

TR series

Tiny washable rocker switches

Distinctive features and specifications

UG1410A



☐ Sealed

- Single piece case
- O-ring seal between actuator and bushing
- Epoxy sealed terminals

☐ Wide variety of contact materials

☐ Same PCB layout as tiny toggle (TL), pushbutton (TP) and slide switches (TG)

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 - 10 μ A 5VDC
- Contact resistance : 20 m Ω max.
- Insulation resistance : 1.000 M Ω min. at 500VDC
- 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

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

GENERAL SPECIFICATIONS

- 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.

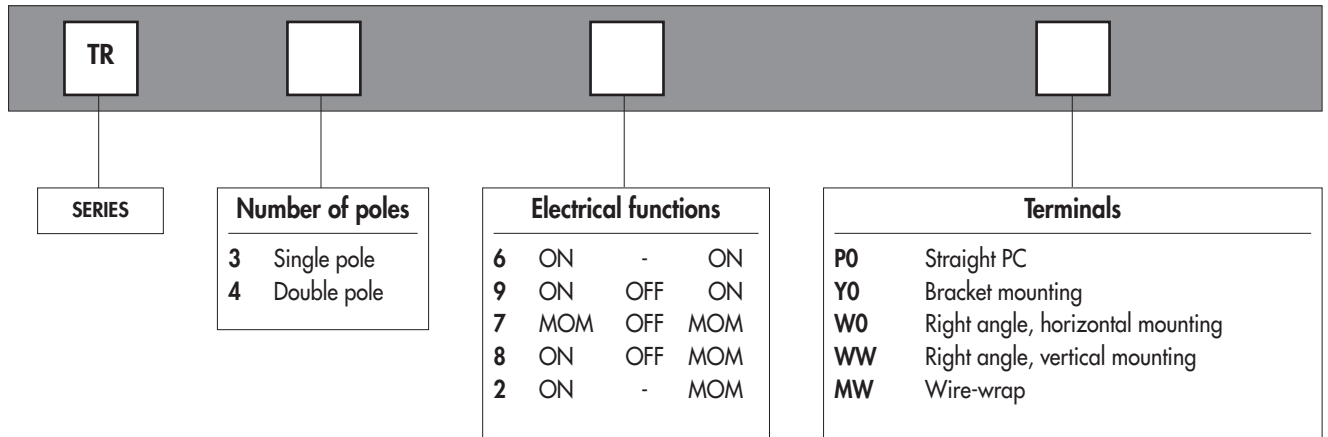
The company reserves the right to change specifications without notice.

TR series

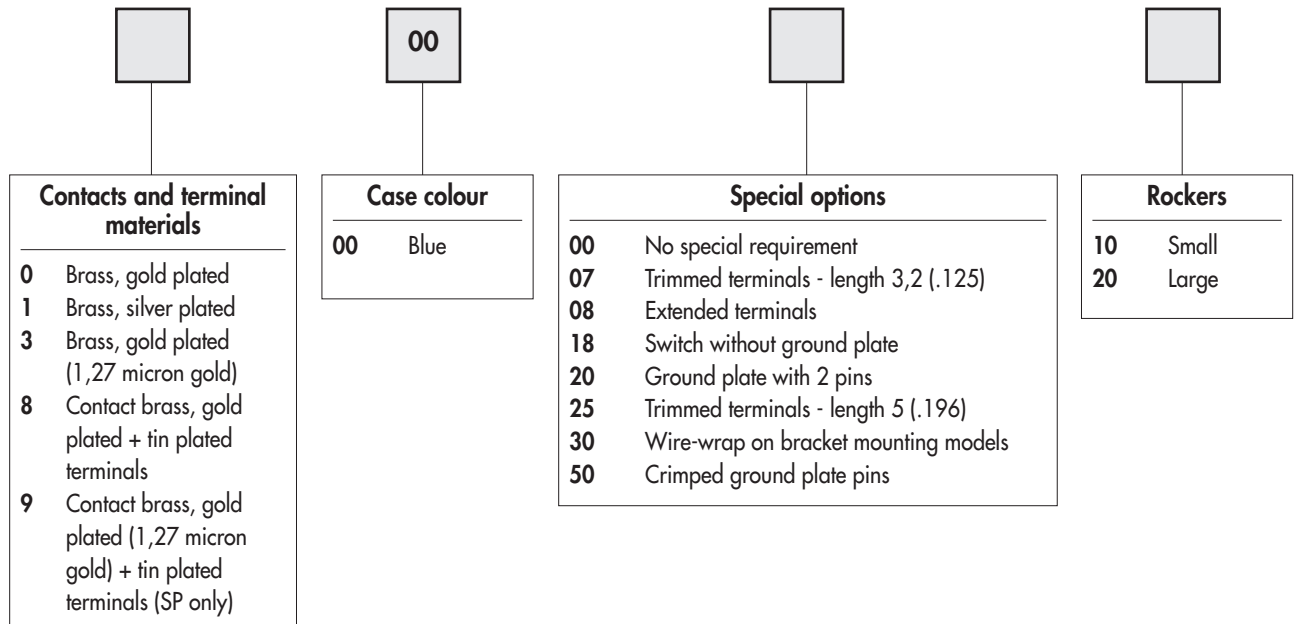
Tiny washable rocker switches

Overview

MODEL
STRUCTURE



OPTIONS



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 bracketed numbers.



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

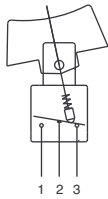


Packaging unit : 50 pieces.

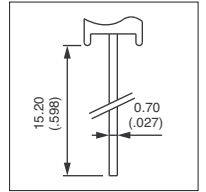
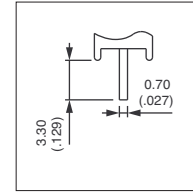
TR series

Tiny washable rocker switches

MODEL
STRUCTURE



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



MODEL
STRUCTURE



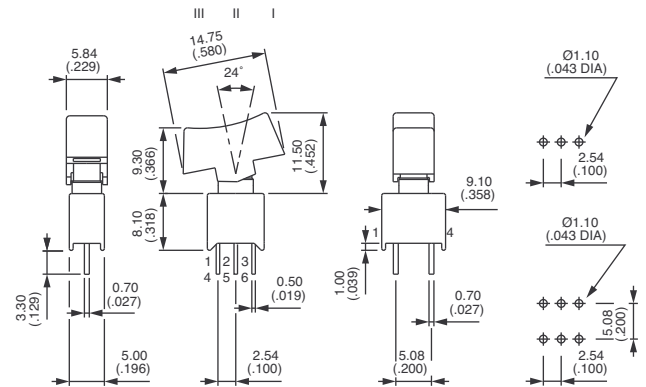
Shown with small rocker (code 10)

Straight PC terminals : TR..P0



Single pole	Double pole
TR36P0	TR46P0
TR39P0	TR49P0
TR37P0	TR47P0
TR38P0	TR48P0
TR32P0	TR42P0

III	II	I
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM

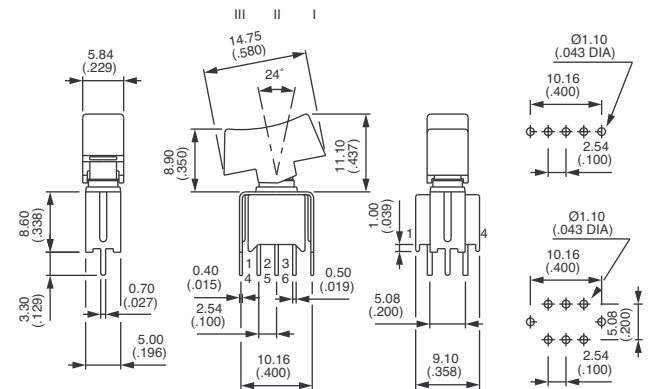


Straight terminals - bracket mounting : TR..Y0



Single pole	Double pole
TR36Y0	TR46Y0
TR39Y0	TR49Y0
TR37Y0	TR47Y0
TR38Y0	TR48Y0
TR32Y0	TR42Y0

III	II	I
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM

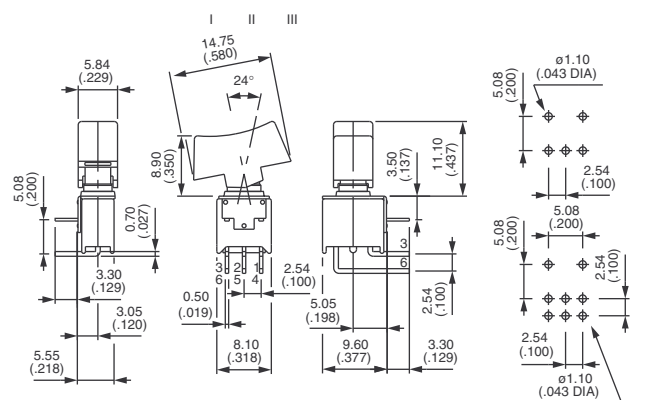


Right angle terminals - horizontal mounting : TR..W0



Single pole	Double pole
TR36W0	TR46W0
TR39W0	TR49W0
TR37W0	TR47W0
TR38W0	TR48W0
TR32W0	TR42W0

III	II	I
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
ON	-	MOM



Technical drawing of a mechanical assembly, showing three views: a front view (left), a top view (middle), and a side view (right). Dimensions are provided in inches (in) and millimeters (mm).

Front View (Left):

- Overall width: 5.84 (229)
- Overall height: 5.00 (.196)
- Top flange thickness: 0.70 (.027)
- Bottom flange thickness: 0.50 (.019)
- Internal width: 3.30 (.129)
- Internal height: 8.65 (.340)
- Internal width: 3.00 (.120)
- Internal height: 5.08 (.200)

Top View (Middle):

- Overall width: 14.75 (.580)
- Overall height: 11.10 (.437)
- Top flange thickness: 8.90 (.350)
- Internal width: 3.50 (.137)
- Internal height: 5.08 (.200)
- Internal width: 2.50 (.100)
- Internal height: 5.08 (.200)
- Internal width: 1.40 (.055)
- Internal height: 5.08 (.200)

Side View (Right):

- Overall width: 9.10 (.358)
- Overall height: 5.08 (.200)
- Top flange thickness: 0.70 (.027)
- Bottom flange thickness: 0.50 (.019)
- Internal width: 3.30 (.129)
- Internal height: 8.65 (.340)
- Internal width: 3.00 (.120)
- Internal height: 5.08 (.200)

Detail View (Bottom Right):

- Overall width: 5.08 (.200)
- Overall height: 5.08 (.200)
- Top flange thickness: 0.70 (.027)
- Bottom flange thickness: 0.50 (.019)
- Internal width: 3.30 (.129)
- Internal height: 8.65 (.340)
- Internal width: 3.00 (.120)
- Internal height: 5.08 (.200)
- Internal width: 2.50 (.100)
- Internal height: 5.08 (.200)
- Internal width: 1.40 (.055)
- Internal height: 5.08 (.200)

III II I

14.75 (.580)

24°

5.84 (.229)

9.30 (.366)

8.10 (.318)

11.50 (.452)

8.10 (.318)

0.50 (.019)

2.54 (.100)

0.70 (.027)

15.20 (.598)

5.00 (.196)

1.00 (.039)

9.10 (.358)

0.70 (.027)

5.08 (.200)

Ø1.10 (.043 DIA)

2.54 (.100)

Ø1.10 (.043 DIA)

5.08 (.200)

2.54 (.100)

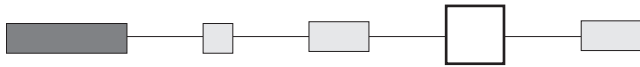
TR series

Tiny washable rocker switches

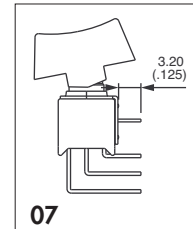
OPTIONS



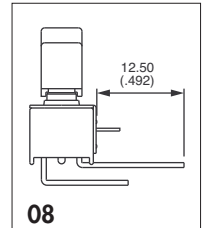
SPECIAL OPTIONS



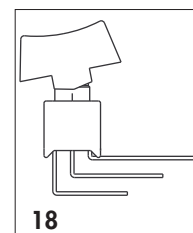
- 00** No special requirement
- 07** **Trimmed terminals** - length 3,2 mm (.125) for TR..WW models only
- 08** **Extended terminals** for TR..W0 models only
- 18** Switch **without ground plate** for TR..WW models only
- 20** **Ground plate with 2 pins** for TR..WW models only
- 25** **Trimmed terminals** - length 5 mm (.196) for all models, except TR..WW
- 30** **Wire-wrap terminals** on models with mounting **bracket**
- 50** **Crimping of ground plate pins.**
Retains switch on PCB during handling and wave soldering.
For models TR..W0, TR..WW and TR..Y0 single and double pole.



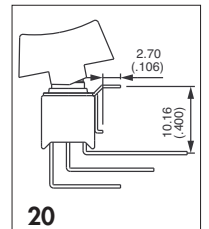
07



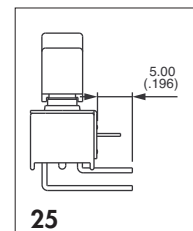
08



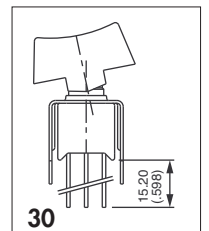
18



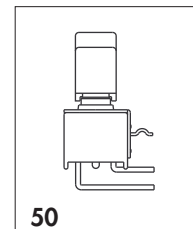
20



25



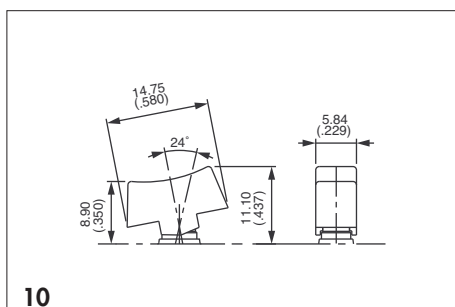
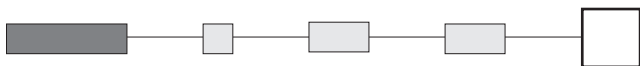
30



50

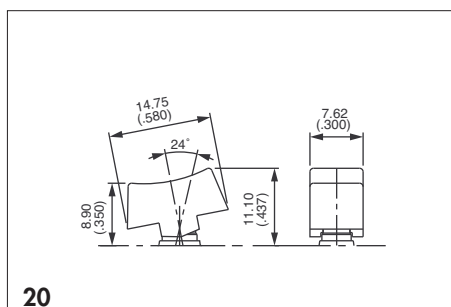
Marking on rocker : consult factory.

ROCKERS



10

Small



20

Large

Rocker 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