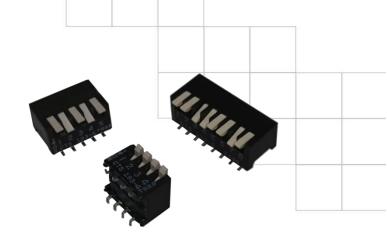


RoHS Compliant Sense

Series 193Side Actuated DIP Switch

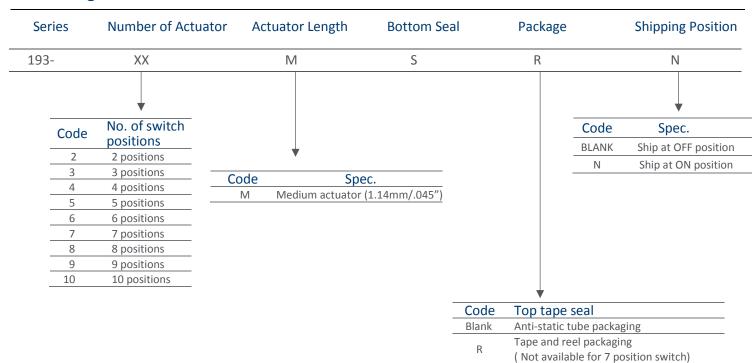
- Coplanarity: 0.1mm/.004" maximum
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- Integral terminal and contact locked into high temperature plastic base
- Gold plated contacts for long-term contact corrosion resistance



Description

The gold plated contact lock-over-center design provides positive detent action for CTS 193 Series. Optimized active contact design incorporates a high contact force, dimple wiping action interface, making it the ideal choice for any network or security system.

Ordering Information



Notes: Contact CTS for other common features not listed.

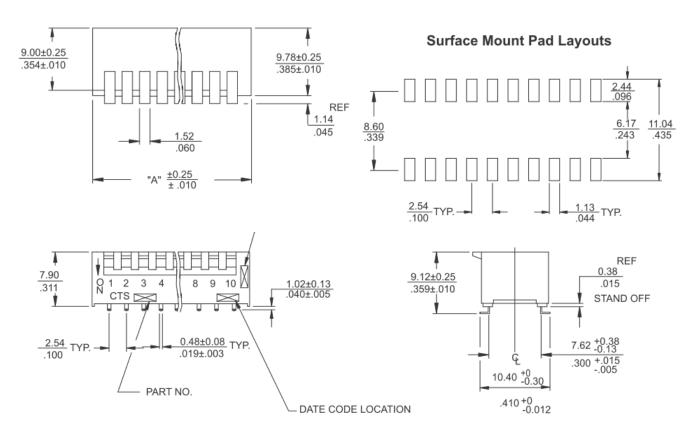
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Operating Temperature Range		-40	+85	°C
Circuit	SPST 2		10	positions
Contact Resistance	Initial At end of life		50 100	milliohms
Insulation Resistance	Between insulated terminals	1000		megohms
Dielectric Strength	500 VAC between adjacent switches		1	minute
Switch Capacitance	Between adjacent closed switches	5.0	pF	
			100	mA
Nonswitching Rating			or 50	or VDC

Mechanical and Environmental

Actuation Life	7,000 cycles switching at 50mA and 24 VDC		
Soldering	Maximum reflow temperature, 260°C for 60 seconds		
MSL	Level 1		
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU		
Shock	Per MIL-STD-202F, method 213B, condition A (50G's) 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 no contact inconsistencies greater than 1 microsecond		
Seal	Bottom seal standard		
Marking	Special side or top marking available-consult CTS		
Packaging	Standard anti-static tube packaging, optional tape & reel packaging		
Storage Temperature Range	-40°C to +85°C		

Mechanical Specifications



DIMENSION: mm inch

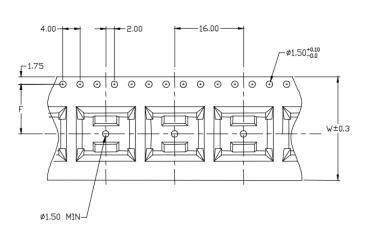
"A" Overall Dimensions	No. of Switch Positions	Part Number
7.26 / .286	2	193–2MS
9.80 / .386	3	193–3MS
12.34 / .486	4	193–4MS
14.88 / .586	5	193–5MS
17.42 / .686	6	193–6MS
19.96 / .786	7	193–7MS
22.50 / .886	8	193–8MS
25.04 / .986	9	193–9MS
27.58 / 1.086	10	193–10MS

Side Actuated DIP Switch

Packing: Tape and Reel

	m	

SW Section	Fig	Во	W	F	S
2	1	7.15	24.0	11.50	-
3	I	9.69	24.0	11.50	-
4	I	12.23	24.0	11.50	-
5	П	14.81	32.0	14.20	28.4
6	П	17.35	32.0	14.20	28.4
8	П	22.40	44.0	20.20	40.4



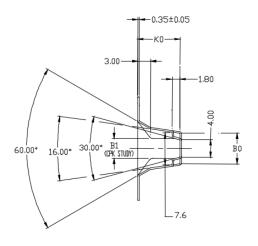
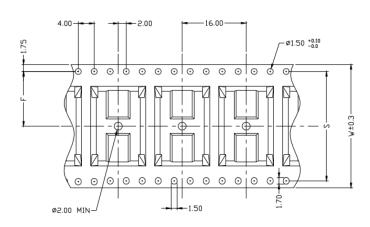


FIG I



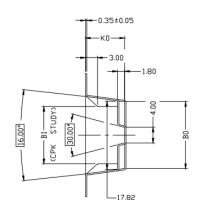


FIG II

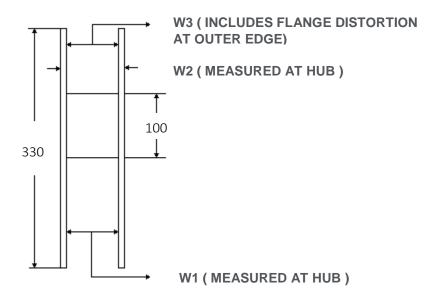
Side Actuated DIP Switch

SPECIFIED REEL PARTS DIMENSIONS:

Unit: mm

SW Section	W1	W2	W3
2~4	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.
5~6	32.4	38.4 MAX.	31.9 MIN./35.4 MAX.
8	44.4	50.4 MAX.	43.9 MIN./47.4 MAX.

(SEE PICTURE FIG)

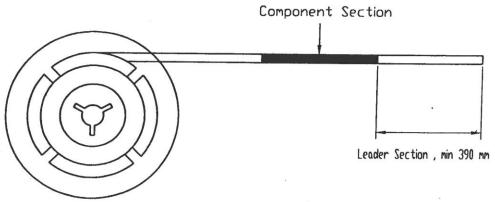


- 1. TAPE SPROCKET HOLE PITCH : 4.0 ± 0.1 MM
- 2. ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH
- IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS
 MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION OF THE COMPONENT IN
 T&R POCKET.
- 4. RECOMMENDED PART ORIENTATION IN TAPE & REEL POCKET.
 ORIENT SWITCH TERMINAL #1 TO THE SIDE OF ROUND SPROCKET HOLES, SEE PICTURE BELOW.



LENGTH OF TAPE

5. THERE SHALL BE A LEADER OF 390mm MINIMUM WHICH IS SEALED ONTO EMPTY CARRIER TAPE, SEE PICTURE BELOW.



(see enlargement underneath)

