## Tiny washable momentary pushbutton switches

Distinctive features and specifications

UG1006-A





### Process sealed

- Single piece case
- O-ring seal between actuator and bushing
- Epoxy sealed terminals
- Wide variety of contact materials
- □ Same PCB layout as TL, TR and TG tiny switches

#### **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load :
   gold plated contacts : 0,4VA 20V max. AC or DC
  - silver plated contacts: 0,5A 48V max. AC or DC
- Minimum load: 10mA 50mV 10µA 5VDC
- Contact resistance :  $50 \text{ m}\Omega$  max.
- Insulation resistance :  $1.000 \text{ M}\Omega$  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:
  - gold plated contacts: 60.000 cyclessilver plated contacts: 20.000 cycles

#### **GENERAL SPECIFICATIONS**

- Total travel :
  - function 2 : 1 mm (.039) - function 3 : 0,8 mm (.031)
- Strength of terminals : pull-out force 10N max.
- Operating temperature : -30°C to +85°C
- Moisture: 21 days 95 % (NFC 20-603 IEC 68-2-3)
- Cleaning: solvents or water + detergent
- Wave soldering: 260°C 5 sec.

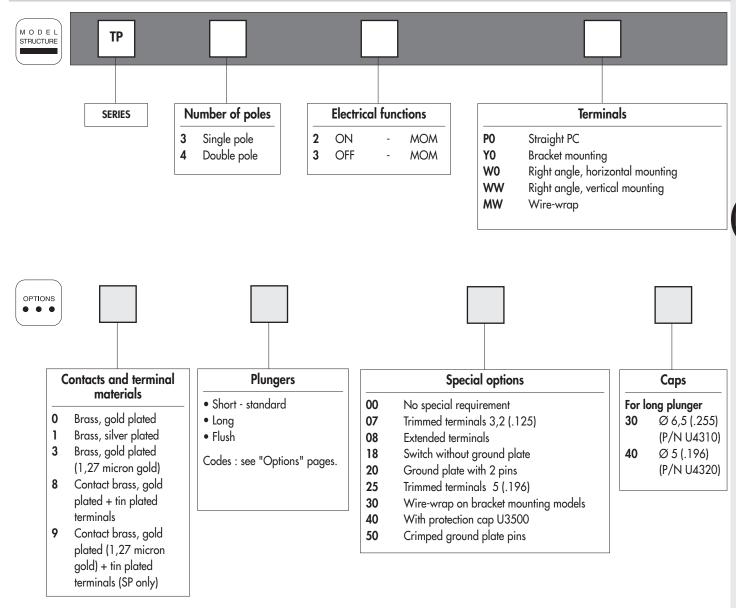
#### **MATERIALS**

- Case: PBT
- Actuator : polyamide, glass filled
- 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

В

## Tiny washable momentary pushbutton switches

**Overview** 



#### **ABOUT THIS SERIES**

On the following pages, you will find successively:

- model structure of switches
- options in the same order as in above chart

**Dimensions**: first dimensions are in mm while inches are shown as bracketted numbers.



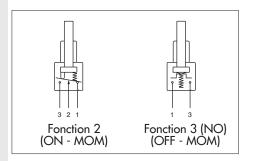
**NOTICE**: please note that not all combinations of above numbers are available. Refer to the following pages for further information.



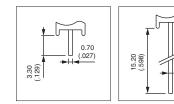
Packaging unit: 100 pieces, except for models with WW terminals (50 pieces).

## Tiny washable momentary pushbutton switches





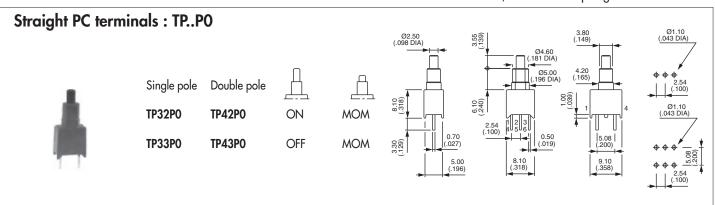
- Straight PC, right angle or wire-wrap terminals
- 1 and 2 pole configurations



MODEL STRUCTURE



Shown in function 2, with standard plunger



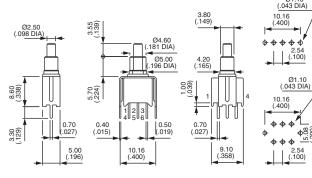
Function 3 has two terminals only (3 and 1) per pole

### Straight terminals - bracket mounting: TP..YO



Single pole Double pole
TP32Y0 TP42Y0 ON
TP33Y0 TP43Y0 OFF

MOM MOM



Function 3 has two terminals only (3 and 1) per pole

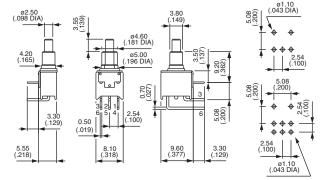
### Right angle terminals - horizontal mounting: TP..WO



Single pole Double pole

TP32W0 TP42W0 ON MOM

TP33W0 TP43W0 OFF MOM



Function 3 has two terminals only (3 and 1) per pole

B-10



## Tiny washable momentary pushbutton switches

Shown in function 2, with standard plunger



TP32WW

TP33WW



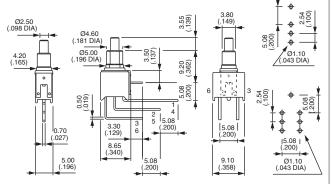
Single pole Double pole

TP43WW

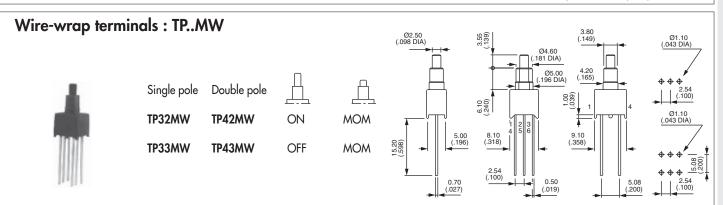
TP42WW ON

OFF

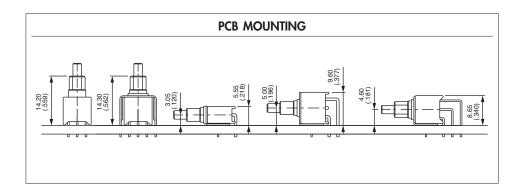
MOM MOM



Function 3 has two terminals only (3 and 1) per pole



Function 3 has two terminals only (3 and 1) per pole



#### **CAP FOR PCB PROCESSING**

Provide additional protection during PCB processing.

Supplied separately. For cap mounted on the switch, see special option 40.

Material: vinyl

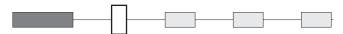


U3502

## Tiny washable momentary pushbutton switches

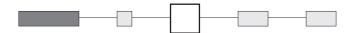


#### **CONTACT AND TERMINAL MATERIALS**

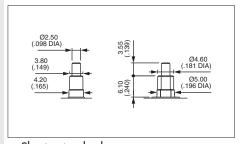


- Brass, gold plated 0 1
- Brass, silver plated Brass, gold plated (1,27 micron gold) 3
- Contact brass, gold plated + tin plated terminals
- 8 9 Contact brass, gold plated (1,27 micron gold) + tin plated terminals (single pole only)

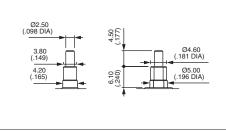
### **PLUNGERS**



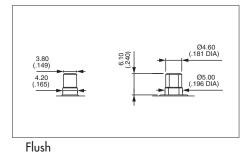
Standard plunger colour is black.







Long With blue With black case case 35 85



With black case 82

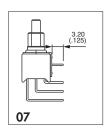
#### **SPECIAL OPTIONS**

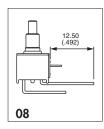


00 No special requirement

Trimmed terminals - length 3,2 mm (.125) for TP..WW models only 07

80 Extended terminals for TP..WO models only









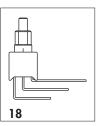
## Tiny washable momentary pushbutton switches

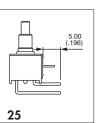
## **SPECIAL OPTIONS** (continued)

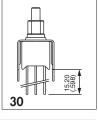
- 18 Switch without ground plate for TP..WW models only
- 20 Ground plate with 2 pins for TP..WW models only
- 25 Trimmed terminals length 5 mm (.196) for all models, except TP..WW
- 30 Wire-wrap terminals on models with mounting bracket
- With cap U3500 mounted over plunger and bushing Further protects the switch during PCB processing
- Crimping of ground plate pins.

  Retains switch on PC during handling and wave soldering.

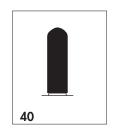
  For models TP..WO, TP..WW and TP..YO single and double pole.

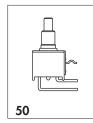






20

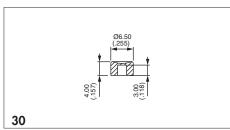


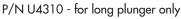


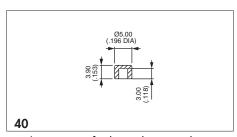
### **CAPS**



### Blank Without cap







P/N U4320 - for long plunger only

To order caps separately, use their part number (U...).

Cap colours	
Replace "0" by	
number	
1	blue
1/4	dark blue
2	black
3	green
4	grey
5	yellow
6	red
7	ivory
7/1	white
9	orange

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