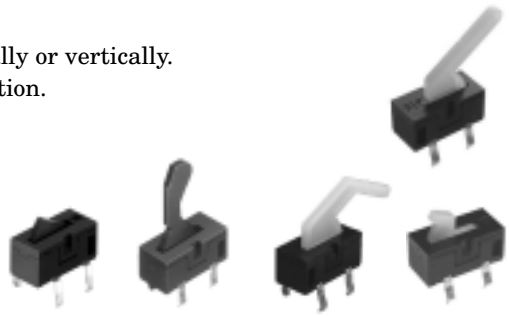
Lever-type Detector Switches
SW[ ]AB-252 / -253 / -254 / -258 Series

[] 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.



Actual size

[] Applications

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

[] Products Number System

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

- [ ][ ] — Difference version , etc.
- [ ][ ] — Series
- [ ] — Contact arrangement
- [ ] — Pole
- SW — Detector switch

[] Products Line

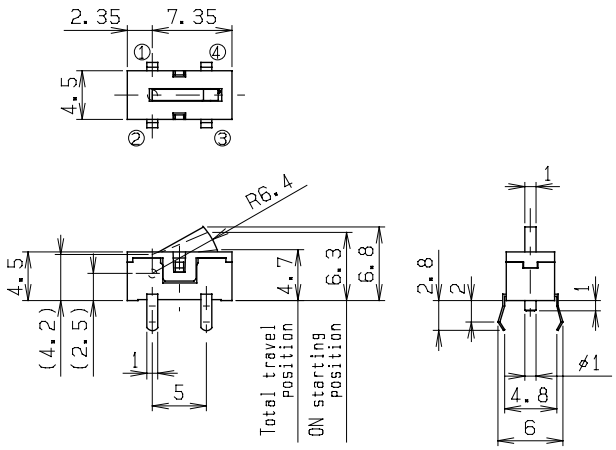
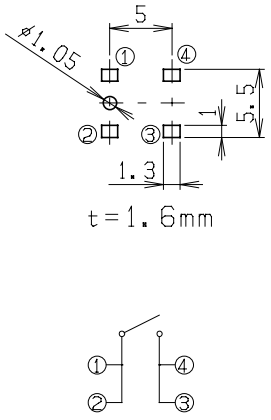
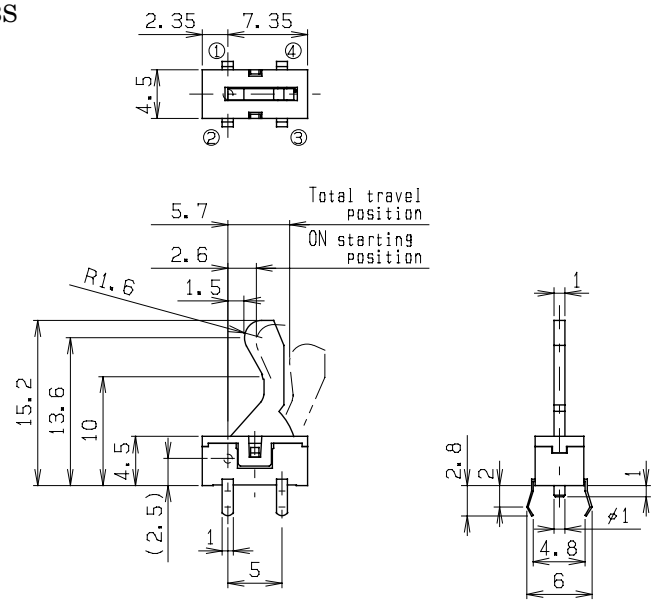
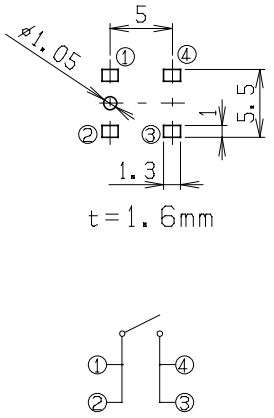
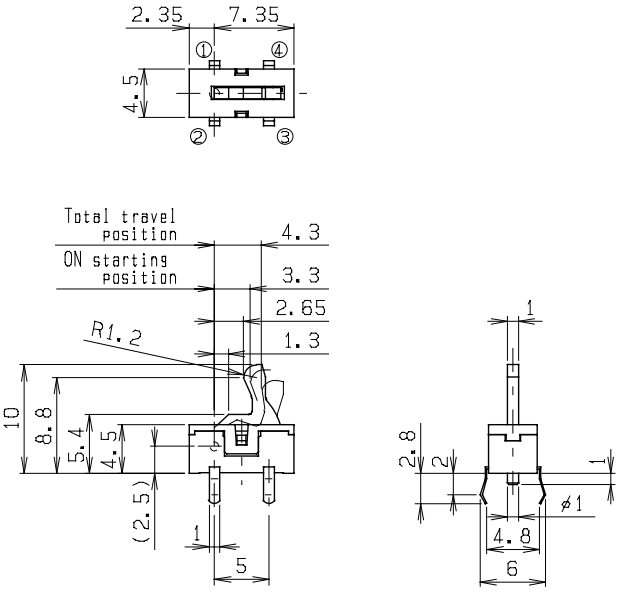
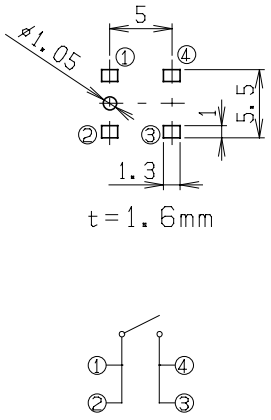
No	Products No	Pole	Position	Operating force	Notes
1	SW1AB-252S	1	1	0.4N max.	2 operating direction is possible.
2	SW1AB-252-3S	1	1	0.3N max.	
3	SW1AB-252-4S	1	1	0.35N max.	
4	SW1AB-252-8S	1	1	0.35N max.	3 operating direction is possible.
5	SW1AB-252-9S	1	1	0.4N max.	2 operating direction is possible.
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)

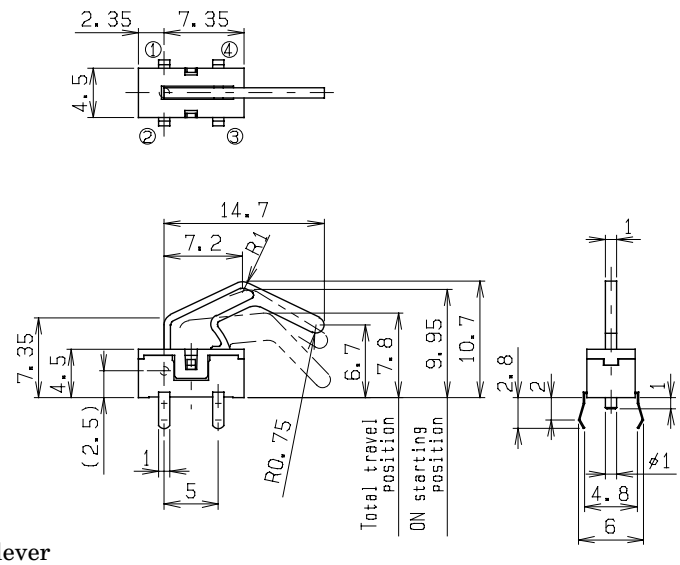
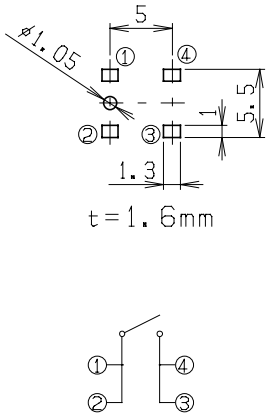
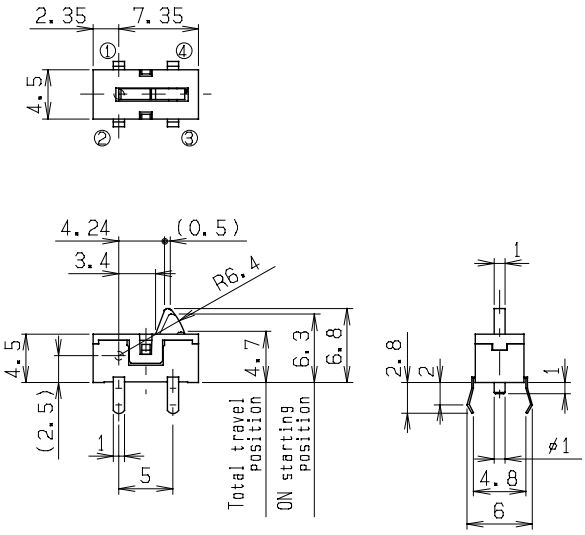
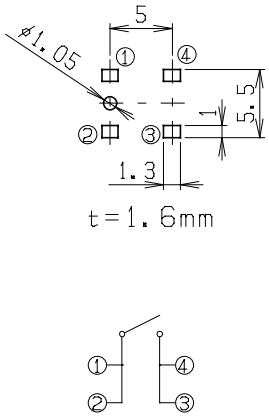
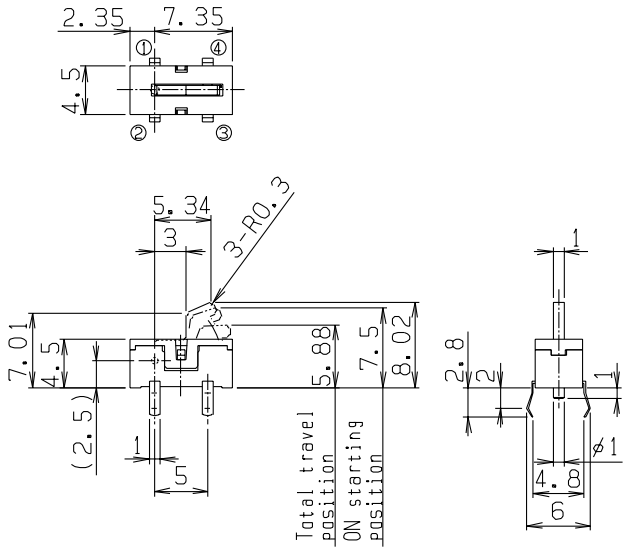
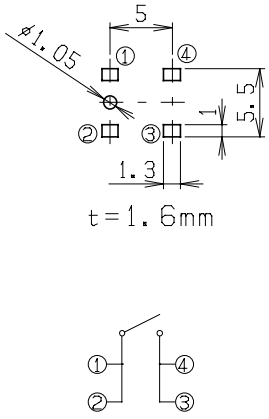
[] Typical Specifications

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

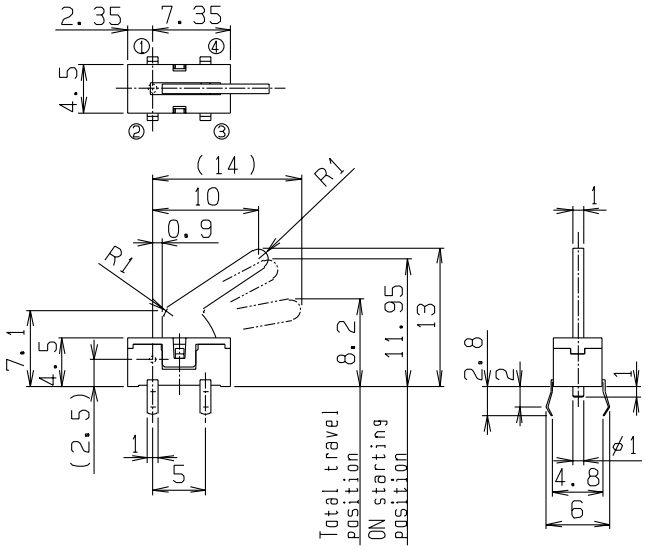
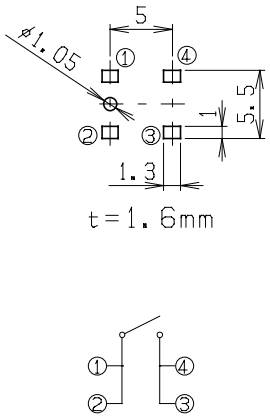
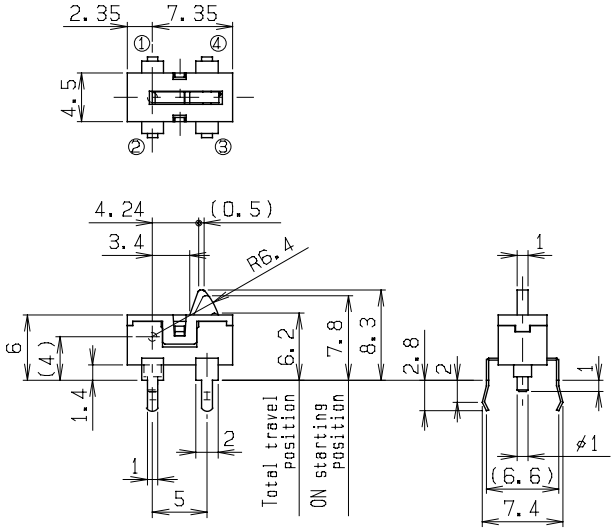
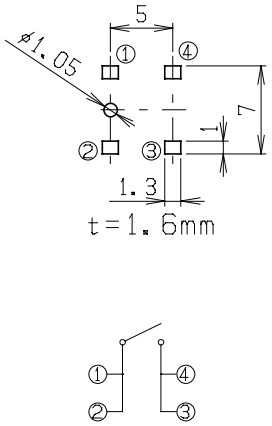
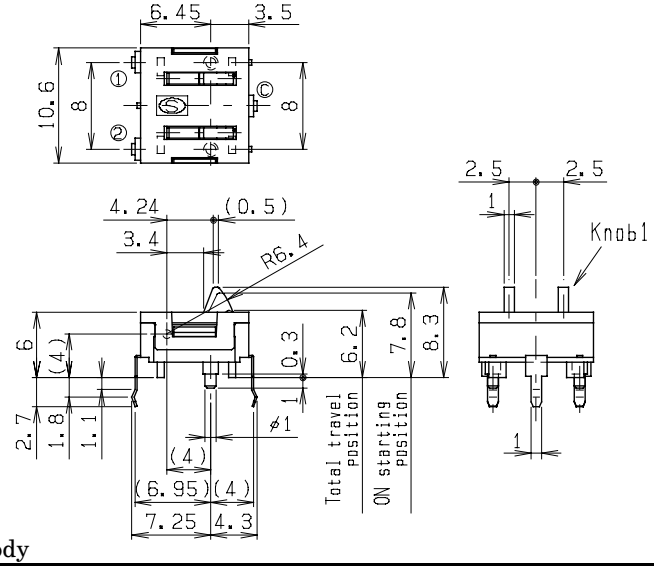
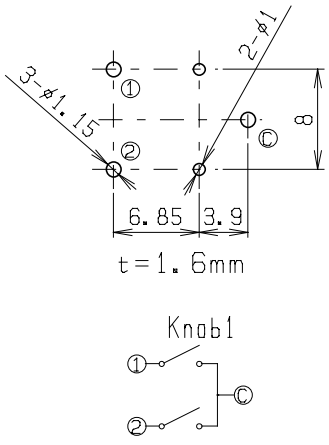
[] Dimensions Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
1	SW1AB-252S  Variation of lever	
2	SW1AB-252-3S  Variation of lever	
3	SW1AB-252-4S  Variation of lever	

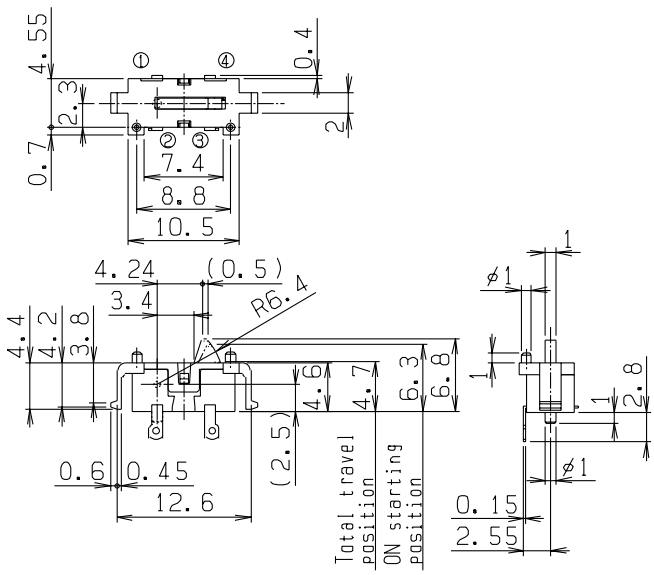
[] Dimensions Unit : mm

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

[] Dimensions Unit : mm

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

Dimensions Unit : mm

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

[] Notes

1. The appearance and specifications of the product may be modified to improve its performance without prior notice.
2. This catalog shows only outline specifications. When using the product, please obtain formal specifications.
3. Please see appendix [Cautions in Using Switches].
4. This switch is not washable.
5. Soldering shall be done with actuator at free position and take care not to attach flux on plastic portion.
6. Note that if the stress is applied to the terminals during soldering, they might cause deformation and defects in electrical performance.
7. 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.
8. 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.
9. As to threshold voltage, center setting is recommended.
10. Care shall be taken not to apply stress to the body of switch as it may affect the performance.
11. Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.