

# Series 206/208

## **Through-Hole DIP Switch**

- Available with SPST, SPDT, DPST, 3PST circuitry choices
- Available with low profile, standard, or extended actuator heights. Consult the ordering information for options.
- RoHS compliant
- Optional top tape seal for board spray washing

## Description

The terminals are molded into the thermoset base and provide an electrostatic discharge shield rating to 22KV when the OFF side terminals are connected to ground. The optimized contact design incorporating a dimple-to-flat surface wiping interface provides long-term contact corrosion resistance making this the ideal choice for any HVAC, server, or security system.

## **Ordering Information**

Series	Numb Pole		Numbo Throv		Number of Switch Positions	Actu Hei		Bottom Epoxy Seal		Tape eal	Actuation Preset
206-/20	8 -	1	2		1	E		S	-	Т	Ν
		•	_		•	•					•
Code	No. of poles		Code	No. of switch		_			Code	Spec.	
Blank	For SPST	or SPST		Coue	positions	Code		pec.		BLANK	Ship at OFF position
1	Single p	ole		1	1 position	Blank		dard (0.89mm/.0			Ship at ON position
2	Double pole		2	2 positions	- E	Exte	ktended (3.43mm/.135")		N	(SPST, DPST & 3PST	
3	3 poles			3	3 positions	L	(SPS	T only)			only)
				4	4 positions	ΙP	Low	profile (Flush)			Unity
				5	5 positions	Lr	(SPS	T & SPDT only)			
			•	6	6 positions						
	Code	S	pec.	7	7 positions						4
	Blank		SPST	8	8 positions						*
	1		throw	9	9 positions					Code	Top tape seal
	2		e throw	10	10 positions				•	Blank	No top tape seal
		2000		12	12 positions	(	Code	Bottom epo	xy seal	Blank	Top tape seal
							Blank	No epoxy seal			(Not available for
							S	Epoxy seal (Required for 2	06-1S)	Т	extended actuator or 1-position SPST
tes: 1.Co	ontact CTS	for other	common	features	s not listed.						DIP switch)

2. Alternate numbering format 20600/20800... instead of 206-/208-

Example: 206008ST

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Sense

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## **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit	
Contract Desistance (200)	Initial		50	milliohms	
Contact Resistance (206)	At end of life	100	minorims		
Contact Desistance (208)	Initial		100	milliohms	
Contact Resistance (208)	At end of life		500	millionms	
Insulation Resistance	Between insulated terminals	1000		Megohms	
Dielectric Strength	500 VAC between		1 minur		
Dielectric Strength	adjacent switches		T	minute	
Switch Canacitance	Between adjacent		5.0	~ <b>Г</b>	
Switch Capacitance	closed switches		5.0	pF	
			100	mA	
Nonswitching Rating			or	or	
			50	VDC	
	SPST	1	12	Position	
Circuit	SPDT	1	6	Position	
Circuit	DPST	1	6	Position	
	3PST	1	4	Position	

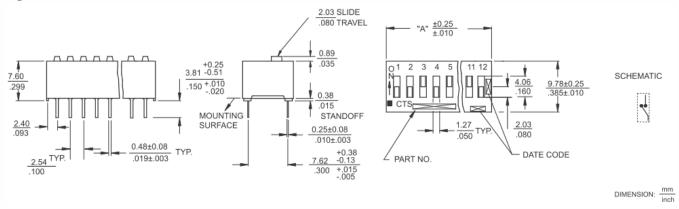
## **Mechanical and Environmental**

Actuation Life (206)	10,000 cycles switching 50mA @ 24VDC					
Actuation Life (208)	2,000 cycles switching 50mA @ 24VDC					
Soldering	Maximum wave temperature, 260°C for 5 seconds					
Shock	Per MIL-STD-202F, method 213B, condition A(50G's)					
SHOCK	with no contact inconsistencies greater than 1 microsecond					
Vibration	Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10 HZ to 2K HZ) with					
vibration	no contact inconsistencies greater than 1 microsecond					
Seal	Bottom epoxy seal optional					
Seal	Optional top tape seal for board spray washing					
Marking	Special side or top marking available-consult CTS					
Packaging:	Standard anti-static tube packaging					
Operating Temperature	-55°C to +85°C					
Range	->> ( 10 +&> (					
Storage Temperature	-55°C to +85°C					
Range						

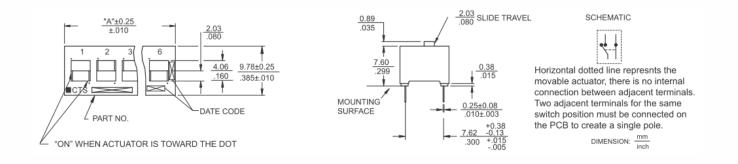


## **Mechanical Specifications**

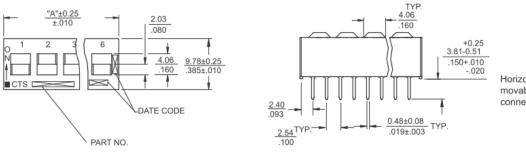
#### Figure 1 - SPST



#### Figure 2 – SPDT



#### Figure 3 – DPST





Horizontal dotted line represents the movable actuator, there is no internal connection between adjacent terminals.

DIMENSION: mm

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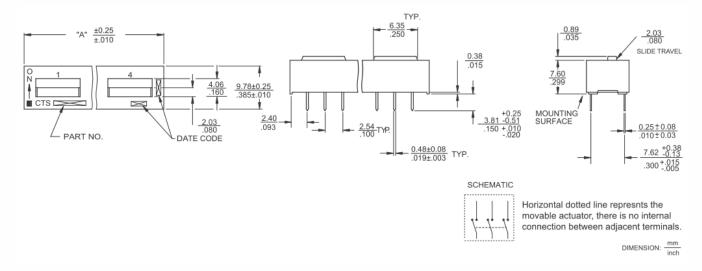
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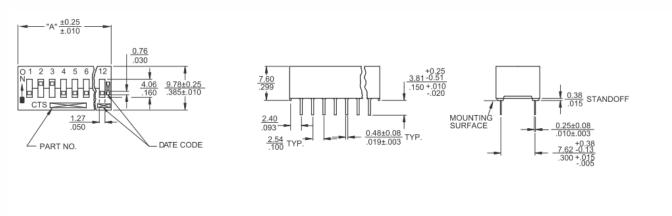
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#### Figure 4 - 3PST

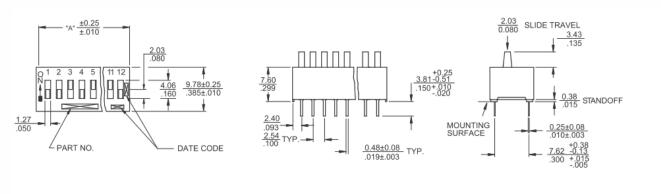


#### Figure 5 – Low Profile Actuators (SPST & SPDT only)



DIMENSION: mm

### Figure 6 – Extended Actuators (SPST only)



DIMENSION: mm

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## Series 206/208 Through-Hole DIP Switch

"A" Overall Dimensions	Number of Switch Positions	Actuation	Part Number	Both Bottom and Top Sealed	Low Profile Both Bottom and Top Sealed
3.96 / .156 7.26 / .286 9.80 / .386 12.34 / .486 14.88 / .586 17.42 / .686 19.96 / .786 22.50 / .886 25.04 / .986 27.58 / 1.086 32.66 / 1.286	2 3 4 5 6 7 8 9 10 12	SPST SPST SPST SPST SPST SPST SPST SPST	206/208-1S 206/208-2 206/208-3 206/208-4 206/208-5 206/208-6 206/208-7 206/208-8 206/208-8 206/208-9 206/208-10 206/208-12	206/208-2ST 206/208-3ST 206/208-4ST 206/208-5ST 206/208-6ST 206/208-7ST 206/208-8ST 206/208-9ST 206/208-10ST 206/208-12ST	206/208-2LPST 206/208-3LPST 206/208-3LPST 206/208-5LPST 206/208-6LPST 206/208-7LPST 206/208-8LPST 206/208-9LPST 206/208-10LPST 206/208-12LPST
7.26 / .286 12.34 / .486 17.42 / .686 22.50 / .886 27.58 / 1.086 32.66 / 1.286	1 2 3 4 5 6	SPDT SPDT SPDT SPDT SPDT SPDT	206-121 206-122 206-123 206-124 206-125 206-126	206-121ST 206-122ST 206-123ST 206-124ST 206-124ST 206-125ST 206-126ST	206/208-121LPST 206/208-122LPST 206/208-123LPST 206/208-123LPST 206/208-124LPST 206/208-125LPST 206/208-126LPST
7.26 / .286 12.34 / .486 17.42 / .686 22.50 / .886 27.58 / 1.086 32.66 / 1.286	1 2 3 4 5 6	DPST DPST DPST DPST DPST DPST	206-211 206-212 206-213 206-214 206-215 206-216	206-211ST 206-212ST 206-213ST 206-214ST 206-214ST 206-215ST 206-216ST	
9.80 / .386 17.42 / .686 25.04 / .986 32.66 / 1.286	1 2 3 4	3PST 3PST 3PST 3PST 3PST	206-311 206-312 206-313 206-314	206-311ST 206-312ST 206-313ST 206-314ST	

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