



- Standard through hole terminal configurations
- Compatible with wave soldering and manual soldering
- IP67 Protection
- Excellent operation feels
- UL & cUL certificate
- Lead free and RoHS compliant







Description

Sealed switches with perfect performance for soldering and cleaning processes. Excellent operation feedback provides the user with simple and intuitive operation. The robust internal structure ensures long product life to meet various application requirements like Instrument, Telecommunications & Medicals.

Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			10	m-ohms
Insulation Resistance	Between insulated terminals	1000		M-ohms
Dielectric Strength	1500 VAC between adjacent switches	1		minute
Rating current	125VAC	6		
(Detail refers to Contact	250VAC	3		Α
Material Options)	28VDC	3		

Mechanical and Environmental

Soldering	Through hole type: Soldering temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds Frequency of solder process: 2 times Max.
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU and 2015/863/EU
Operating Force	10N max (applied in operation direction)
Stop strength	30N for 30 seconds
Actuation Life	50,000 cycles
Operating Temperature	-30°C to +85°C
Storage Temperature	-30°C to +85°C

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RoHS > Sense **Ordering Information Terminal** Switch Support Contact Actuator Cap Series Actuator O Ring **Bushing** Termination Color Type **Function** Material **Bracket** Cap 033TE S SA S Α 1 S 1 S 1 R Code Terminal type Straight S Code Actuator cap Η Horizon right angle Blank None ٧ Vertical right angle 10.58 (for actuator S) 7.56 (for actuator T) Switch function Code SA SP on-none-on SB SP on-none-(on) SC SP on-off-on Code Cap color SP (on)-off-(on) SD 0 Transparent SE SP on-off-(on) 1 White DP on-none-on DA 2 Black DB DP on-none-(on) 3 Red DP on-off-on DC 4 Orange DP (on)-off-(on) DD 5 Yellow DP on-off-(on) DE Green 6 3 way position switches 7 Blue TΑ DP on-on-on Code Actuator Support bracket Code 12.43 S (S terminal only) 7.30 Blank None **ESD Protection** 11.68 Code Actuator 16.00 Α 12.43(black) 3 11.68 В 12.43(white) 4 16.00 C 12.43(silver) 5 Snap-in 11.68 D 7.30(black) 6 Snap-in 16.00 Ε 7.30(white) Snap-in 11.68 F 7.30(silver) 8 Snap-in 16.00 Code Bushing Code O ring Std. non-thread 6.15 Blank None Thread 8.89 (S terminal only) For B bushing only Code **Contact Material**

Code	Termination
Blank	Right angle
1	Solder lug
2	P.C 1.27 width
3	Quick connect
4	Wire wrap
5	Wire wrap

Silver plated Gold plated В Gold over silver G Τ Tin plated





Mechanical Specifications

Figure 1 – 033TESSASA1S



N1 =	Switch position			
Name	•••	•	•••	
033TESSA	ON	none	ON	
033TESSB	ON	none	(ON)	
033TESSC	ON	OFF	ON	
033TESSD	(ON)	OFF	(ON)	
033TESSE	ON	OFF	(ON)	
Term. Comm.	2-3	open	2-1	

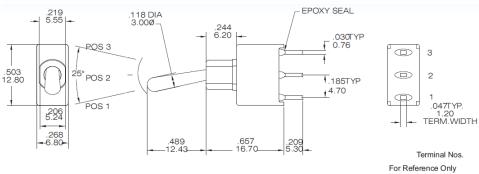
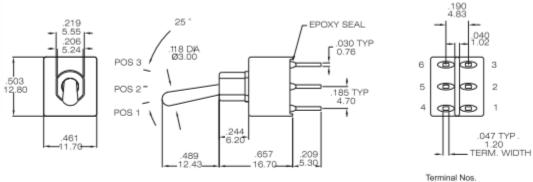


Figure 2 - 033TESDASA1S





Maria	Switch position		
Name	•••	•	•••
033TESDA	ON	none	ON
033TESDB	ON	none	(ON)
033TESDC	ON	OFF	ON
033TESDD	(ON)	OFF	(ON)
033TESDE	ON	OFF	(ON)
Term. Comm.	2-3, 5-6	open	2-1, 5-4
	3 Way switch		
033T-E-STA	ON	ON	ON
Term. Comm.	2-3, 5-6	2-3, 5-4	2-1, 5-4



For Reference Only



Figure 3 – 033TEHSATAS





NI	Switch position			
Name	•••	•	•••	
033TEHSA	ON	none	ON	
033TEHSB	ON	none	(ON)	
033TEHSC	ON	OFF	ON	
033TEHSD	(ON)	OFF	(ON)	
033TEHSE	ON	OFF	(ON)	
Term. Comm.	2-3	open	2-1	

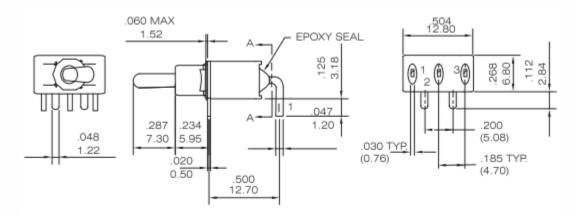


Figure 4 - 033TEHDATAS





••	Switch position		
Name	•••	•	•••
033TEHDA	ON	none	ON
033TEHDB	ON	none	(ON)
033TEHDC	ON	OFF	ON
033TEHDD	(ON)	OFF	(ON)
033TEHDE	ON	OFF	(ON)
Term. Comm.	2-3, 5-6	open	2-1, 5-4
	3 Way switch		
033TEHTA	ON	ON	ON
Term. Comm.	2-3, 5-6	2-3, 5-4	2-1, 5-4

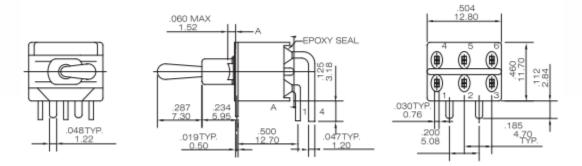


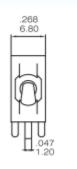


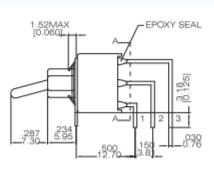
Figure 5 – 033TEVSATAS



	Switch position			
Name	•••	~	•••	
033TEVSA	ON	none	ON	
033TEVSB	ON	none	(ON)	
033TEVSC	ON	OFF	ON	
033TEVSD	(ON)	OFF	(ON)	
033TEVSE	ON	OFF	(ON)	
Term. Comm.	2-3	open	2-1	







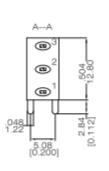
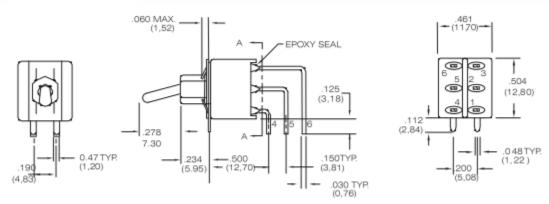


Figure 6 – 033TEVDATAS





Maria	Switch position		
Name	•••	•	•••
033TEVDA	ON	none	ON
033TEVDB	ON	none	(ON)
033TEVDC	ON	OFF	ON
033TEVDD	(ON)	OFF	(ON)
033TEVDE	ON	OFF	(ON)
Term. Comm.	2-3, 5-6	open	2-1, 5-4
	3 Way switch		
033TEVTA	ON	ON	ON
Term. Comm.	2-3, 5-6	2-3, 5-4	2-1, 5-4



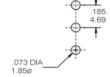




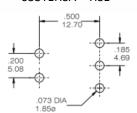


PCB Mounting Suggestions

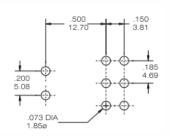
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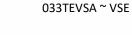
033TEHSA ~ HSE



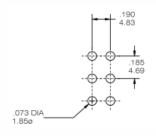
033TEHDA ~ HDE

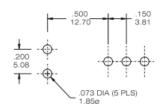


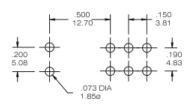
033TESDA~SDE



033TEVDA ~ VDE



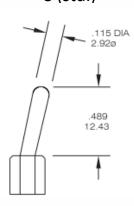




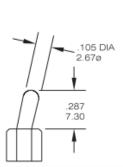
Actuator Options

ESD Protection Toggle

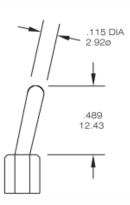
S (std.)



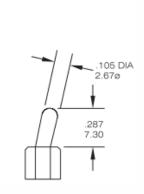
T (std.)



Α





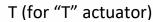


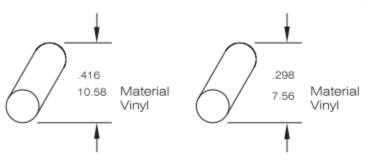
Code	Color
Α·D	Black(std.)
B \ E	White
C \ F	Silver



Actuator Cap Options

S (for "S" actuator)

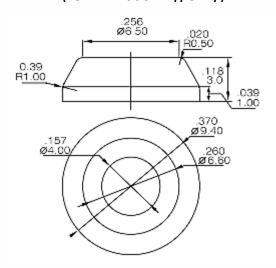




Code	Cap color	
0	Transparent	
1	White	
2	Black	
3	Red	
4	Orange	
5	Yellow	
6	Green	
7	Blue	

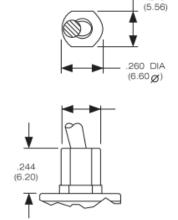
O Ring

R (for "B" bushing only)



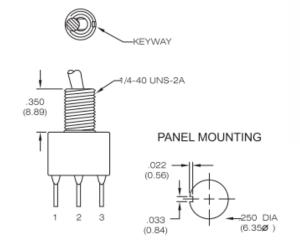
Bushing Options





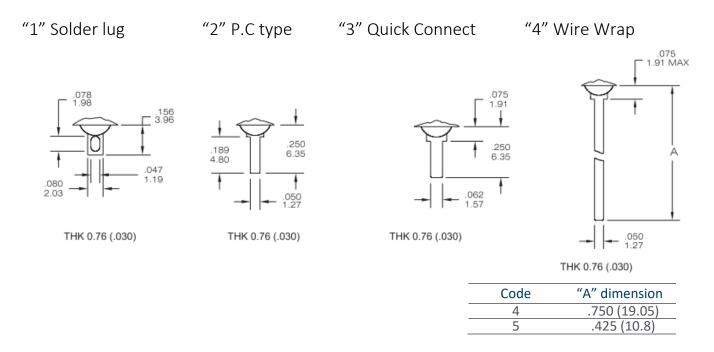
.219

В





Termination Options



Contact Material Options

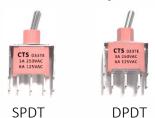
Code	Contact Material	Terminal Material	Rating
S	Silver plated	Silver plated	6A@125VAC or 28VDC;
			3A@250VAC
В	Gold plated over Nickel plated	Gold plated over Nickel plated	0.4VA Max. @20VAC or DC Max.
G	Gold plated over Silver plated	Gold plated over Silver plated	0.4VA Max. @20VAC or DC Max or 6A@125VAC or 28VDC; 3A@250VAC
Т	Gold plated over Nickel plated	Tin over Nickel plated	0.4VA Max. @20VAC or DC Max.

Note: Please contact factory for option "T".

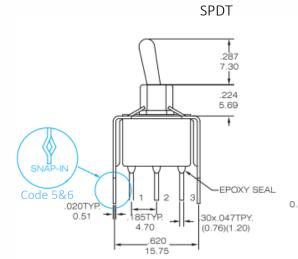


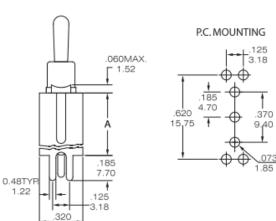


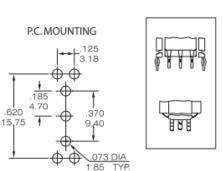
Vertical Support Bracket Options



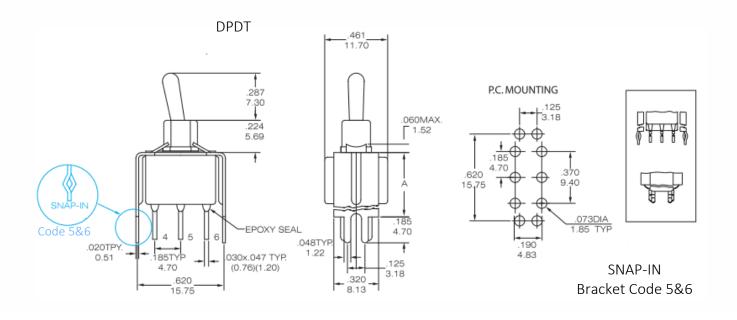
Code	"A" dimension	
1 & 5	.460 (11.68)	
2 & 6	.630 (16.00)	
Code 5&6: the Snap-in type		







SNAP-IN Bracket Code 5&6

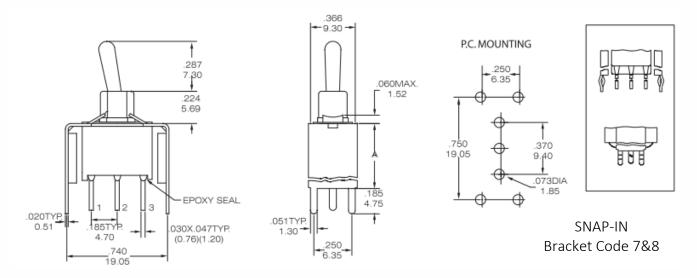


8.13

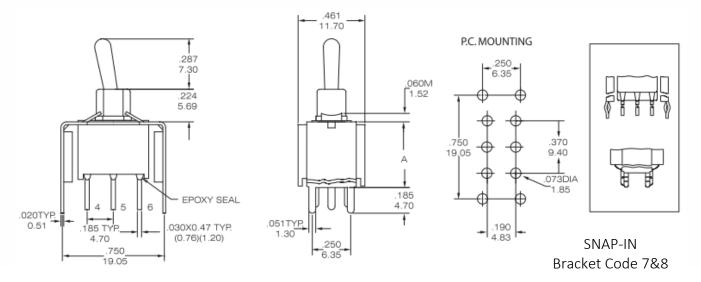




Code	"A" dimension
3 & 7	.460 (11.68)
4 & 8	.630 (16.00)
Code 7&	8: the Snap-in type

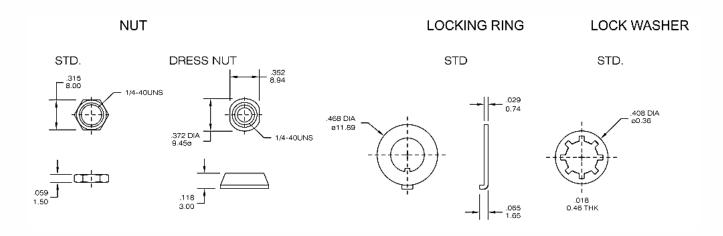


Code	"A" dimension
3 & 7	.460 (11.68)
4 & 8	.630 (16.00)
Code 78	8: the Snap-in type

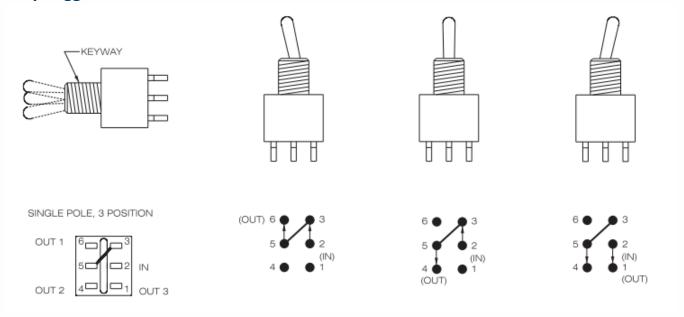




Hardware Options (only for "B" bushing)



3-Way Toggle Switches



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

033TEHSATAB 033TESDASA2B 033TESDCTA2S1 033TEVSATAG