

# Lever-type Detector Switches

## SW[ ]AB-252 / -253 / -254 / -258 Series

### Features

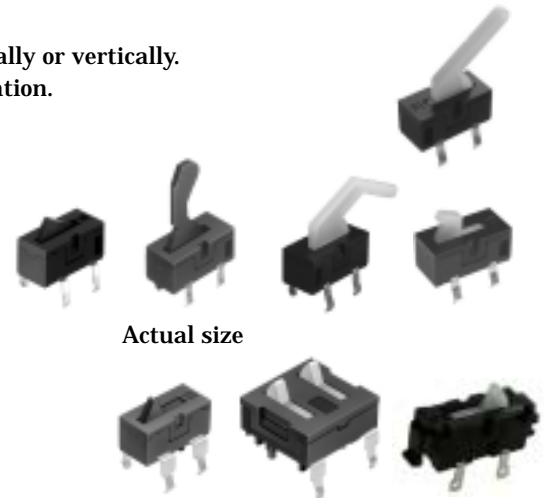
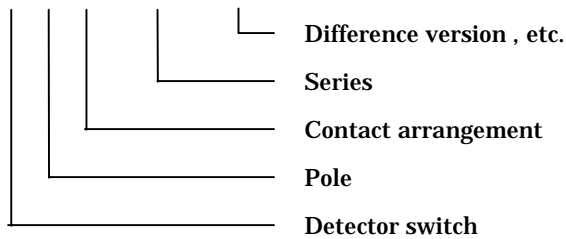
- ◁Miniaturized for space saving design.
- ◁Superior reliability at micro-current by employing a sliding contact.
- ◁This is a compact detector switch which can be pressed either horizontally or vertically.
- ◁A wide variety of operation components is possible based on the application.

### Applications

- ◁Mechatronic detection for audio and VCR CD-ROM DVD units.

### Products Number System

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



### Products Line

No	Products No	Pole	Position	Operating force	Notes
1	SW1AB-252S	1	1	0.4N max.	2 operating direction is possible.
2	SW1AB-252-3S	1	1	0.3N max.	
3	SW1AB-252-4S	1	1	0.35N max.	
4	SW1AB-252-8S	1	1	0.35N max.	3 operating direction is possible.
5	SW1AB-252-9S	1	1	0.4N max.	2 operating direction is possible.
6	SW1AB-252-12S	1	1	0.4N max.	2 operating direction is possible.
7	SW1AB-252-13S	1	1	0.25N max.	2 operating direction is possible.
8	SW1AB-253-9	1	1	0.4N max.	2 operating direction is possible.
9	SW2AB-254-9	2	1	0.4N max.	2 operating direction is possible.
10	SW1AB-258-9	1	1	0.4N max.	2 operating direction is possible.

Notes : The above 1 to 7 are the lever-variation. (Same body)  
 The above 8 to 10 are the body-variation. (Same lever)

### Typical Specifications

Item	Specification
Ratings (max.)	0.5 to 10mA 5V DC (Resistive load)
Contact resistance	1 ohm max.
Insulation resistance	100 megohm min. 100V DC
Withstanding voltage	100V AC for 1min.
Operating life with load	100,000 cycles

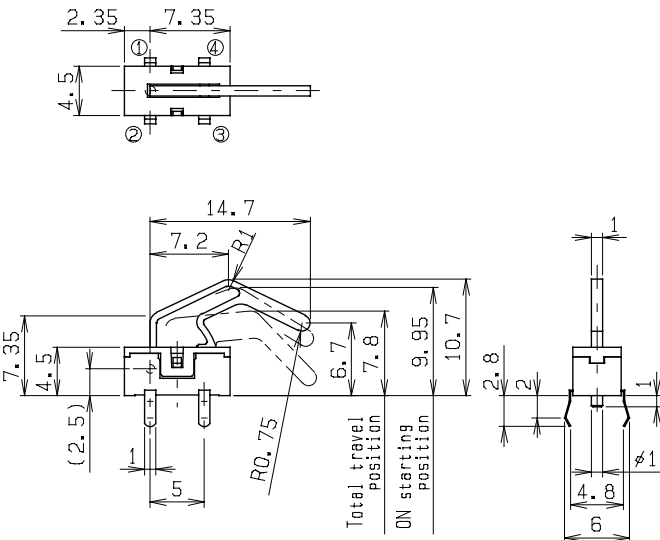
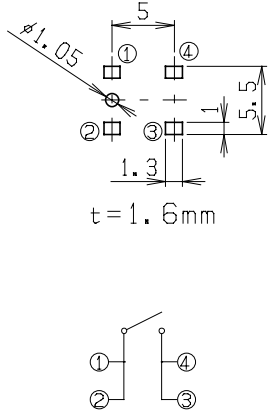
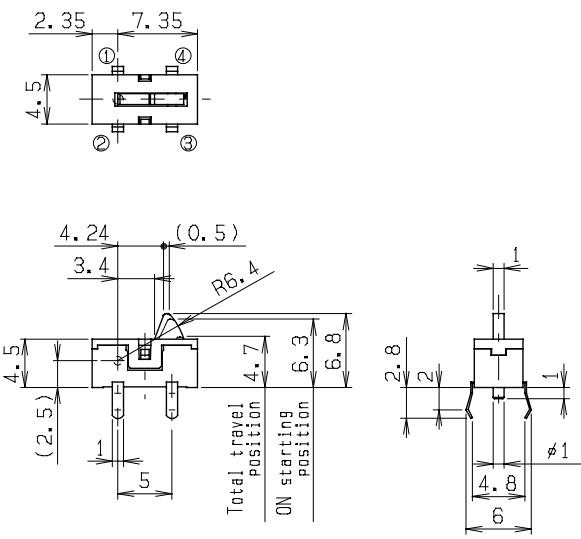
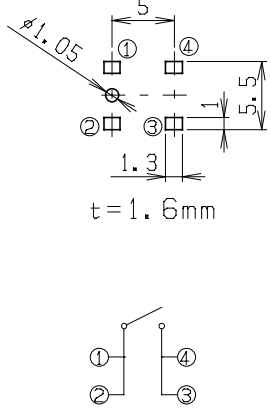
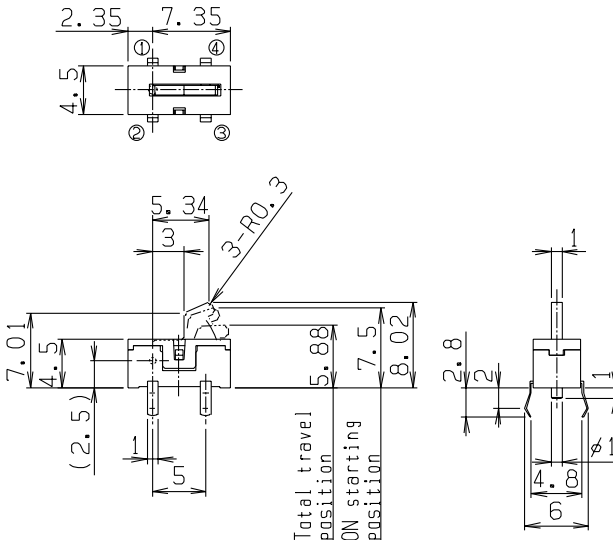
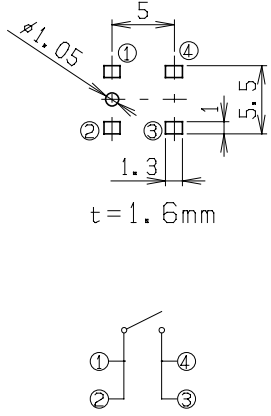
Dimensions

Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
1	<p>SW1AB-252S</p> <p>Variation of lever</p>	<p>t = 1.6mm</p>
2	<p>SW1AB-252-3S</p> <p>Variation of lever</p>	<p>t = 1.6mm</p>
3	<p>SW1AB-252-4S</p> <p>Variation of lever</p>	<p>t = 1.6mm</p>

Dimensions

Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
4	<p>SW1AB-252-8S</p>  <p>Variation of lever</p>	
5	<p>SW1AB-252-9S</p>  <p>Variation of lever</p>	
6	<p>SW1AB-252-12S</p>  <p>Variation of lever</p>	

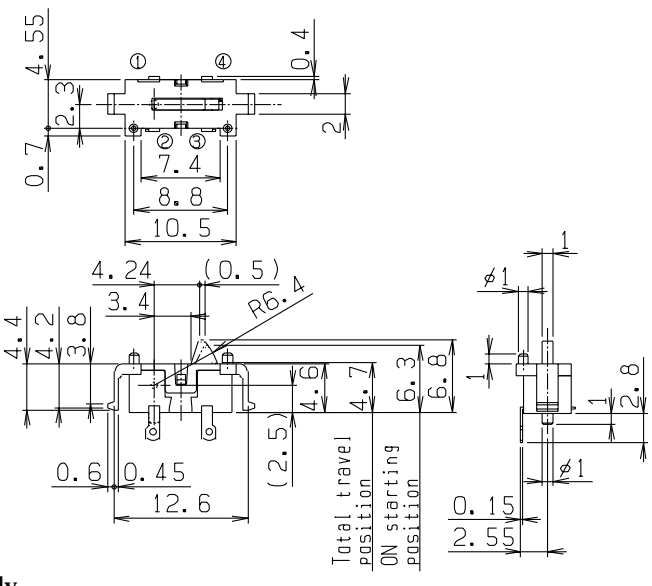
Dimensions

Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
7	<p>SW1AB-252-13S</p> <p>Variation of lever</p>	<p>t = 1.6mm</p>
8	<p>SW1AB-253-9</p> <p>Variation of body</p>	<p>t = 1.6mm</p>
9	<p>SW2AB-254-9</p> <p>Variation of body</p>	<p>t = 1.6mm</p>

## Dimensions

Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
10	<p>SW1AB-258-9</p>  <p>Variation of body</p>	

## □ 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.