c All us (CQC

TS40-T

SPECIFICATIONS

CONTACT RATING: 3A @120 VAC or 28 VDC (Q Contact) ELECTRICAL LIFE:30,000 make-and-break cycles at full load CONTACT RESISTANCE: 20 m Ω max. initial @2-4 VDC,100 mA

INSULATION RESISTANCE: 1,000 M Ω min.

DIELECTRIC STRENGTH: 1,500 V RMS @ sea level. OPERATING TEMPERATURE: -30 °C to +85 °C

MATERIALS

CASE - diallyl phthalate (DAP)

TOGGLE HANDLE - Copper alloy, chrome plated

BUSHING - Copper alloy, nickel plated

HOUSING - Stainless Steel

CONTACT AND TERMINAL - Copper alloy, silver plated

SWITCH SUPPORT - Copper alloy, tin-plated

How do you build the switches you need!! The TS-4 / TS-5, please see the (A);

The TS-6/TS-7/TS-8/TS-9, please see the (B)

В 5 (A)

Switch Function							
TS-4	SP on-none-on						
TS-4B	SP on-none-(on)						
TS-4A	SP on-off-on						
TS-4H	SP (on)-off-(on)						
TS-4I	SP on-off-(on)						
TS-5	DP on-none-on						
TS-5B	DP on-none-(on)						
TS-5A	DP on-off-on						
TS-5H	DP (on)-off-(on)						
TS-5I	DP on-off-(on)						
TS-5C	DP on-on-on						

Actuator							
For Bushing E/E1/F/F1							
S	9.40						
T	5.33						
U	7.37						
For Bushing G/G1/J/J1							
V	10.41						
X 5.59							
Locking Lever							
I K Ro	und ton						

Ac							
For Bu		TI					
S T	9.40						
Ú	0.00						
For Bu G/G1/J		F					
V X		1/ G					
Locki		J					
LK Ro LK1 Fl		G					

Bushing								
The	10-48 uns t	hread						
Е	(std.) flat	5.59						
F	key-way	5.59						
Non	-thread							
E1	flat	5.59						
F1	5.59							
1/4-40 uns thread								
G flat 7.87								
J key-way 6.60								
Non-thread								
G1	flat	7.87						
J1	key-way	6.60						
None								
The	actuator LK/l	K1 No						
reaui	rement to ch	oose						

The actuator LK/LK1 N
requirement to choose
the bushing, unless the
non-thd LKN / LK1N

	Termination
3 2 2	solder lug P.C wire wrap
С	ontact Material
ว २	silver plated gold plated

	Epoxy seal	
K	gold plated gold over silver tin plated	
G	gold over silver	
R	gold plated	

	-
(none) E	none seal epoxy seal

Cap color Vertical support

	Diaditot									
(none)										
A5	Vertical bracket									
A5S	Vertical bracket									
	(snap-in)									

Actuator Cap/ Rubber hood Sealing **Actuator Cap**

9.40 (for actuator S/V/X)

for bushing E/F

Rubber Hood E1 for bushing G/J

	1	white
	2	black
	3	red
	5	yellow
	6	green
	7	blue
_		

RoHS code H = RoHS Compliant

Actuator Cap

Cap color

9.40 (actuator S/V/X)

(none)

(B)	TS	_	6	_	Т	Е	1	Q	_	Е	_	S	_	Т	3	l _	5	_	

Horizon Right Angle	Vertical Right Angle	Switches Function
TS-6	TS-8	SP on-none-on
TS-6B	TS-8B	SP on-none-(on)
TS-6A	TS-8A	SP on-off-on
TS-6H	TS-8H	SP (on)-off-(on)
TS-6I	TS-8I	SP on-off-(on)
TS-7	TS-9	DP on-none-on
TS-7B	TS-9B	DP on-none-(on)
TS-7A	TS-9A	DP on-off-on
TS-7H	TS-9H	DP (on)-off-(on)
TS-7I	TS-9I	DP on-off-(on)
TS-7C	TS-9C	DP on-on-on
	TS-82	SP on-none-on
	TS-82B	SP on-none-(on)
	TS-82A	SP on-off-on
	TS-82H	SP (on)-off-(on)
	TS-82I	SP on-off-(on)

Actuator			
For Bushing E/E1/F/F1			
S	9.40		
T 5.33			
U 7.37			
For Bushing G/G1/J/J1			
V	10.41		
X 5.59			

ш.					
1	Th	threa			
	Е	flat	5.59		
1	F	key-way	5.59		
l	No	n-thread			
4	E1	(std.) flat	5.59		
l	F1	key-way	5.59		
4	1/4	ead			
l	G	flat	7.87		
	J	key-way	6.60		
	Non-thread				
	G1	flat	7.87		
	J1	kev-wav	6 60		

Bushing		(Conta	act Materia
e 10-48 uns thread		Q	silve	r plated
	5.59 5.59	R	gold	plated over silver
n-thread		K	goid	I / tin
(std.) flat 5.59 key-way 5.59			Ep	oxy seal
-40 uns thread		(n	one)	none seal

Epoxy seai		Г	1	white
none)	none seal epoxy seal		2	black red
Bracket type			5	yellow
			6	green blue
std. Straight Snap-in type		/	1	blue
			RoHS code	
			Н =	RoHS Compliant

Sub-miniature Toggle Switches



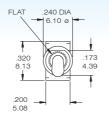


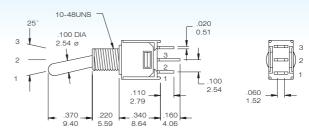
SPDT



	O 2 Comm	
	D Z COIIIII	
•/		
1.7	3	

Model	Switching position			
No.	,	.~.		
TS-4	ON	none	ON	
TS-4A	ON	OFF	ON	
TS-4B	ON	None	(ON)	
TS-4H	(ON)	OFF	(ON)	
TS-4I	ON	OFF	(ON)	
Term. Comm.	2-3	open	2-1	





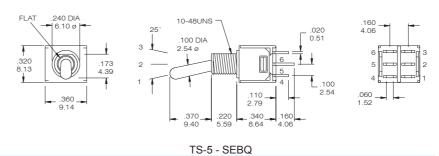
TS-4 - SEBQ

DPDT



	9	⊃2 Cc	<u>mm_</u>	⊃5 Comm
1	9	3	4 9	6

Model	Switching position			
No.	ļ	~.	•	
TS-5	ON	none	ON	
TS-5A	ON	OFF	ON	
TS-5B	ON	None	(ON)	
TS-5H	(ON)	OFF	(ON)	
TS-5I	ON	OFF	(ON)	
Term. Comm.	2-3,5-6	open	2-1,5-4	
3 way switches (SP3T)				
TS-5C	ON	ON	ON	
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4	



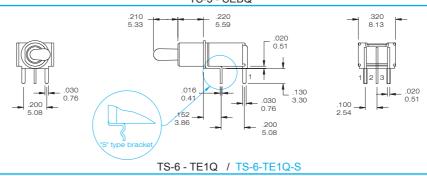
SPDT

TOGGLE





Model	Switching position			
No.	,	.~.		
TS-6	ON	none	ON	
TS-6A	ON	OFF	ON	
TS-6B	ON	None	(ON)	
TS-6H	(ON)	OFF	(ON)	
TS-6I	ON	OFF	(ON)	
Term. Comm.	2-3	open	2-1	

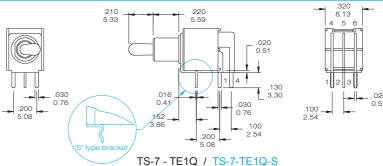


DPDT



9)2 C	omm	Q5 Comm
9	3	49	6 [•]

Model	Switching position			
No.	·	·~·	<u></u>	
TS-7	ON	none	ON	
TS-7A	ON	OFF	ON	
TS-7B	ON	None	(ON)	
TS-7H	(ON)	OFF	(ON)	
TS-7I	ON	OFF	(ON)	
Term. Comm.	2-3,5-6	open	2-1,5-4	
3 way switches (SP3T)				
TS-7C	ON	ON	ON	
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4	

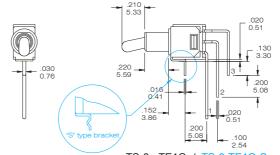


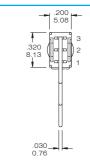
SPDT



2 Comm	
1 7 3	

Model No.	Switching position		
	1	.~.	∴
TS-8	ON	none	ON
TS-8A	ON	OFF	ON
TS-8B	ON	None	(ON)
TS-8H	(ON)	OFF	(ON)
TS-8I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

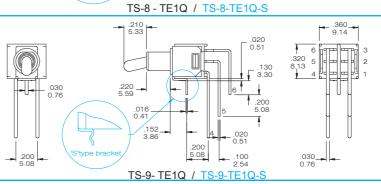




DPDT



Model	Switching position		
No.	1	~.	
TS-9	ON	none	ON
TS-9A	ON	OFF	ON
TS-9B	ON	None	(ON)
TS-9H	(ON)	OFF	(ON)
TS-9I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
TS-9C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



Sub-miniature Toggle Switches

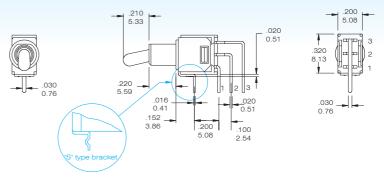




SPDT



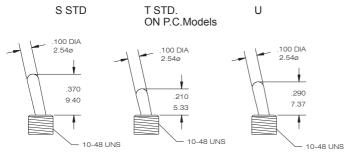
Model	Switching position		sition
No.			
TS-82	ON	none	ON
TS-82A	ON	OFF	ON
TS-82B	ON	None	(ON)
TS-82H	(ON)	OFF	(ON)
TS-82I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



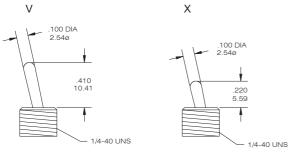
TS-82-TE1Q / TS-82-TE1Q-S

Actuator Option

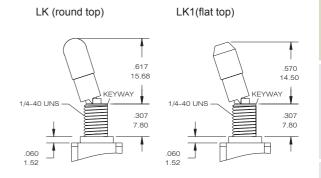
only applied for the bushing (E/E1/F/F1)



only applied for the bushing (G/G1/J/J1)



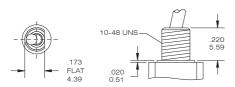
Locking Lever



Bushing Option Code not required unless non-thread ordered, choose the bushing code "N" -- LKN / LK1N

Bushing Option

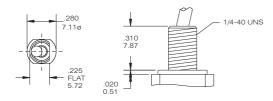
E THD. STD. E1 NON THD. STD. ON P.C.Model



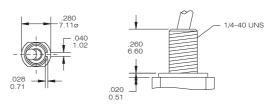
F THD F1 NON THD



G THD G1 NON THD



J THD J1 NON THD



<u>'</u>

B Solder Lug(STD)

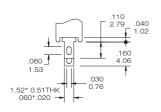
C PRINTED CIRCUIT

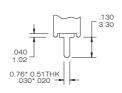
TERMINAL OPTION

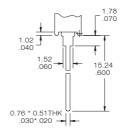
D Wire Wrap

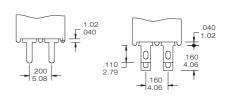
DPDT

(ONLY FOR THE TS-4 / TS-5)









CONTACT MATERIAL OPTIONS

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

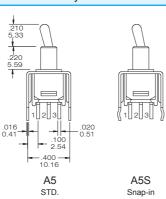
* THE K option is only for some special item. Please inquire first when you need the "K" option

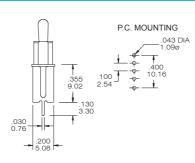
P.C.B MOUNTING DIMENSION TS-4 (PC terminal) TS-6 TS-8 10-48 BUSHING 195 DIA 4.95e 195 DIA 4.95e 175 DIA

VERTICAL SUPPORT BRACKET OPTION

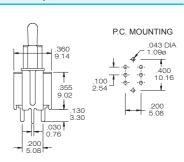
only for the TS-4/TS-5. If you need the vertical support bracket , please build the terminal option - "C" code







TS-4-TE1CQ-A5



TS-5-TE1CQ-A5

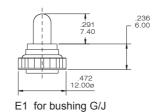
Toggle Cap Option

Rubber Hood Sealing

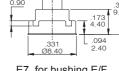
T3 for actuator "S"only



code	color	code	color
1	white	5	yellow
2	black	6	green
3	red	7	blue



(1/4 - 40UNS)



E7 for bushing E/F (10-48UNS special code)

A-29