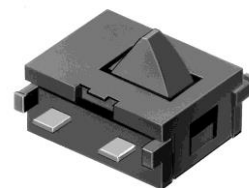


# Lever-type Detector Switches

## SW1AB-411 / -413 Series

### Features

- ◇Miniaturized for space saving design.
- ◇Superior reliability at micro-current by employing a sliding contact.
- ◇This is a compact detector switch which can be pressed either horizontally or vertically.
- ◇Reflow soldering is possible.



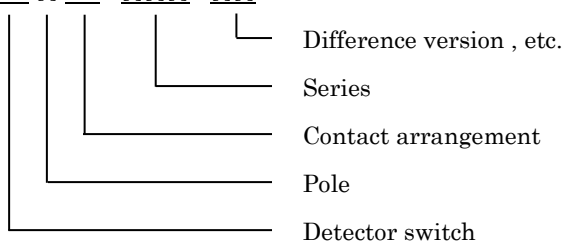
### Applications

- ◇Mechatronic detection for audio and VCR Digital camera FDD units.

Zoom

### Products Number System

SW [ ] AB - [ ][ ][ ] - [ ][ ]



Actual size

### Products Line

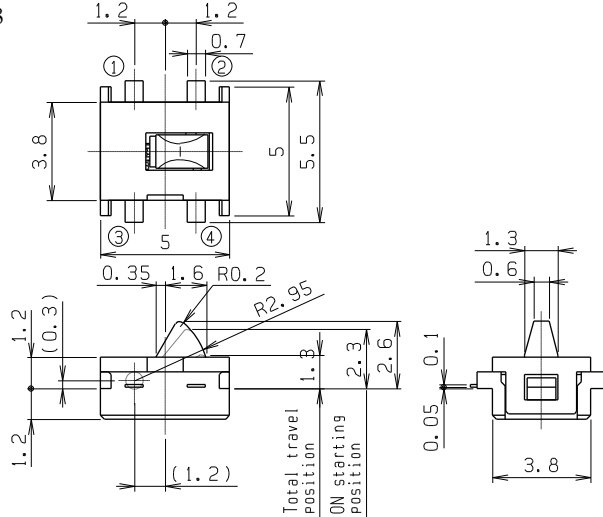
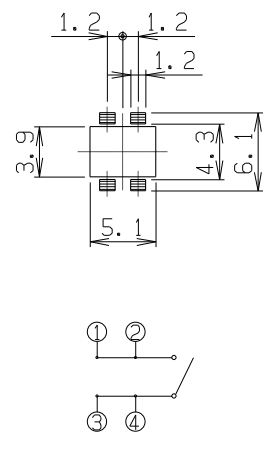
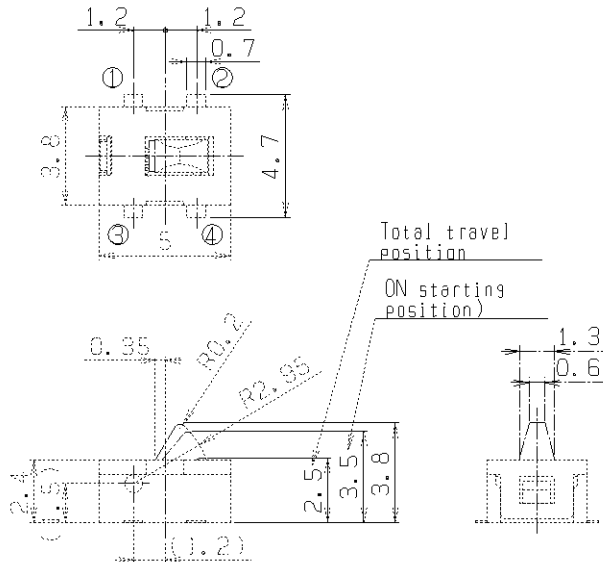
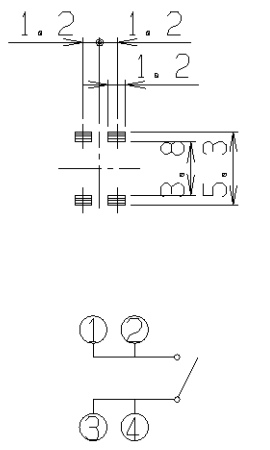
No	Products No	Pole	Position	Operating force	Quantity (pcs./reel)	Notes
1	SW1AB-411-T28	1	1	0.34N max.	2,800	
2	SW1AB-413-T29	1	1	0.35N max.	2,900	

### Typical Specifications

Item	SW1AB-411 Series	SW1AB-413 Series
<b>Ratings (max.)</b>	0.1 to 5mA 5V DC (Resistive load)	0.1 to 5mA 5V DC (Resistive load)
<b>Contact resistance</b>	500 milliohm max.	1 ohm max.
<b>Insulation resistance</b>	100 megohm min. 100V DC	100 megohm min. 100V DC
<b>Withstanding voltage</b>	100V AC for 1min.	100V AC for 1min.
<b>Operating life with load</b>	50,000 cycles	50,000 cycles

## □ Dimensions

Unit : mm

No	Style	P.C.B reference Land Dimensions Circuit diagram (TOP VIEW)
1	SW1AB-411-T28 	
2	SW1AB-413-T29 	

## □ Notes

- The appearance and specifications of the product may be modified to improve its performance without prior notice.
- This catalog shows only outline specifications. When using the product, please obtain formal specifications.
- Please see appendix [Cautions in Using Switches].
- This switch is not washable.
- Soldering shall be done with actuator at free position and take care not to attach flux on plastic portion.
- Note that if the stress is applied to the terminals during soldering, they might cause deformation and defects in electrical performance.
- In manual soldering, consideration should be given to apply the soldering iron to the tip of the terminal so that unusual pressure is not applied to the terminal.
- In case circuit and software design consideration against chattering and bouncing shall be taken as below.
  - Read a few times. (Ex. 5ms for 5 times)
  - Set delay time.
  - Set integral circuit.
- As to threshold voltage, center setting is recommended.
- Care shall be taken not to apply stress to the body of switch as it may affect the performance.
- Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.