

# Lever-type Detector Switches

## SW1AG-530 / -531 Series

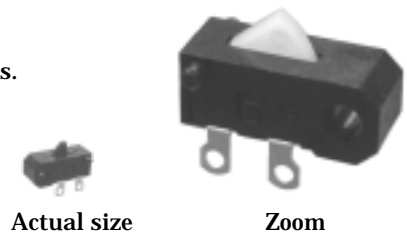
1/3

### Features

- <>Miniaturized for space saving design.
- <>Superior reliability at micro-current by employing a sliding contact.
- <>This is a compact detector switch which is possible to detect 2 direction.
- <>Custom-made of the lever style is possible and please feel free to contact us beforehand..

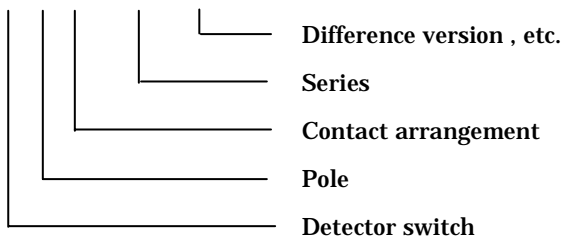
### Applications

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



### Products Number System

SW 1 AG - 530 - [ ] [ ] [ ]



### Products Line

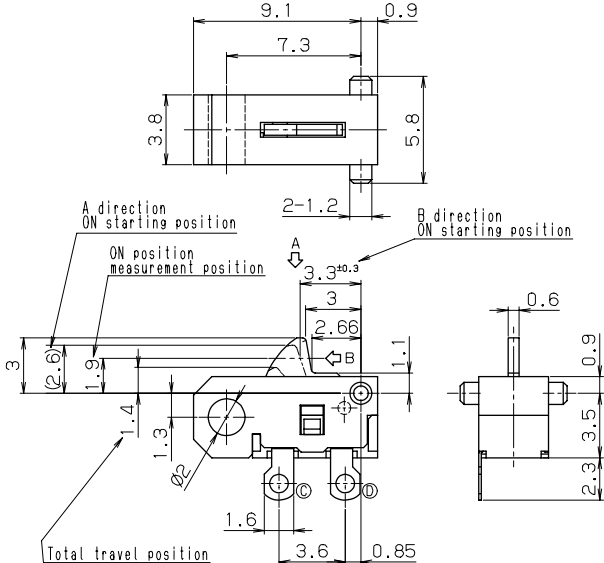
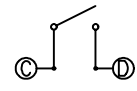
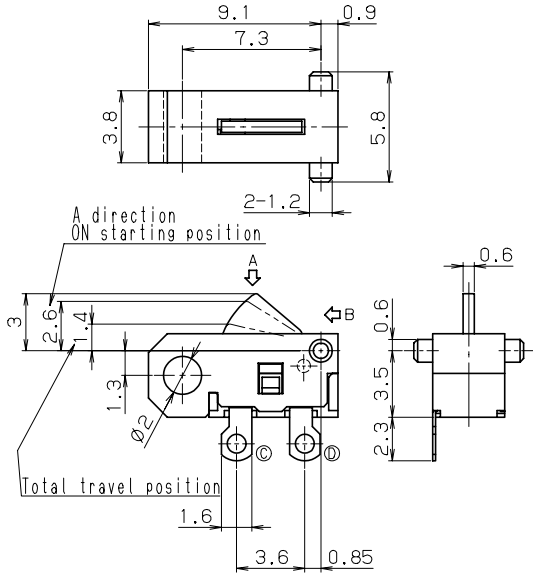
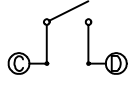
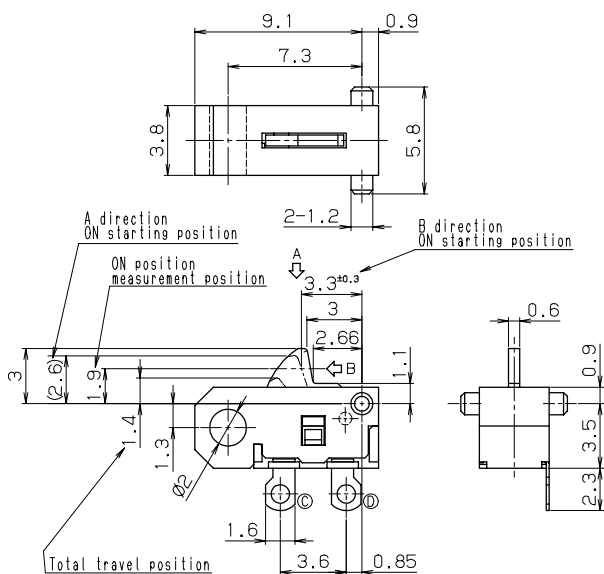
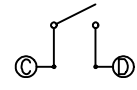
No	Products No	Pole	Position	Mounting Method	Terminal Type
1	SW1AG-530	1	1	Screw	For lead wiring
2	SW1AG-530-2				
3	SW1AG-531				
4	SW1AG-531-2				

### Typical Specifications

Item	Specification
Ratings (max.)	0.1 to 10mA 3 to 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
Operating force	0.3N max.

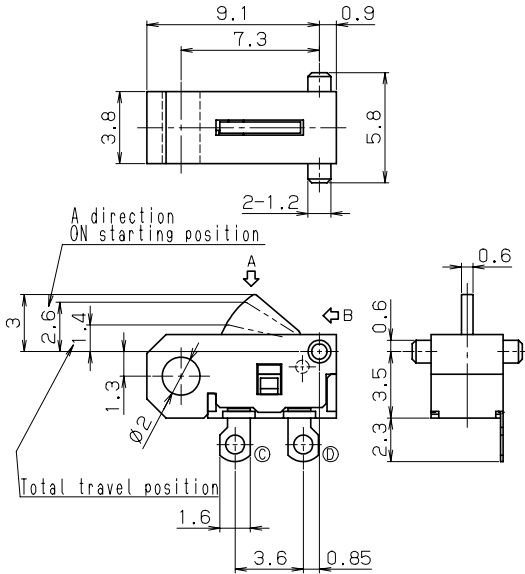
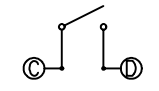
## ■ Dimensions

Unit : mm

No	Style	P.C.B reference Land Dimensions Circuit diagram (TOP VIEW)
1	<b>SW1AG-530</b>  <p>Technical drawing of SW1AG-530 switch. Dimensions include: 9.1, 0.9, 7.3, 3.8, 5.8, 2-1.2, 3.3<sup>+0.3</sup>, 3, 2.66, 1.1, 0.6, 0.9, 2.3, 3.5, 2.6, 1.9, 1.3, 1.4, 1.6, 3.6, 0.85, 1.3, 1.1, 1.6, 3.6, 0.85. Labels: A direction ON starting position, ON position measurement position, B direction ON starting position, Total travel position.</p>	 <p>Circuit diagram</p>
2	<b>SW1AG-530-2</b>  <p>Technical drawing of SW1AG-530-2 switch. Dimensions include: 9.1, 0.9, 7.3, 3.8, 5.8, 2-1.2, 3.3<sup>+0.3</sup>, 3, 2.66, 1.1, 0.6, 0.9, 2.3, 3.5, 2.6, 1.9, 1.3, 1.4, 1.6, 3.6, 0.85, 1.3, 1.1, 1.6, 3.6, 0.85. Labels: A direction ON starting position, ON position measurement position, B direction ON starting position, Total travel position.</p>	 <p>Circuit diagram</p>
3	<b>SW1AG-531</b>  <p>Technical drawing of SW1AG-531 switch. Dimensions include: 9.1, 0.9, 7.3, 3.8, 5.8, 2-1.2, 3.3<sup>+0.3</sup>, 3, 2.66, 1.1, 0.6, 0.9, 2.3, 3.5, 2.6, 1.9, 1.3, 1.4, 1.6, 3.6, 0.85, 1.3, 1.1, 1.6, 3.6, 0.85. Labels: A direction ON starting position, ON position measurement position, B direction ON starting position, Total travel position.</p>	 <p>Circuit diagram</p>

# Dimensions

Unit : mm

No	Style	P.C.B reference Land Dimensions Circuit diagram (TOP VIEW)
4	SW1AG-531-2 	 Circuit diagram

# 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.