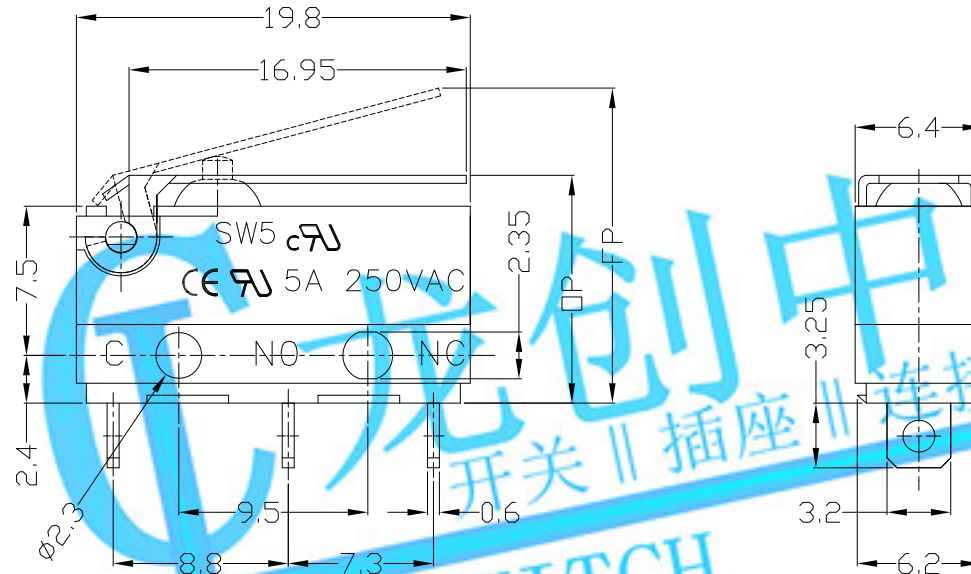




RoHS  
Compliant  
2002/95/EC

| REV. | ECN. | NO. | APPD. |
|------|------|-----|-------|
|      |      |     |       |
|      |      |     |       |
|      |      |     |       |

## DIMENSIONS

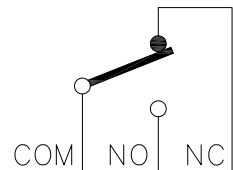


## MODEL CODE

SW5-01X-XX-C5-M

1 2 3 4 5 6 7

- 1.Series : SW
- 2.Current Rating: 5=5A 250VAC
- 3.Actuator: 00=Non-lever 01-99=Lever
- 4.Termination: N (2=SPST-NO)
- 5.Operating Force: see chart
- 6.Contact type: C5=5Amps Contact
- 7.Body type: M=6.4mm(the teminal can be solder waterproof wires)



## CIRCUIT DIAGRAM

## 1.Functional spec

|                        |                          |
|------------------------|--------------------------|
| 1.1 Rated Voltage      | 250VAC                   |
| 1.2 Rated Current      | 5A                       |
| 1.3 Contact Resistance | ≤100mΩ(Initial value)    |
| 1.4 Operating Force    | 45±20gf 60±25gf 100±40gf |
| 1.5 Free Position      | 15.5±1.0mm               |
| 1.6 Operating Position | 13.5±1.0mm               |

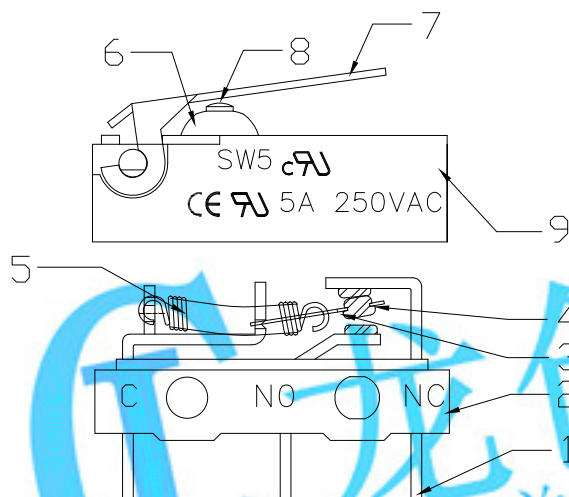
## 2.Reliable Rating

|                           |                  |
|---------------------------|------------------|
| 2.1 Mechanical Life       | 1,000,000 CYCLES |
| 2.2 Electrical Life       | 10,000 CYCLES    |
| 2.3 Insulation Resistance | ≥100MΩ DC500V    |
| 2.4 Withstand Voltage     | AC1000V 1 minute |
| 2.5 Soldering Technic     | Hand Soldering   |
| 2.6 Operating Temper      | -25°C ~ +80°C    |
| 2.7 Ambient Humidity Used | <85%RH           |

|                |  |                                                                                                                                                                                                   |                                    |   |                  |  |
|----------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|------------------|--|
| Tolerance:±0.2 |  | UNITS<br>mm                                                                                                                                                                                       | LONGCHUANG ZHONGYE (HK)CO.,LIMITED |   |                  |  |
|                |  | MAT'L                                                                                                                                                                                             |                                    |   |                  |  |
|                |  | SEE NOTE                                                                                                                                                                                          |                                    |   |                  |  |
|                |  | FINISH                                                                                                                                                                                            |                                    |   |                  |  |
|                |  | SEE NOTE                                                                                                                                                                                          |                                    |   |                  |  |
|                |  | Q'TY                                                                                                                                                                                              |                                    |   |                  |  |
|                |  | THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF ACCURATE INNOTECH INC AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF ACCURATE INNOTECH INC. |                                    |   |                  |  |
|                |  | DR: Ricky 2017/3/9                                                                                                                                                                                |                                    |   |                  |  |
|                |  | CHKD: Ricky 2017/3/9                                                                                                                                                                              |                                    |   |                  |  |
|                |  | APPD:                                                                                                                                                                                             |                                    |   |                  |  |
|                |  | 11                                                                                                                                                                                                | 1/2                                | A | CUSTOMER DRAWING |  |



## Structure chart



| 3. Protection class                                  | Test conditions and technical requirement                                                                                                                                                                                                                                                                                                                                           | Conclusion to determine                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1<br>protection against ingress of dust<br>(IP5X)  | The switches are placed in a position of normal use inside the test chamber. The test is carried out according to the second enclosure of IEC60529-1989. The test shall be continued for a period of 8h. After testing, the switches are taken out of the chamber and left at 25±10℃ conditions, Load Rating: 5A 250VAC, test the temperature rise of the switches.                 | After test:<br>1. Operating is normal;<br>2. The temperature rise shall not exceed 50K;<br>3. Between terminals, terminal and surface of the crust, dielectric withstand in voltage ≥1000V                                                                                                                                       |
| 3.2<br>protection against ingress of water<br>(IPX1) | The switches are placed in an oven which the temperature is 70±2℃ for 240 hours. Then the switches are taken out of the oven immediately and left at 25±10℃ conditions for 16 hours. After that, testing protection against ingress of water. During the testing, the temperature between the water and the samples shall not exceed 5K, and the switches have no electric current. | After test:<br>1. The body of the switch and the airproof cap have no transmutation, dilapidation, induration;<br>2. The switch shall withstand the dielectric strength ≥1000V<br>3. There is no trace of water on insulation which could result in a reduction of creepage distances and clearances below the values specified. |
| 3.3<br>reference standards and conditions            | IEC60529-1989<br>IEC61058-1:1996<br>Environment condition: temperature range 15℃-35℃                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                  |

## Material list

|     |               |              |      |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
|-----|---------------|--------------|------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|----------------------------------------------|--|-----------------------------|--|--|--------------|--|--|-----------|--|--|
| 9   | Upper Housing | Nylon        | 1    | Black     | Tolerance: ±0.2                                                                                                                                                                                   | UNITS<br>mm | LONGCHUANG ZHONGYE (HK)CO.,LIMITED |                                              |  |                             |  |  |              |  |  |           |  |  |
| 8   | Button        | PBT          | 1    | Black     |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
| 7   | Lever         | SUS301       | 1    |           |                                                                                                                                                                                                   | MAT'L       | SEE NOTE                           | TITLE:<br>MICRO SWITCH Waterproof SW5 SERIES |  | PART NO:<br>SW5-01N-XX-C5-M |  |  |              |  |  |           |  |  |
| 6   | Cap           | RUBBER       | 1    |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
| 5   | Spring        | SUS304       | 1    |           |                                                                                                                                                                                                   | FINISH      | SEE NOTE                           | DR:<br><i>Ricky</i> 2017/3/9                 |  | DWG NO:<br>ATD-01N-XX-C5-M  |  |  |              |  |  |           |  |  |
| 4   | Contact       | Silver alloy | 3    |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
| 3   | Change Plate  | C5210        | 1    |           | THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF ACCURATE, INNOTECH INC AND SHALL NOT BE REPRODUCED COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF ACCURATE INNOTECH INC. | Q'TY        | SEE NOTE                           | CHKD:<br><i>Ricky</i> 2017/3/9               |  | SCALE<br>1:1                |  |  |              |  |  |           |  |  |
| 2   | Base          | Nylon        | 1    | Black     |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  | SHEET<br>2/2 |  |  |           |  |  |
| 1   | Terminal      | C2680        | 3    |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  | REV.<br>A |  |  |
| NO. | PARTS         | MATERIAL     | Q'TY | FINISHING |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
|     |               |              |      |           |                                                                                                              |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
|     |               |              |      |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
|     |               |              |      |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |
|     |               |              |      |           |                                                                                                                                                                                                   |             |                                    |                                              |  |                             |  |  |              |  |  |           |  |  |