

# Detector Switch MSS-10 Series

## Feature

- ◇ Sliding contact type
- ◇ For micro-current
- ◇ Wide actuator-variation.

## Applications

- ◇ FAX, Copying machine, Label printer
- ◇ CD, DVD-RAM printer
- ◇ Video camera, Game



MSS-10-1



MSS-10A-1



MSS-10F-23



MSS-10L2-1



MSS-10R2-16



MSS-13AUS6

## Products Line

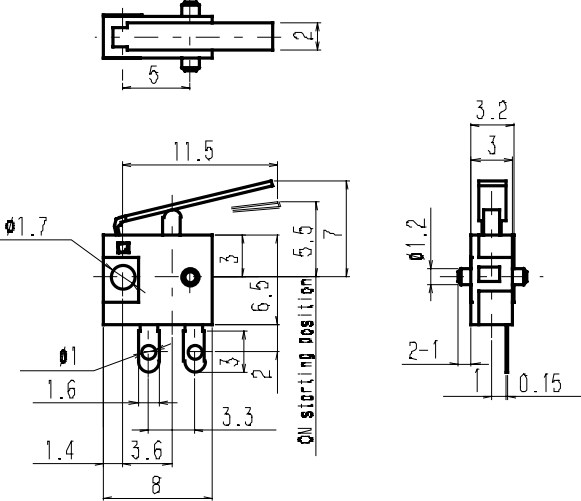
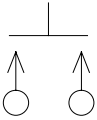
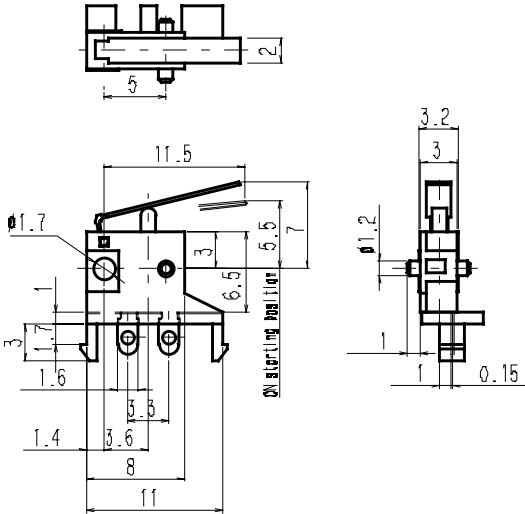
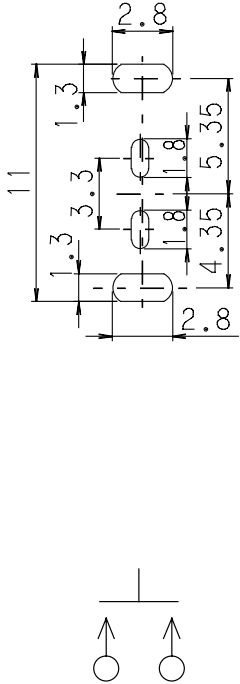
| No | Products No | Poles | Positions | Operating force           |
|----|-------------|-------|-----------|---------------------------|
| 1  | MSS-10-1    | 1     | 1         | 0.19N plus or minus 0.09N |
| 2  | MSS-10A-1   | 1     | 1         | 0.19N plus or minus 0.09N |
| 3  | MSS-10F-23  | 1     | 1         | 0.25N max                 |
| 4  | MSS-10L2-1  | 1     | 1         | 0.19N plus or minus 0.09N |
| 5  | MSS-10R2-16 | 1     | 1         | 0.34N max                 |
| 6  | MSS-13AUS6  | 1     | 1         | 0.39N plus or minus 0.24N |

## Typical Specifications

| Items                    | Specifications               |
|--------------------------|------------------------------|
| Ratings                  | 0.1A 16V DC (Resistive load) |
| Contact resistance       | 200 milliohm max             |
| Insulation resistance    | 100 megohm min. 250V DC      |
| Withstanding voltage     | 250V AC for 1min             |
| Operating life with load | 30,000 cycles                |

Dimensions

Unit : mm

| No | Style   | P.C.B reference land Dimensions<br>Circuit Diagram (TOP VIEW)   |
|----|---|---|
| 1  | <p>MSS-10-1</p>  <p>Technical drawings of MSS-10-1 component. The top view shows a rectangular component with dimensions: total width 8, distance from left edge to center of first hole 1.4, hole diameter <math>\phi 1</math>, distance between holes 3.6, distance from center of second hole to right edge 3.3, and total length 11.5. A side view shows a length of 5 and a thickness of 2. A cross-sectional view shows a diameter of <math>\phi 1.7</math>, a distance of 3 from the left edge to the center of the first hole, a distance of 6.5 to the center of the second hole, and a distance of 7 to the right edge. A note indicates 'ON starting position'. A detail view shows a diameter of <math>\phi 1.2</math>, a distance of 2-1 from the left edge to the start of a feature, and a distance of 0.15 from the bottom edge to the center of the feature. The feature has a width of 3 and a total height of 3.2.</p>      |  <p>Circuit diagram symbol for MSS-10-1, consisting of a vertical line with two circles below it, representing a component with two terminals.</p>  |
| 2  | <p>MSS-10A-1</p>  <p>Technical drawings of MSS-10A-1 component. The top view shows a rectangular component with dimensions: total width 11, distance from left edge to center of first hole 1.4, hole diameter <math>\phi 1.7</math>, distance between holes 3.6, distance from center of second hole to right edge 3.3, and total length 11.5. A side view shows a length of 5 and a thickness of 2. A cross-sectional view shows a diameter of <math>\phi 1.7</math>, a distance of 3 from the left edge to the center of the first hole, a distance of 6.5 to the center of the second hole, and a distance of 7 to the right edge. A note indicates 'ON starting position'. A detail view shows a diameter of <math>\phi 1.2</math>, a distance of 1 from the left edge to the start of a feature, and a distance of 0.15 from the bottom edge to the center of the feature. The feature has a width of 3 and a total height of 3.2.</p> |  <p>Circuit diagram symbol for MSS-10A-1, consisting of a vertical line with two circles below it. Detailed dimensions for the top view are provided: total width 11, distance from left edge to center of first hole 1.3, hole diameter <math>\phi 1.7</math>, distance between holes 3.3, distance from center of second hole to right edge 3.3, and total length 11.5. A side view shows a length of 5 and a thickness of 2. A cross-sectional view shows a diameter of <math>\phi 1.7</math>, a distance of 3 from the left edge to the center of the first hole, a distance of 6.5 to the center of the second hole, and a distance of 7 to the right edge. A note indicates 'ON starting position'. A detail view shows a diameter of <math>\phi 1.2</math>, a distance of 1 from the left edge to the start of a feature, and a distance of 0.15 from the bottom edge to the center of the feature. The feature has a width of 3 and a total height of 3.2.</p> |

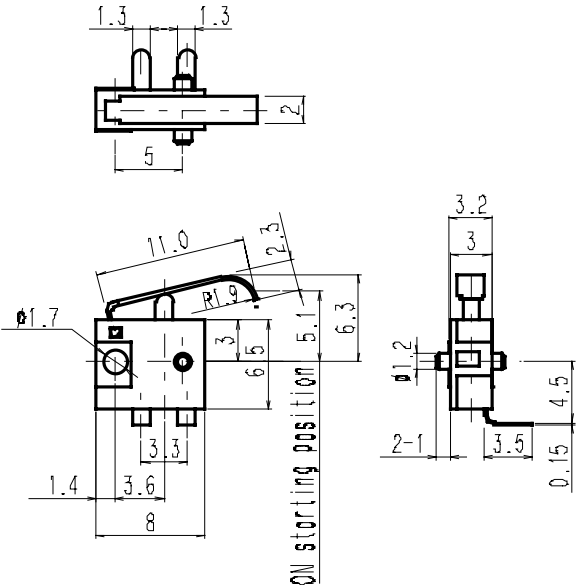
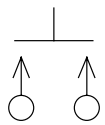
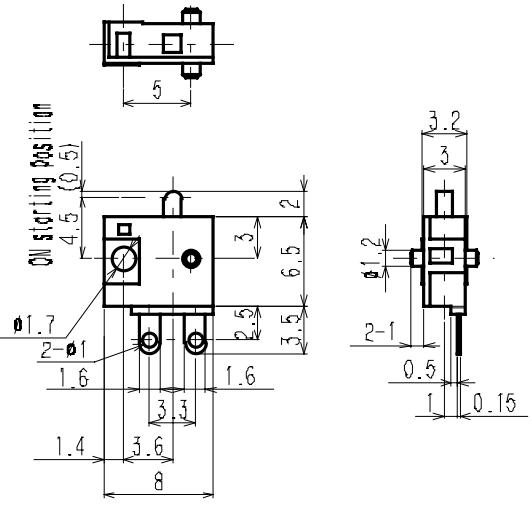
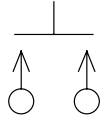
Dimensions

Unit : mm

| No | Style             | P.C.B reference land Dimensions<br>Circuit Diagram (TOP VIEW) |
|----|-------------------|---|
| 3  | <p>MSS-10F-23</p> |   |
| 4  | <p>MSS-10L2-1</p> |   |

Dimensions

Unit : mm

| No | Style   | P.C.B reference land Dimensions<br>Circuit Diagram (TOP VIEW)   |
|----|---|---|
| 5  | <p>MSS-10R2-16</p>  <p>Technical drawing of MSS-10R2-16 component. It includes a top view showing two pins with a width of 5 mm and a distance of 1.3 mm between them. A side view shows a total length of 11.0 mm, a height of 2.3 mm, and a radius of R1.9. A front view shows a width of 8 mm, a height of 6.3 mm, and a distance of 5.1 mm from the top edge to the start of the mounting holes. Other dimensions include 1.7 mm for hole diameter, 3.3 mm for hole spacing, 1.4 mm for pin offset, 3.6 mm for pin width, and 3 mm for pin height. A note indicates 'ON starting position'.</p> |  <p>Circuit diagram for MSS-10R2-16 showing a common terminal and two normally open contacts.</p> |
| 6  | <p>MSS-13AUS6</p>  <p>Technical drawing of MSS-13AUS6 component. It includes a top view showing a width of 5 mm. A side view shows a total length of 11.0 mm, a height of 2.3 mm, and a radius of R1.9. A front view shows a width of 8 mm, a height of 6.5 mm, and a distance of 4.5 mm from the top edge to the start of the mounting holes. Other dimensions include 1.7 mm for hole diameter, 3.3 mm for hole spacing, 1.4 mm for pin offset, 3.6 mm for pin width, 1.6 mm for pin height, and 2 mm for pin offset. A note indicates 'ON starting position'.</p>                               |  <p>Circuit diagram for MSS-13AUS6 showing a common terminal and two normally open contacts.</p> |

**□ Notes**

1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
2. This catalog shows only outline specifications. When using the product, please obtain formal specifications supply.
3. Please see appendix [Cautions in Using Switches ].
4. For high safety applications, please confirm with protection and redundant circuit.
5. This detector switch is not a washable type.
6. 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.
7. Please do not apply pressure for 1 minute after soldering.
8. Since soldering quality may deteriorate due to sulfuration and oxidation of terminals, please use as soon as possible within maximum 6 months after delivery and use within a after opening the package condition and the one within 1 week after you unpack it again.
9. Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.