TR series

Tiny washable rocker switches

Distinctive features and specifications



- **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 - 10µA 5VDC
- Contact resistance : 20 mΩ max.
- Insulation resistance : 1.000 MΩ 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.

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Overview

MODEL STRUCTURE

TR			
SERIES	Number of poles	Electrical functions	Terminals

Number of poles

3	Single pole
4	Double pole

Electrical functions

6	ON	-	ON
9	ON	OFF	ON
7	MOM	OFF	MOM
8	ON	OFF	MOM
2	ON	-	MOM

Terminals

P0	Straight PC
Y0	Bracket mounting
W0	Right angle, horizontal mounting
WW	Right angle, vertical mounting
MW	Wire-wrap

OPTIONS

	00		
Contacts and terminal materials	Case colour	Special options	Rockers

Contacts and terminal materials

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 (SP only)

Case colour

00	Blue

Special options

00	No special requirement
07	Trimmed terminals - length 3,2 (.125)
08	Extended terminals
18	Switch without ground plate
20	Ground plate with 2 pins
25	Trimmed terminals - length 5 (.196)
30	Wire-wrap on bracket mounting models
50	Crimped ground plate pins

Rockers

10	Small
20	Large

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.

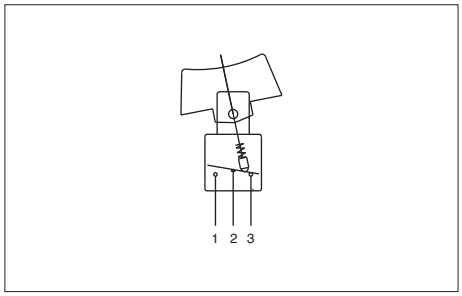
Packaging unit : 50 pieces.

D

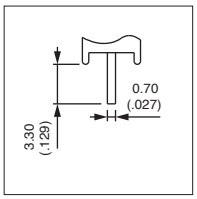
TR series

Tiny washable rocker switches

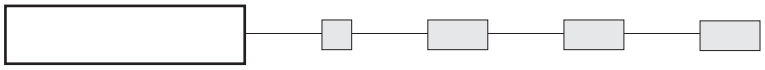
MODEL STRUCTURE



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



MODEL STRUCTURE



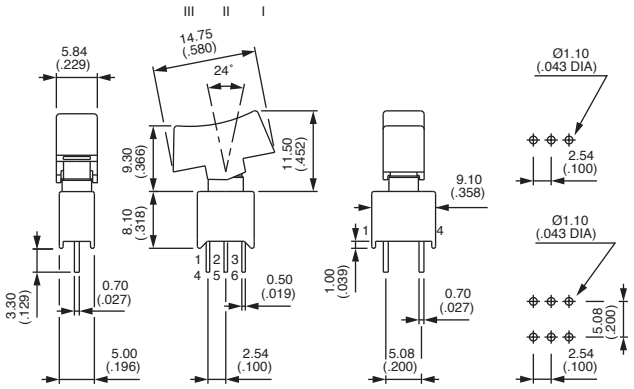
Shown with small rocker (code 10)

D

Straight PC terminals : TR..P0



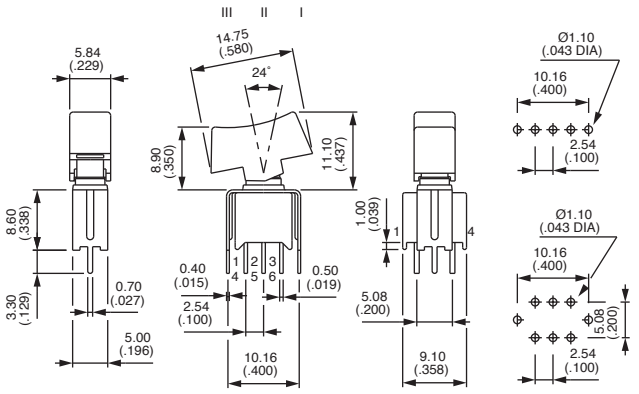
Single pole	Double pole	III	II	I
TR36P0	**TR46P0**	ON	-	ON
TR39P0	**TR49P0**	ON	OFF	ON
TR37P0	**TR47P0**	MOM	OFF	MOM
TR38P0	**TR48P0**	ON	OFF	MOM
TR32P0	**TR42P0**	ON	-	MOM



Straight terminals - bracket mounting : TR..Y0



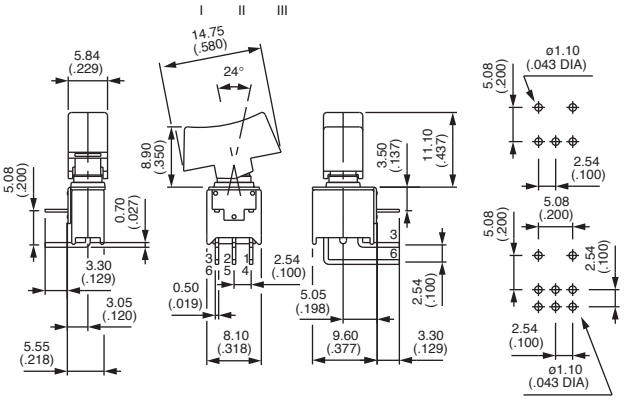
Single pole	Double pole	III	II	I
TR36Y0	**TR46Y0**	ON	-	ON
TR39Y0	**TR49Y0**	ON	OFF	ON
TR37Y0	**TR47Y0**	MOM	OFF	MOM
TR38Y0	**TR48Y0**	ON	OFF	MOM
TR32Y0	**TR42Y0**	ON	-	MOM



Right angle terminals - horizontal mounting : TR..W0



Single pole	Double pole	III	II	I
TR36W0	**TR46W0**	ON	-	ON
TR39W0	**TR49W0**	ON	OFF	ON
TR37W0	**TR47W0**	MOM	OFF	MOM
TR38W0	**TR48W0**	ON	OFF	MOM
TR32W0	**TR42W0**	ON	-	MOM



MODEL STRUCTURE

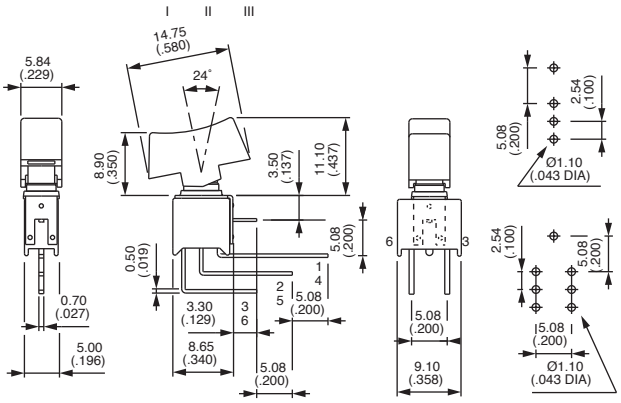
TR series

Tiny washable rocker switches

Right angle terminals - vertical mounting : TR..WW



Single pole	Double pole	III	II	I
TR36WW	**TR46WW**	ON	-	ON
TR39WW	**TR49WW**	ON	OFF	ON
TR37WW	**TR47WW**	MOM	OFF	MOM
TR38WW*	**TR48WW***	ON	OFF	MOM
TR32WW*	**TR42WW***	ON	-	MOM

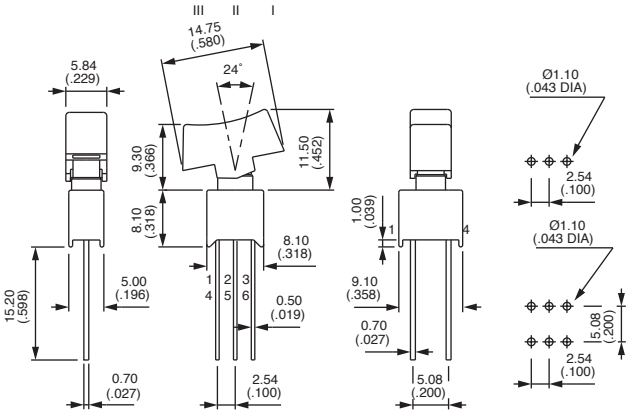


* Functions 2 and 8 : reversed connection available . Consult factory.

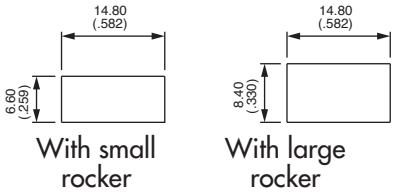
Wire-wrap terminals : TR..MW



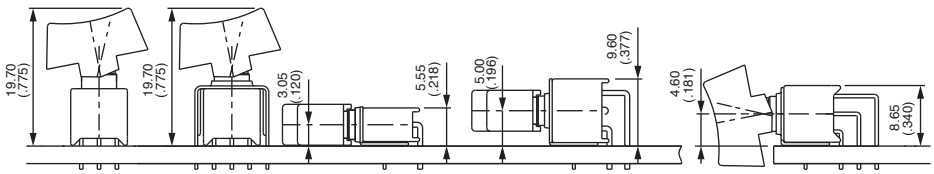
Single pole	Double pole	III	II	I
TR36MW	**TR46MW**	ON	-	ON
TR39MW	**TR49MW**	ON	OFF	ON
TR37MW	**TR47MW**	MOM	OFF	MOM
TR38MW	**TR48MW**	ON	OFF	MOM
TR32MW	**TR42MW**	ON	-	MOM



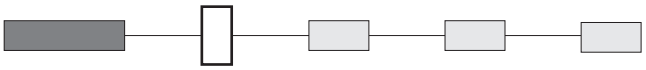
PANEL CUT-OUT



PCB MOUNTING

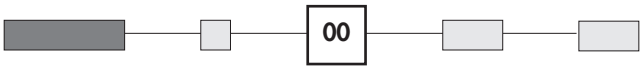


CONTACT AND TERMINAL MATERIALS



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 (single pole only)

CASE COLOUR



00	Blue

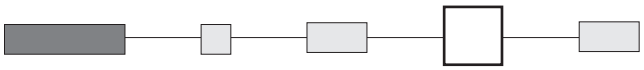
D

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

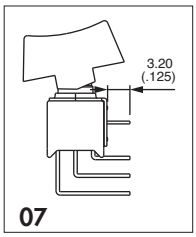
20 **Ground plate with 2 pins** for TR..WW models only

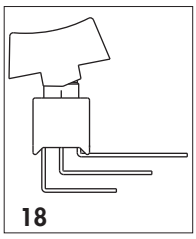
25 **Trimmed terminals** - length 5 mm (.196) for all models, except TR..WW

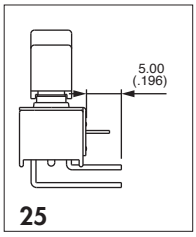
30 **Wire-wrap terminals** on models with mounting **bracket**

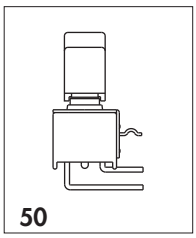
50 **Crimping of ground plate pins**.
Retains switch on PCB during handling and wave soldering.
For models TR..W0, TR..WW and TR..Y0 single and double pole.

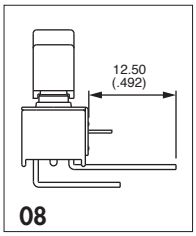
Marking on rocker : consult factory.

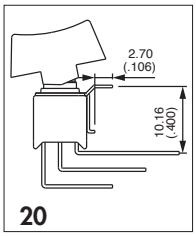


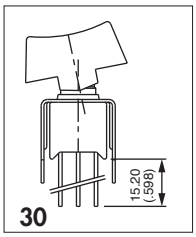




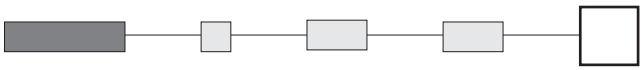


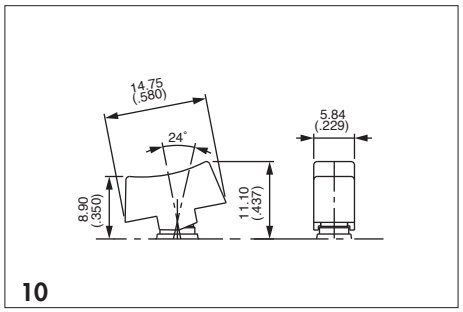




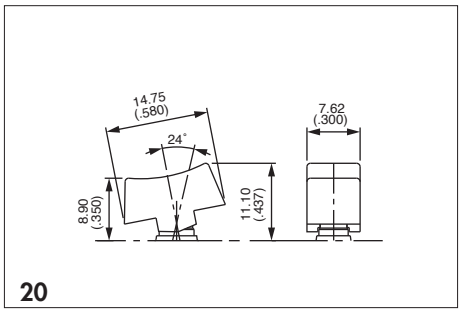


ROCKERS





Small



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