

Product Description

TR series offers extremely high switching reliability with the need of very little space. They can be arranged as single keys, in rows or key blocks. When arranged under an overlay, TR keyswitches should be combined with plungers.

The features at a glance

- Suitable for most common soldering methods:
 - Wave soldering bath for print versions
 - Reflow soldering (SMD)
 - Manual soldering
- 5,000,000 operations
- Actuation Force: 250gf, 350gf and 600gf



Specifications

Contact rating	42V AC/DC, 100mA
Contact resistance	100mΩ max.(Initial)
Insulation resistance	100MΩ bei 100V DC
Dielectric strength	250V DC, 50 Hz for the duration of 1 minute
Operating temperature	-40 °C to + 80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according to IEC 600 68-2-14 and 2-33
Mechanical life	5,000,000 operations
Solderability / Solder heat resistance PCB version	IEC 600 68-2-20
Solderability / Solder heat resistance SMD version	EN 61760-1 and DIN IEC 600-68-2-58
Flammability of materials	UL 94 HB
Water proofing	IP67
Actuation force	3.5N +/- 0.6N(Standard)
Mounting	on PC-board THT and SMD type

TR12		Dimensions		
Solder terminal for PCB, inward	<p>TR12H1</p>			<p>DRILLING PLAN</p>
Solder terminal for PCB, outward	<p>TR12H2</p>			<p>DRILLING PLAN</p>
SMD gullwing terminal	<p>TR12S</p>			<p>SMD SOLDERING PAD</p>

Switch + Plunger / Cap



TR12		Dimensions
Plunger for under Foil	PLG 11.5X6.5 	 DRILLING PLAN
CAP for under Foil	C12 	 SMD SOLDERING PAD
CAP for Legend	C11 	 DRILLING PLAN

Order information

TR12

TR12 series

H1

Mounting

- H1: Thru-hole(inward)
- H2: Thru-hole(outward)
- S: SMD

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Actuation Force

- 2: 250gf/ 2.5N
- 3: 350gf/ 3.5N (standard)
- 6: 650gf/ 6.5N

R

Packing

- None: Tube
- R: Tape & Reel

U

None: RoHS & REACH compliant (standard)

U: Halogen Free

Plunger/Cap codes

- PLG 11.5x6.5mm
- C11: 11mm Square(for Legend)
- C12: 11mm Square

Cap Color codes

- 00: Blue
- 02: Green
- 03: Light Grey
- 04: Yellow
- 05: Dark Grey
- 06: White
- 08: Red
- 09: Black
- 01: Frosted
- 11: Transparent