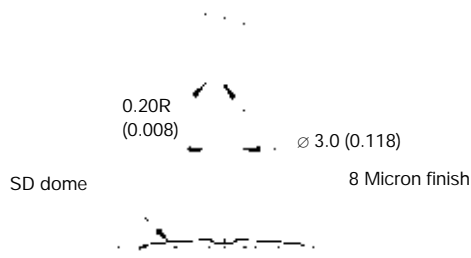
Construction	
Function	Momentary
Contact arrangement	1 make contact = SPST, NO
Electrical data	
Switching power	0.6 W
Switching voltage max.	MOS, TTL compatible
Switching current max.	MOS, TTL compatible
Dielectric strength (50 Hz, 1 Min.)	not available
Operating life with max. switching power	≥ 10 <sup>6</sup> operations, 10 <sup>5</sup> operations for SD 156
Contact resistance, initial	MOS, TTL compatible
Insulation resistance	not available
Contact bounce	< 20 ms
Mechanical data	
Nominal travel (snap over)	Dependent on dome size
Maximum travel	Dependent on dome size
Operating force	2.25N ± 0.3N (225 grams ± 30 grams); for SD 156: 1.9N ± 0.3N (190 grams ± 30 grams)
Sizes	3.96, 6.85, 8.89, 12.7 (0.156, 0.270, 0.350, 0.500)
Further data	
Contact material	SS (stainless steel), Gold on request
Operating temperature	- 40°C to + 85°C
Storage temperature	- 55°C to + 85°C

Ordering code: see next page.

## Dimensional Drawings



## Recommended Actuator Design



Ordering code		1	2	3	4
		<b>Example:</b> SD	270	225	SS
1	<b>Designation:</b> SD				
2	<b>Size (diameter in inch):</b> 156 = 3.96 (0.156), 270 = 6.85 (0.270), 350 = 8.89 (0.350), 500 = 12.7 (0.500)				
3	<b>Operating force in grams:</b> 225 (2.25N), 190 (1.9N) = SD 156				
4	<b>Contact material:</b> SS = stainless steel (standard), Ag = gold (on request)				