### Subminiature washable rocker switches





### **DISTINCTIVE FEATURES**

Process sealed
Single piece case
Front and rear sealing
Wide variety of contact materials
Same PCB layout as TL, TP and TG subminiature switches



### **ENVIRONMENTAL SPECIFICATIONS**

- Operating temperature : -30 °C to +85 °C (-22 °F to +185 °F)
- Moisture: 21 days 95 % (NFC 20-603 IEC 68-2-3)



## **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load :
- gold plated contacts: 0.4 VA 20 V max. AC or DC
- silver plated contacts : 0.5 A 48 V max. AC or DC
- $\bullet$  Minimum load : 10 mA 50 mV 10  $\mu A$  5 VDC
- Contact resistance : 20 m $\Omega$  max.
- Insulation resistance : 1,000 M $\Omega$  min. at 500 VDC
- Dielectric strength:
   1,000 Vrms 50 Hz min. between terminals and frame
   500 Vrms 50 Hz min. between terminals
- Electrical life at full load :

Contacts	Number of cycles	
	2 positions	3 positions
Gold plated	60,000	30,000
Silver plated	20,000	10,000



### **GENERAL SPECIFICATIONS**

- Strength of terminals : pull-out force 10 N max
- Cleaning : solvents or water + detergent
- Wave soldering: 260 °C (500 °F) 5 sec.



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## **MATERIALS**

- Case : PBT
- Actuator : polyamide
- Contacts and terminals:
- 0: brass, gold plated
- 1: brass, silver plated
- 3: brass, gold plated (1.27 micron gold)
- 8 : contact brass, gold plated + tin plated terminals
- 9: contact brass, gold plated (1.27 micron gold)
- + tin plated terminals
- Terminal seal : epoxy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



### PANEL CUT-OUT







With small rocker

With large rocker

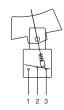


### **TERMINALS**



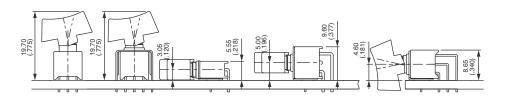


# **ELECTRICAL FUNCTIONS**





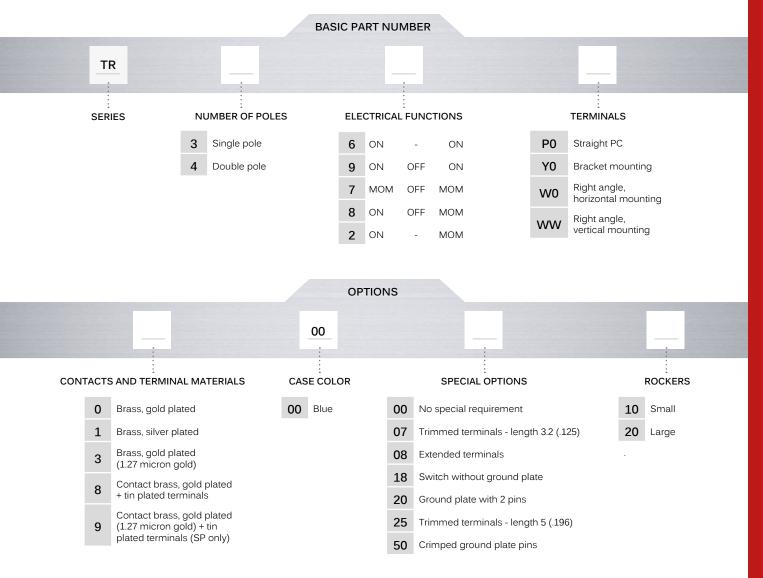
## **PCB MOUNTING**



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### **BUILD YOUR PART NUMBER**





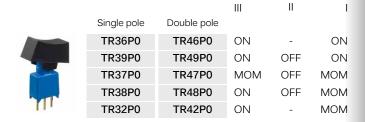
### **ABOUT THIS SERIES**

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.

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#### STRAIGHT PC TERMINALS: TR..P0



### STRAIGHT TERMINALS BRACKET MOUNTING: TR..Y0



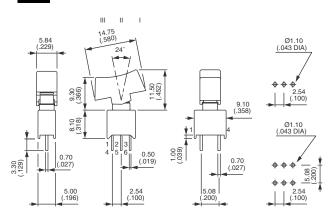
### RIGHT ANGLE TERMINALS HORIZONTAL MOUNTING: TR..WO

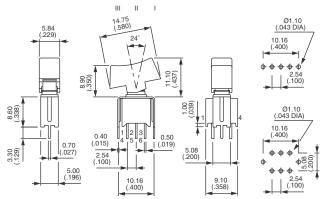


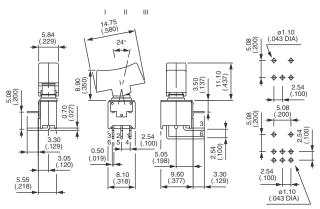
### RIGHT ANGLE TERMINALS VERTICAL MOUNTING: TR..WW

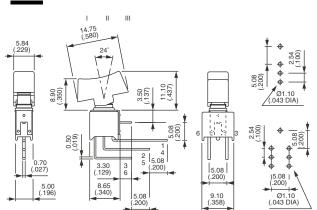


<sup>\*</sup>Functions 2 and 8: reversed connection available. Consult factory.

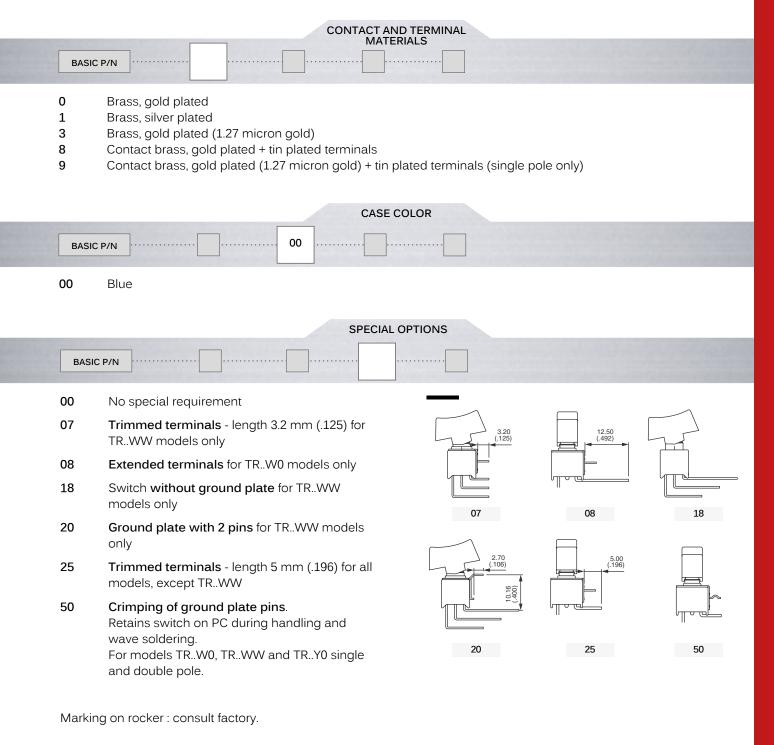








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