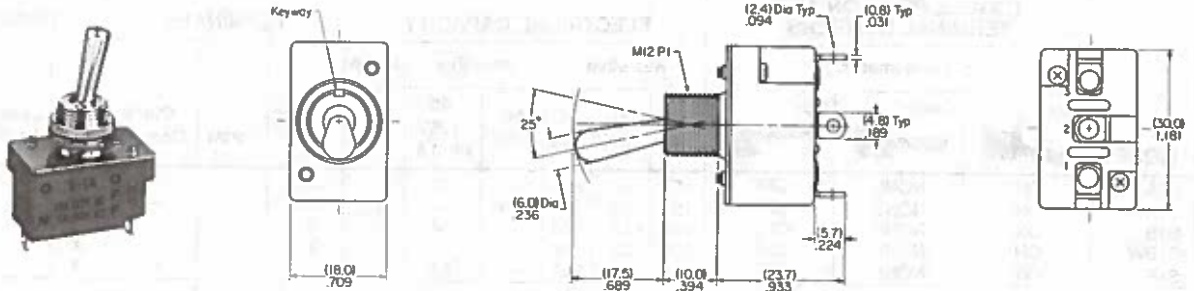


NKK SERIES S TOGGLE SWITCHES

MEDIUM RATED/STANDARD SIZE/1 & 2 POLE

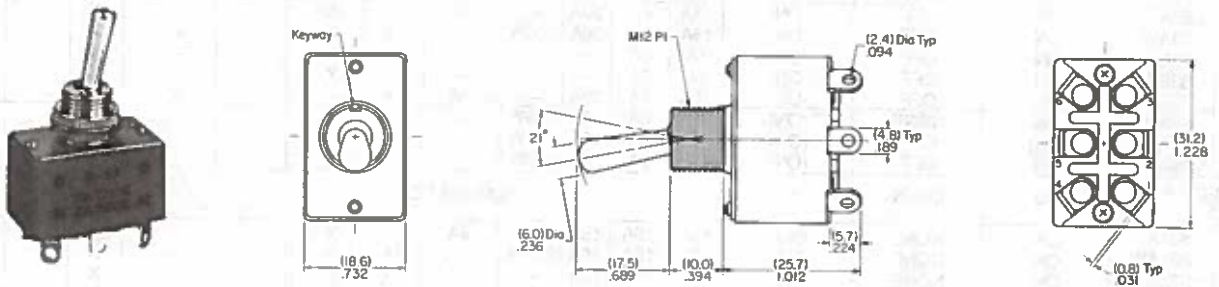
Dimensions for S1A/B/F, S2A/B/F, & S3A/B/F



S1A Model Shown

S1 models do not have Terminal

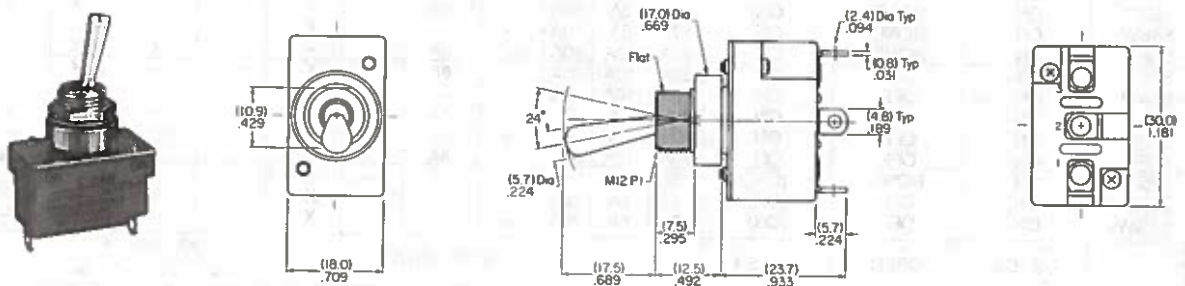
Dimensions for S21A/B, S6A/B/F, & S7A/B/F



S6A Model Shown

S21 models do not have Terminals 2 &

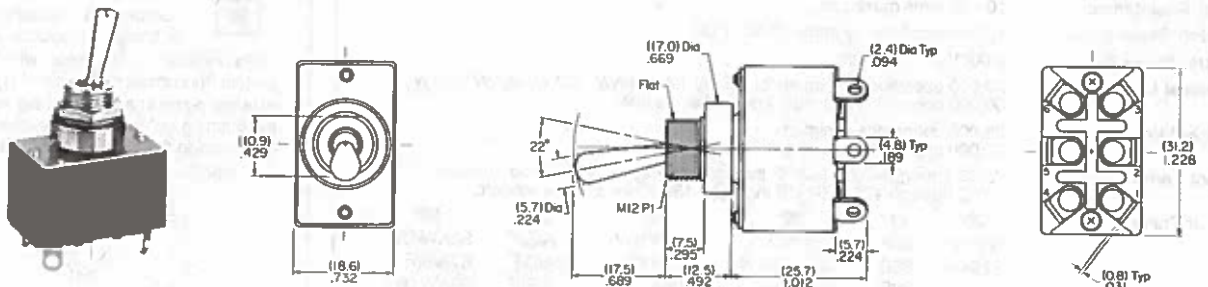
Dimensions for S1AW/BW, S2AW/BW, S3AW/BW, S5AW, S8AW, & S9AW



S2AW Model Shown







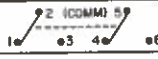
S1 models do not have Terminal

Dimensions for S21AW/BW, S6AW/BW, S7AW/BW, S25AW, S28AW, & S29AW



MEDIUM RATED/STANDARD SIZE/1 & 2 POLE

POLES, CIRCUITS, & RATINGS

Poles & Circuits	MODEL	TOGGLE POSITION AND TERMINAL NUMBERS			ELECTRICAL CAPACITY						TERMINALS			TOGGLES		
		() = Momentary			Resistive			Inductive		Lamp	Solder Lug	Screw	Quick Connect	Bat	Lever Lock	Splashproof Bushing
		Down 	Center 	Up 	AC 125V	AC 250V	DC 30V	AC 125V	AC 125V PF 0.6	AC 125V						
1T	S1A	ON	NONE	OFF	15A	8A	20A	---	8A	---	---	X	---	---	X	---
	S1AW	ON	NONE	OFF	15A	6A	20A	200W	---	4A	---	X	---	---	X	X
	S1B	ON	NONE	OFF	10A	5A	10A	---	5A	---	---	X	---	---	X	---
	S1BW	ON	NONE	OFF	10A	5A	10A	---	---	---	---	X	---	---	X	X
	S1F	ON	NONE	OFF	15A	8A	20A	---	8A	---	---	---	X	---	X	---
SELECTED TERMINALS		1-3	OPEN	OPEN	SCHEMATIC: 											
2T	S2A	ON	NONE	ON	15A	6A	20A	---	8A	---	---	X	---	---	X	---
	S2AW	ON	NONE	ON	15A	6A	20A	200W	---	4A	---	X	---	---	X	X
	S2B	ON	NONE	ON	10A	5A	10A	---	5A	---	---	X	---	---	X	---
	S2BW	ON	NONE	ON	10A	5A	10A	---	---	---	---	X	---	---	X	X
	S2F	ON	NONE	ON	15A	8A	20A	---	8A	---	---	---	X	---	X	---
	S3A	ON	OFF	ON	15A	6A	20A	---	8A	---	---	X	---	---	X	---
	S3AW	ON	OFF	ON	15A	6A	20A	200W	---	5A	---	X	---	---	X	X
	S3B	ON	OFF	ON	5A	3A	---	---	---	---	---	X	---	---	X	---
	S3BW	ON	OFF	ON	5A	3A	---	---	---	---	---	X	---	---	X	X
	S3F	ON	OFF	ON	15A	8A	20A	---	8A	---	---	---	X	---	X	---
S5AW	ON	NONE	(ON)	15A	8A	20A	200W	---	---	---	X	---	---	X	X	
S8AW	(ON)	OFF	(ON)	15A	6A	20A	200W	---	---	---	X	---	---	X	X	
S9AW	ON	OFF	(ON)	15A	6A	20A	200W	---	---	---	X	---	---	X	X	
SELECTED TERMINALS		2-3	OPEN	2-1	SCHEMATIC: 											
3T	S21A	ON	NONE	OFF	15A	15A	15A	---	8A	---	---	X	---	---	X	---
	S21AW	ON	NONE	OFF	15A	15A	15A	200W	---	4A	---	X	---	---	X	X
	S21B	ON	NONE	OFF	10A	5A	10A	---	5A	---	---	X	---	---	X	---
	S21BW	ON	NONE	OFF	10A	5A	10A	---	---	---	---	X	---	---	X	X
	S21F	ON	NONE	OFF	15A	15A	15A	---	8A	---	---	---	X	---	X	---
SELECTED TERMINALS		1-3 4-6	OPEN	OPEN	SCHEMATIC: 											
4T	S6A	ON	NONE	ON	20A	10A	20A	---	8A	---	---	X	---	---	X	✓
	S6AW	ON	NONE	ON	20A	10A	20A	---	---	---	---	X	---	---	X	✓
	S6B	ON	NONE	ON	10A	5A	10A	---	5A	---	---	X	---	---	X	---
	S6BW	ON	NONE	ON	10A	5A	10A	---	---	---	---	X	---	---	X	---
	S6F	ON	NONE	ON	20A	10A	20A	---	8A	---	---	---	X	---	X	✓
	S7A	ON	OFF	ON	20A	10A	20A	---	8A	---	---	X	---	---	X	---
	S7AW	ON	OFF	ON	20A	10A	20A	---	---	---	---	X	---	---	X	X
	S7B	ON	OFF	ON	5A	3A	5A	---	5A	---	---	X	---	---	X	---
	S7BW	ON	OFF	ON	5A	3A	5A	---	---	---	---	X	---	---	X	---
	S7F	ON	OFF	ON	20A	10A	20A	---	8A	---	---	---	X	---	X	✓
S25AW	ON	NONE	(ON)	15A	6A	20A	---	---	---	---	X	---	---	X	---	
S28AW	(ON)	OFF	(ON)	15A	8A	20A	---	---	---	---	X	---	---	X	X	
S29AW	ON	OFF	(ON)	15A	6A	20A	---	---	---	---	X	---	---	X	X	
SELECTED TERMINALS		2-3 5-6	OPEN	2-1 5-4	SCHEMATIC: 											

Terminal numbers are on the switch.

Ordering suffix is L; see page S12.

GENERAL SPECIFICATIONS

Contact Resistance:	10 milliohms maximum																																				
Insulation Resistance:	1,000 megohms minimum @ 500V DC																																				
Dielectric Strength:	2,000V AC minimum																																				
Mechanical Life:	30,000 operations minimum for S5AW, 8AW, 9AW, 25AW, 28AW, 29AW 50,000 operations minimum for all other models																																				
Electrical Life:	25,000 operations minimum 10,000 operations minimum with lamp load																																				
Ambient Temp Range:	-30°C through +70°C (+22°F through +158°F) for Splashproof models -10°C through +70°C (-14°F through +158°F) for all other models																																				
Angle of Throw:	<table border="0" style="display: inline-table; vertical-align: top;"> <tr> <td>20°</td> <td>21°</td> <td>22°</td> <td>24°</td> <td>25°</td> <td>28°</td> </tr> <tr> <td>S5AW</td> <td>S6A</td> <td>S6AW/BW</td> <td>S1AW/BW</td> <td>S1A/B/F</td> <td>S3AW/BW</td> </tr> <tr> <td>S25AW</td> <td>S6B</td> <td>S21AW/BW</td> <td>S2AW/BW</td> <td>S2A/B/F</td> <td>S7A/B/F</td> </tr> <tr> <td></td> <td>S6F</td> <td>S28AW</td> <td>S8AW</td> <td>S3A/B/F</td> <td>S7AW/BW</td> </tr> <tr> <td></td> <td>S21A</td> <td>S29AW</td> <td>S9AW</td> <td></td> <td></td> </tr> <tr> <td></td> <td>S21B</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	20°	21°	22°	24°	25°	28°	S5AW	S6A	S6AW/BW	S1AW/BW	S1A/B/F	S3AW/BW	S25AW	S6B	S21AW/BW	S2AW/BW	S2A/B/F	S7A/B/F		S6F	S28AW	S8AW	S3A/B/F	S7AW/BW		S21A	S29AW	S9AW				S21B				
20°	21°	22°	24°	25°	28°																																
S5AW	S6A	S6AW/BW	S1AW/BW	S1A/B/F	S3AW/BW																																
S25AW	S6B	S21AW/BW	S2AW/BW	S2A/B/F	S7A/B/F																																
	S6F	S28AW	S8AW	S3A/B/F	S7AW/BW																																
	S21A	S29AW	S9AW																																		
	S21B																																				

SPLASHPROOF BUSHING

W Any model with W in the part number has a splashproof bushing that includes two nitrile butadiene rubber seals which protect the contact mechanism: (1) the external o-ring in a trough at the top of the bushing collar and (2) the internal o-ring inside the bushing above the toggle joint.

