[] Features
    <>Dimensions 12.4x11x5.8mm,
    <>Long ON travel (single side: about 27 degree)
    <>Wide variation as printed wiring and lead wiring, etc. are possible.
    <>Custom-made of the knob style is possible and please feel free to contact us beforehand.
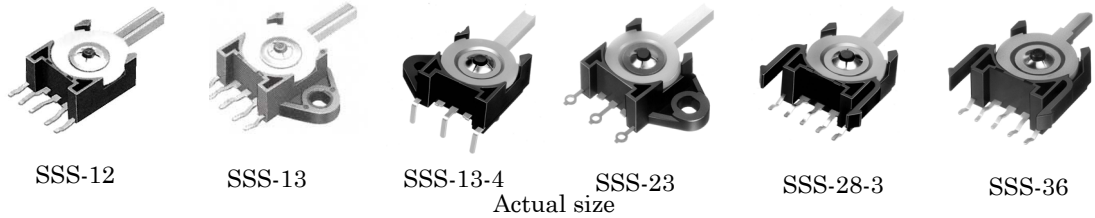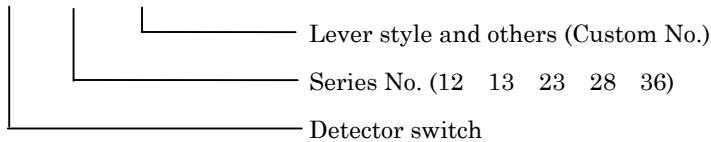
SSS-12    SSS-13    SSS-13-4    SSS-23    SSS-28-3    SSS-36

Actual size

[] Applications
    <>CD, DVD, VTR
    <>Detection of operating position of trays.

[] Product Number

SSS - [ ][ ] - [ ][ ]

Lever style and others (Custom No.)

Series No. (12   13   23   28   36)

Detector switch

[] Products Line

| No | Products No. | Operating force R direction L direction | Travel OFF Duration | Travel Total Travel | Terminal Type | Recommended Thickness of P.C.B | Mounting Method |
|---|---|---|---|---|---|---|---|
| 1 | SSS-12 | MAX 0.69N | 18 (single side 9 degree) | 36 (single side 36 degree) | Straight | 1.2mm to 1.6mm | P C B mounting |
| 2 | SSS-13 | | | | Straight | 1.2mm to 1.6mm | Screw |
| 3 | SSS-13-4 | | | | Light angle | 1.6mm | Screw |
| 4 | SSS-23 | | | | For lead wiring | - | Screw |
| 5 | SSS-28-3 | | | | Straight | 1.6mm | Snap in |
| 6 | SSS-36 | | | | Straight | 1mm | Snap in |

[] Typical Specifications

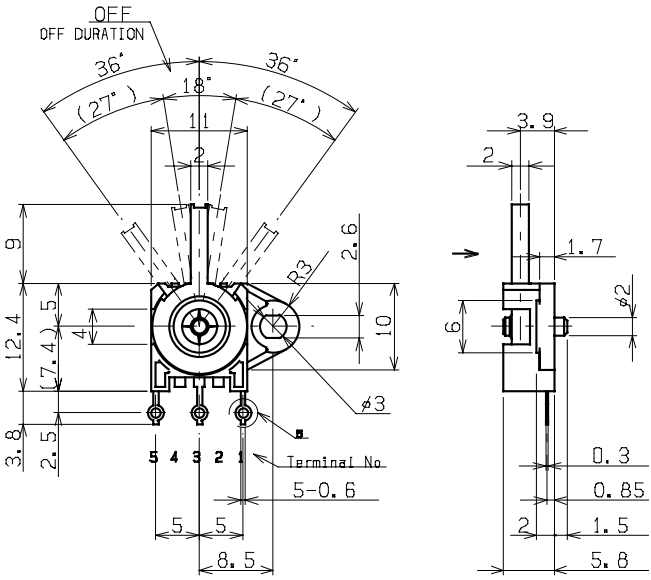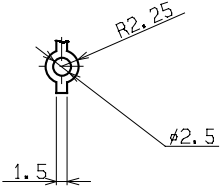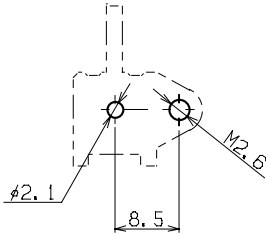| Item | Specifications |
|---|---|
| Circuit-Position | 1 pole - 2 positions |
| Type | Normally Open |
| Ratings (max.) ( Resistive load ) | 100mA 12V DC |
| Contact resistance | 100 milliohm max. |
| Operating life | 50,000 cycles |
| Operating temperature range | -10 to +70 degree Celsius |
| Storage temperature range | -20 to +85 degree Celsius |

# SHINMEI ELECTRIC CO., LTD.
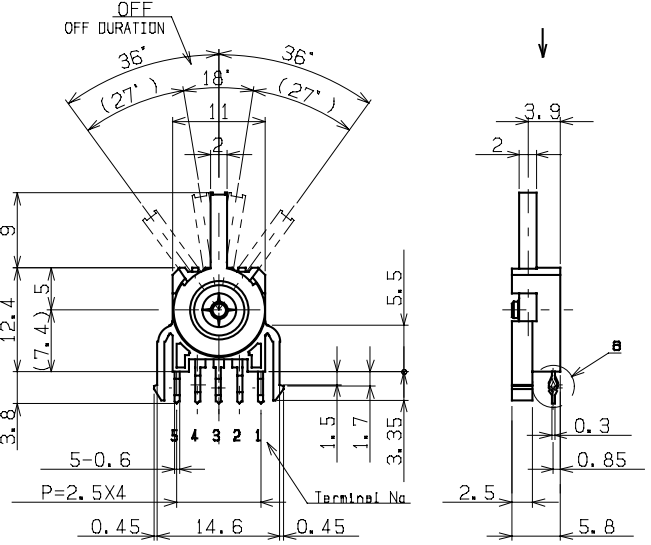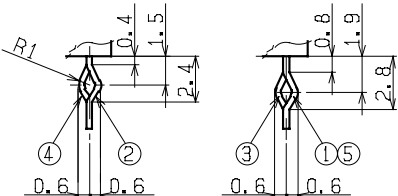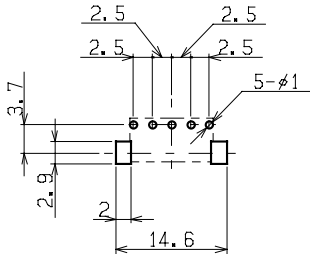
[] Dimensions
Unit : mm

| No | Style | P.C.B mounting hole Dimensions Terminal style (TOP VIEW) |
|---|---|---|
| 1 | SSS-12  | Terminal style (a)  P.C. board dimensions  |
| 2 | SSS-13  | Terminal style (a)  P.C. board dimensions  |
| 3 | SSS-13-4  | Terminal style (a)  |

## SHINMEI ELECTRIC CO., LTD.

[] Dimensions                                                                    Unit : mm

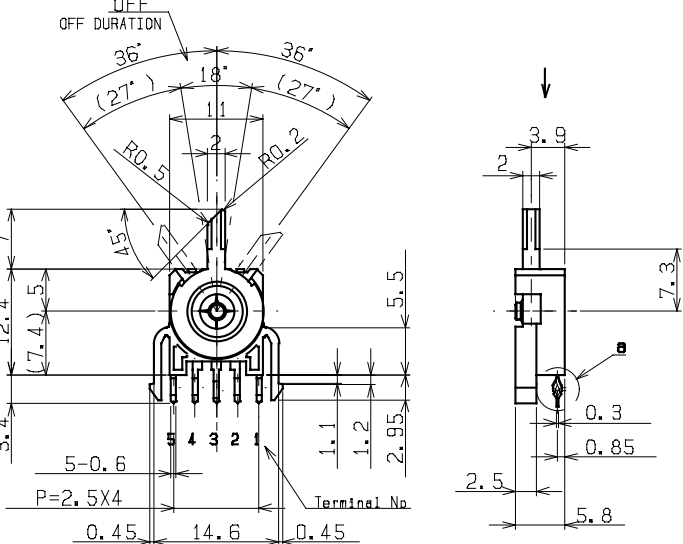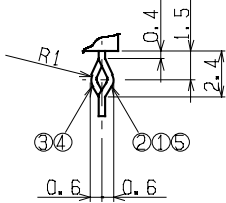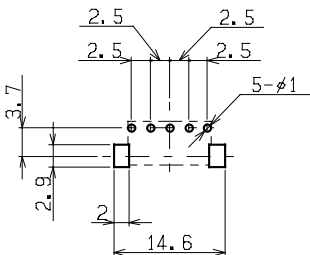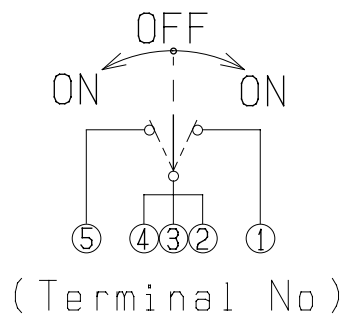| No | Style | P.C.B mounting hole Dimensions Terminal style (TOP VIEW) |
|---|---|---|
| 4 | SSS-23<br>OFF<br>OFF DURATION<br>36° 18° 36°<br>(27°) (27°)<br>11<br>2<br>9<br>12.4 5 R3 2.6<br>(7.4) 4 10<br>3.8 ø3<br>2.5 5 4 3 2 1 Terminal No.<br>5-0.6<br>5 5<br>8.5<br>3.9 2 1.7<br>6 ø2<br>0.3<br>0.85<br>2 1.5<br>5.8 | Terminal style (a)<br>R2.25<br>ø2.5<br>1.5<br>P.C. board dimensions<br>ø2.1 M2.6<br>8.5 |
| 5 | SSS-28-3<br>OFF<br>OFF DURATION<br>36° 18° 36°<br>(27°) (27°)<br>11<br>2<br>9<br>12.4 5<br>(7.4)<br>3.8<br>5 4 3 2 1<br>5-0.6 Terminal No.<br>P=2.5X4<br>0.45 14.6 0.45<br>3.9 2 5.5<br>1.5 1.7 3.35<br>0.3<br>0.85<br>2.5 5.8 | Terminal style (a)<br>R1 0.4 1.5 0.8 1.9<br>2.4 2.8<br>④ ② ③ ①⑤<br>0.6 0.6 0.6 0.6<br>P.C. board dimensions<br>2.5 2.5<br>2.5 2.5<br>3.7 5-ø1<br>2.9<br>2<br>14.6 |
| 6 | SSS-36<br>OFF<br>OFF DURATION<br>36° 18° 36°<br>(27°) (27°)<br>11<br>2<br>R0.5 R0.2<br>7 45°<br>12.4 5<br>(7.4)<br>3.4<br>5 4 3 2 1<br>5-0.6 Terminal No.<br>P=2.5X4<br>0.45 14.6 0.45<br>3.9 2 5.5<br>7.3<br>1.1 1.2 2.95<br>0.3<br>0.85<br>2.5 5.8 | Terminal style (a)<br>R1 0.4 1.5<br>2.4<br>③④ ②①⑤<br>0.6 0.6<br>P.C. board dimensions<br>2.5 2.5<br>2.5 2.5<br>3.7 5-ø1<br>2.9<br>2<br>14.6 |

□ Circuit diagram

```
              OFF
         ON    |    ON
          ⤢    |    ⤡
           ╲   |   ╱
           ⟋   |   ⟍
            \  |  /
             \ | /
              \|/
              ○
         ⑤  ④③②  ①
      (Terminal No)
```

□ 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 lever switch is not washable.
5   Soldering shall be done with lever 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.