

## Push-type Detector Switches

### SW-153-2A

1/2

#### Features

- ◇ Miniaturized for space saving design.
- ◇ Superior reliability at micro-current by employing a sliding contact.
- ◇ Light operating force.

#### Applications

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



Actual size

#### Products Line

No	Products No	Pole	Position	Notes
1	SW-153-2A	1	1	

#### Typical Specifications

Item	Specification
Ratings (max.)	1mA 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	0.245N max.

## Dimensions

Unit : mm

No	Style	P.C.B reference mounting hole Dimensions , Circuit diagram (TOP VIEW)
1	SW-153-2A	<p>Technical drawing of the SW-153-2A switch. The drawing includes a front view, a side view, and a top view. The front view shows a rectangular body with a central switch mechanism. Dimensions include a total width of 8.6, a central hole diameter of <math>\phi 2.5</math>, and a mounting hole diameter of <math>\phi 1.5</math>. The side view shows a height of 11.1 and a base width of 5. The top view shows a rectangular footprint with dimensions 8.6 by 4.5. A circuit diagram shows a switch with three terminals labeled 1, 2, and 3. Terminal 1 is connected to terminal 3, and terminal 2 is connected to terminal 3. The switch is labeled 'ON starting position' and 'Total travel position'.</p>

## 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.