

Pushbutton Switches, Tiny, Part Number Matrix

Material Specifications:

Contacts: Gold – gold plate, silver- silver plate Case Material: High temperature polyester

Actuator Material: Polyamide

Terminals/Fixed Contacts: Tin lead plate Terminal Seal: SP epoxy, DP epoxy optional

Environmental Specifications:

Operating Temperature: -22°F to + 149°F

 $(-30^{\circ}C \text{ to } + 65^{\circ}C)$

Storage Temperature: -22°F to + 149°F

 $(-30^{\circ}C \text{ to } + 65^{\circ}C)$

Typical Performance Characteristics:

Contacts Rating: Gold 0.4 VA Max. @ 20 VDC or peak AC

Silver: 1A @ 125 VAC or 28 VDC resistive

Initial Contact Resistance: 20 Milliohms max.

Contact Timing: Break-before-make

Insulation Resistance: 1,000 Megohms @ 500 VDC min.

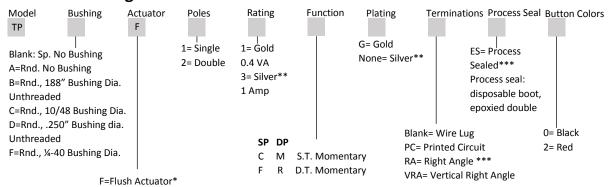
Dielectric Strength: 1,000 Volts @ sea level

Actuation Force: 500 to 400 Grams Plunger/Actuator Travel: 030" (.762)

Life Expectancy: See Below

Note: Hardware included with switches

Part Numbering Matrix:



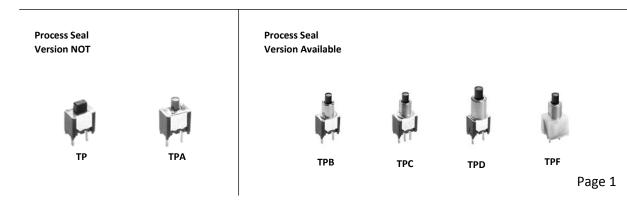
- * Available with "B" and "C" bushing only
- ** Silver available only in wire lug and PC termination
- *** Right angle, ES available with "B" and "C" bushing only
- **** Available only in single pole

Application Note:

For 3 pole and 4 pole, refer to pages D22 and D24... "MP Series" For surface mount termination, refer to pages D3-D5... "TSP Series"

ES switches provided with disposable boot used only during cleaning operation

TP Series Life	Expectancy	tancy Chart				
Pushbuttons	1 Pole	2Pole				
0.4 (gold Plate)	100,000	80,000				
1A (Silver Plate)	60,000	50,000				



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Date: 30-Aug-2018

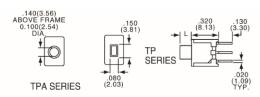
Dimensions in millimetres unless otherwise specified

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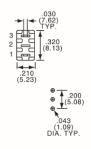


Pushbutton Switches, Tiny, Straight or Right Angle, Single or Dual Actuators

See Page 1 for Product Specifications

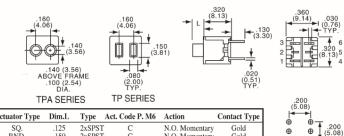


Model	Actuator Type	Dim.L Type	Act. Code P. M6	Action	Contact Type	
TP11CGPC(*)	SQ.	.125 SPST	C	N.O. Momentary	Gold	
TP11FGPC(*)	SQ.	.125 SPDT	F	Momentary	Gold	
TPA11CGPC(*) RND.	.150 SPST	C	N.O. Momentary	Gold	
TPA11FGPC(*) RND.	.150 SPDT	F	Momentary	Gold	
(*) Specify button color by adding suffix number: (0) Black, (2) Red.						
Note: No cente	er terminal on "C"	action switch.				





TPA11CGPC0



Model Actuator Type
 TP21CCGPC(*)
 SQ.
 .125
 2xSPST
 C

 TPA21CCGPC(*)
 RND.
 .150
 2xSPST
 C

 TPA21FGPC(*)
 RND.
 .150
 2xSPDT
 C

 TPA21FGPC(*)
 RND.
 .150
 2xSPDT
 F

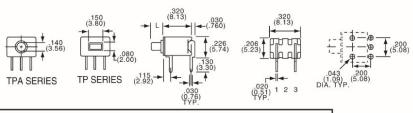
 **(*)
 Specify button color by adding suffix number: (0) Black, (2) Red.

 Note: No center terminal on "C" action switch.
 N.O. Momentary N.O. Momentary Momentary Gold Gold Gold



SPST/SPDT (DUAL)





Model	Actuator Type	Dim.L	Type	Act. Code P. M6	Action	Contact Type
TP11CGRA(*)	SQ.	.125	SPST	С	N.O. Momentary	Gold
TP11FGRA(*)	SQ.	.125	SPDT	F	Momentary	Gold
TPA11CGRA(*)	RND.	.150	SPST	C	N.O. Momentary	Gold
TPA11FGRA(*)	RND.	.150	SPDT	F	Momentary	Gold

SPST/SPDT TPA11CGRA



TP11CGRA

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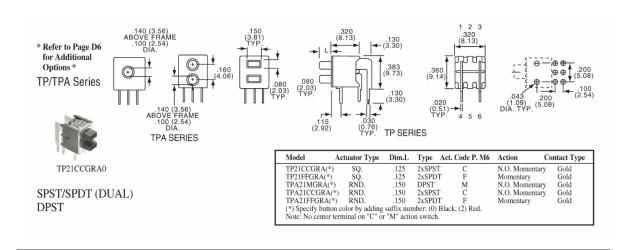
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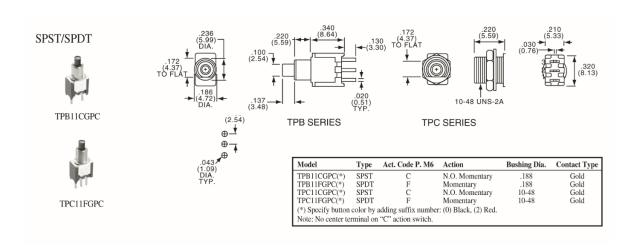


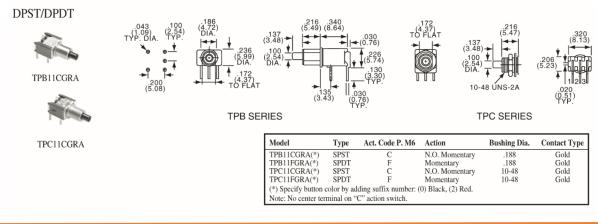
Pushbutton Switches, Tiny, Straight or Right Angle, Single or Dual Actuators

See Page 1 for Product Specifications



Pushbuttons, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushings





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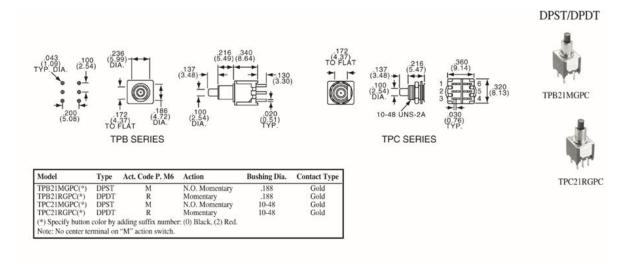
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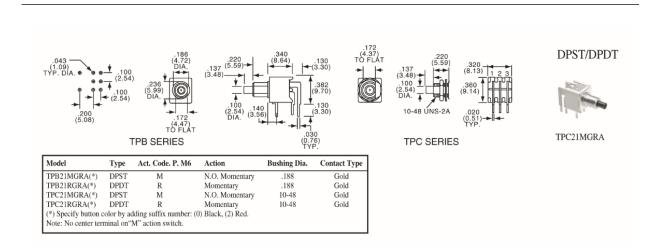
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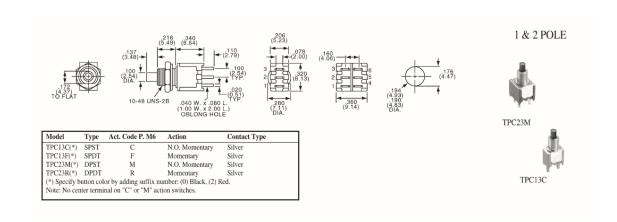


Pushbuttons, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushings

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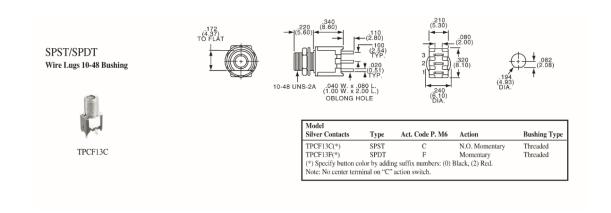
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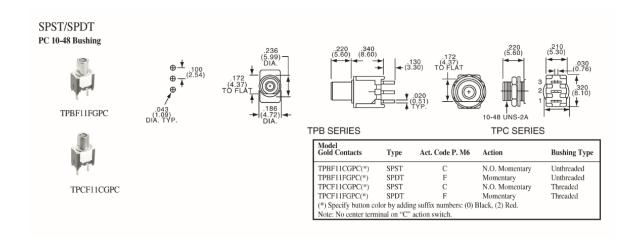
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For Email, phone or live chat, go to: www.te.com/help

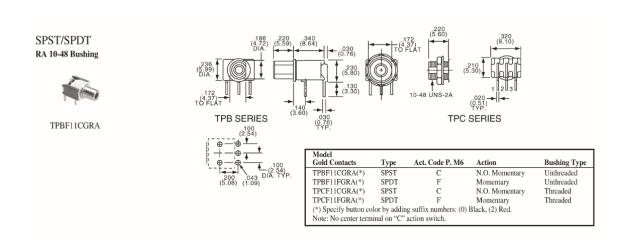


Pushbutton Switches, Tiny, Straight or Right Angle Flush Actuator

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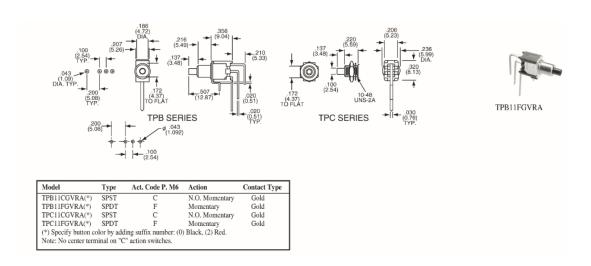
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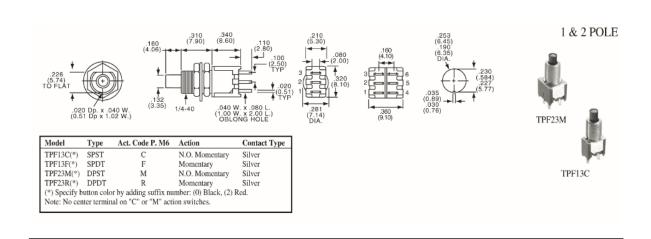
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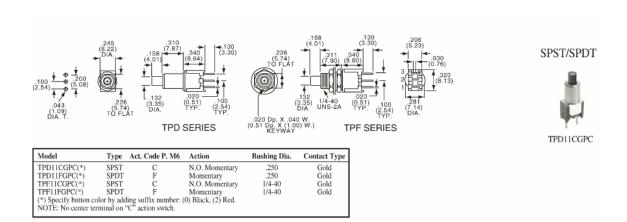


Pushbuttons, Tiny, Vertical Right Angle, Unthreaded or 10-48 Bushings See Page 1 for Product Specifications



Pushbuttons, Tiny, Vertical, Unthreaded, or 1/4 - 40 Bushings





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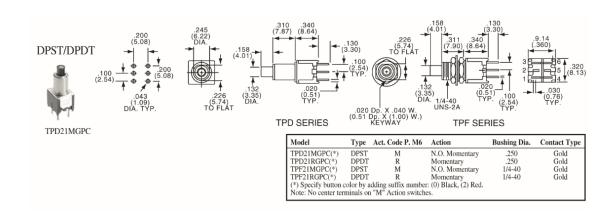
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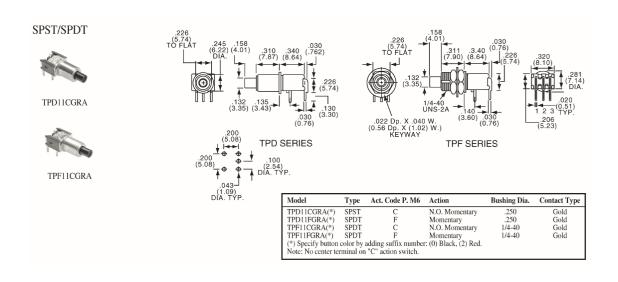
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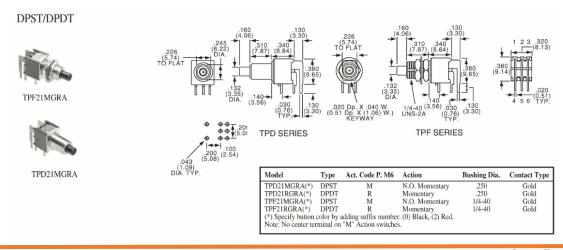
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Pushbutton Switches, Tiny, Vertical or Right Angle, Unthreaded ¼ to 40 Bushing







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