Slides Product Selection Guide

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Series	ES	TS	1000	GS	L	LP	S		
Switch Type	Tiny	Tiny	Miniature	Ultra- miniature	Miniature	Miniature	Power		
Poles	1 & 2	1	1&2	1	1 & 2	1 & 2	1 & 2		
Momentary			•		•		•		
Process Sealed	•			•					
Splashproof	•				•				
Screwdriver Slot					•		•		
Housing Marking						•	•		
Tape & Reel	•			•					
Max. Current	0.4 VA	3 A	6 A	0.4 VA	4 A	11A	15 A		
Terminations									
Wire Wrap		•	•		٠				
Quick Connect			•				•		
Wire Lead					•	•	•		
Solder Lug			•		•	•	•		
PC	•	٠	•	•	٠		•		
PCB Mount Options									
Thru-hole	•	•	•	•	•	•	•		
Vertical	•	•	•	•	٠	•	•		
Right Angle	•	٠	•	٠			•		
Surface Mount	•			•					
Panel Mount Options			·		•		·		
Snap-in						•	•		
Mounting Ears			•		•		•		
Right Angle	•	•	•	•			•		
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Features/Benefits

- Reliable contact design ensures long electrical life
- Ratings up to 3 AMPS
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS compliant

Typical Applications

- Test & measurement equipment
- Computers & peripherals
- Telecommunications & networking equipment

® **RN** Models Available

Specifications

Materials

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (TS01 Model): 3 AMPS @ 120 V AC or 28 V DC; (TS02, TS03 Models): 1 AMP @ 120 V AC or 28 V DC. See page I-10 for additional ratings.

ELECTRICAL LIFE:

- TS01 MODELS: 60,000 make-and-break cycles at full load. TS02, TS03 MODELS: 30,000 cycles.
- CONTACT RESISTANCE: Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
- INSULATION RESISTANCE: $10^9 \Omega$ min. DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

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OPERATING TEMPERATURE: -30°C to 85°C

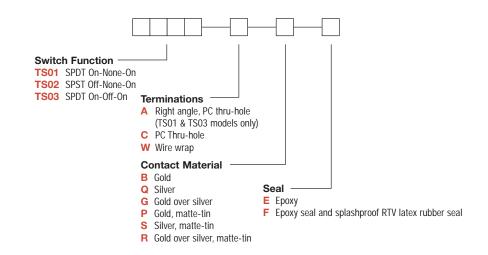
SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

- CASE: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0).
- ACTUATOR: Nylon, black standard.
- HOUSING: Stainless steel or stainless steel, nickel plated.
- END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page I-10 for additional contact materials.
- CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page J-10 for additional contact materials.
- TERMINAL SEAL: Epoxy. Refer to Soldering and Cleaning in Technical Data chapter.

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. **NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J–9 and J–10. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



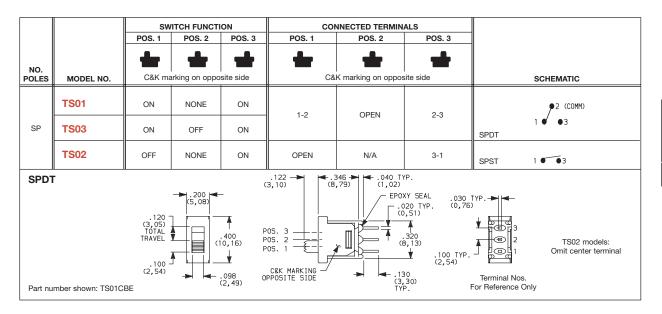


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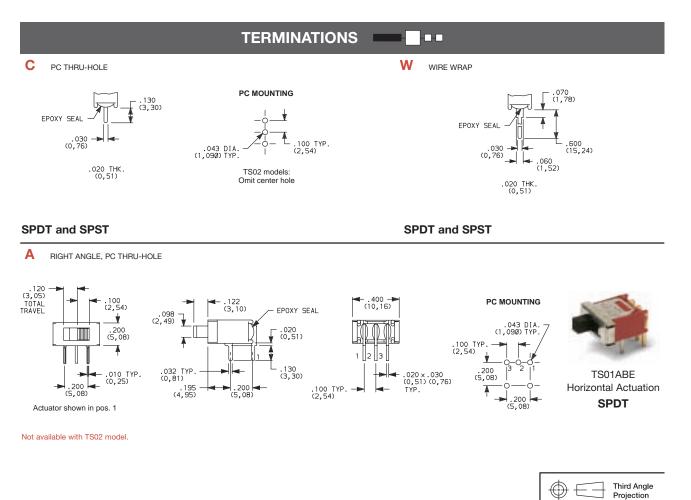
TS Series Tiny Slide Switches

Slide

SWITCH FUNCTION ----



All models R with all options when ordered with G, L, M, Q, R or S contact material. TS02 model not available with A terminations.





Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

TS Series Tiny Slide Switches

CONTACT MATERIAL

OPTION CODE	CONTACT TERMINAL MATERIAL PLATING		RATINGS			
В	B GOLD ¹		LOW LEVEL/DBY			
Р	GOLD	MATTE-TIN 6		0.4 VA MAX. @ 20 V AC OR DC MAX.		
Q	SILVEB 4,5	GOLD ³		TS01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC.		
SILVER 4,5		MATTE-TIN ⁶	POWER	TS02, TS03 MODELS: 1 AMP @ 120 V AC OR 28 V DC.		
G	GOLD OVER	GOLD ³ MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT OR POWER	TS01 MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC.		
R	SILVER ^{2,3}			TS02, TS03 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC.		

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* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

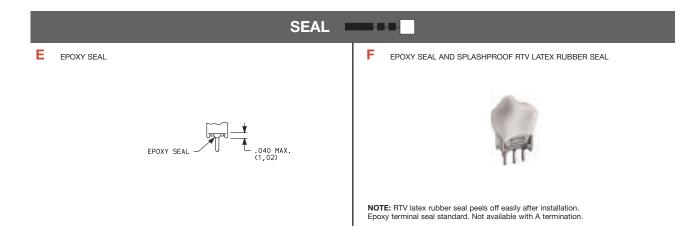
- ² END CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate
- over nickel plate.
- ⁴ END CONTACTS: Coin silver, silver plated.
- ⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate

All models $_{_{\odot}}$ \ref{all} \ref{all}^{\otimes} with all options when ordered with G, L, M,S or R contact material. B contact material standard with A and W terminations.

Q contact material standard with C terminations.

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.





Third Angle