CCY-D SERIES

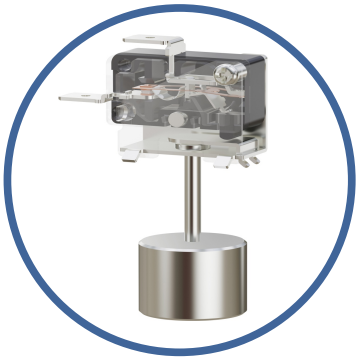
Tilt Switch

Introduction

The CCY-D series tilt switch is commonly used as an important component in various electronic devices. Its main function is to control the on/off status of the device based on its tilt angle, thereby achieving automatic control and protection of the device

CCY-D

CCY-D1



CCY-D2

CCY-D SPECIFICATIONS

Application Range

It is widely used in household appliances, electronic equipment, automation equipment, communication equipment, automobiles, instruments and meters.

Small size and easy installation

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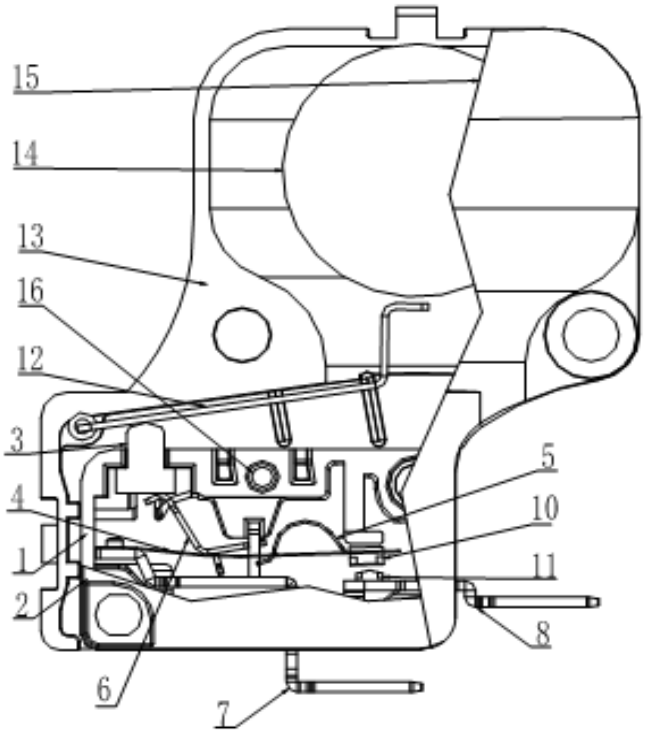
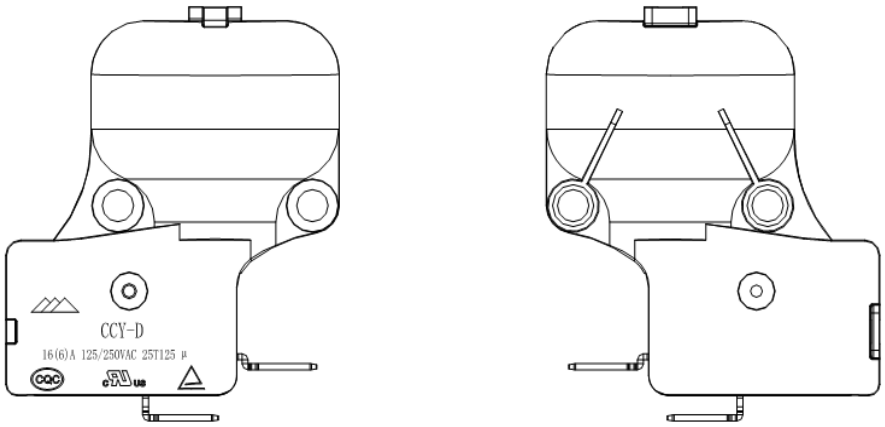
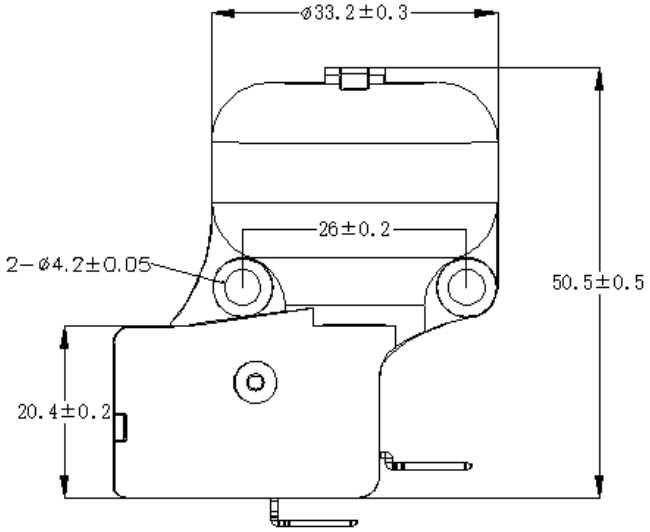
CCY-D SERIES STRUCTURE

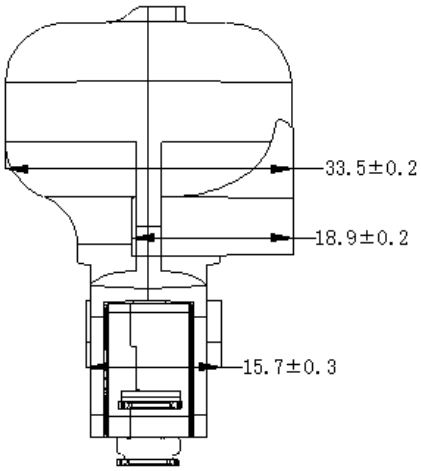


1.Base	2.Case	3.Button	4.Movable plate	5.Spring
6.Support rod	7.COM Terminal	8.NO Terminal	9./	10.Movable contact
11. Fixed Contact	12.Drive Rod	13.Bsae	14.Stell ball	15.Case
16.Screw bolt	16.Screw bolt			

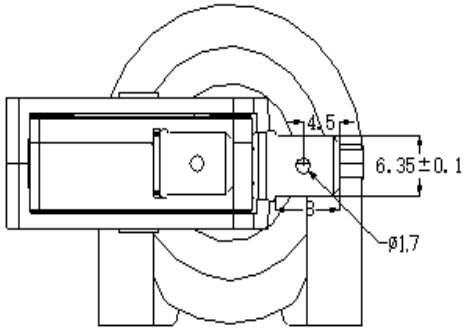


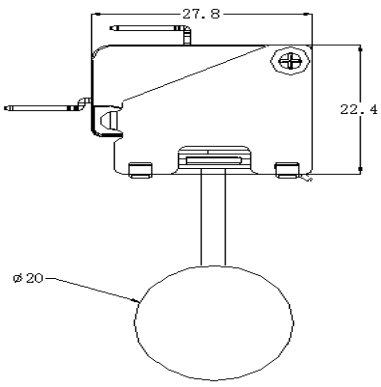
CCY-D

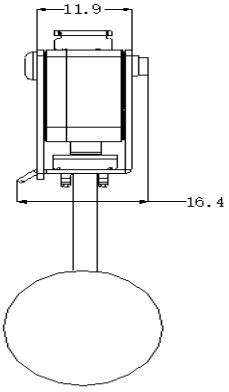




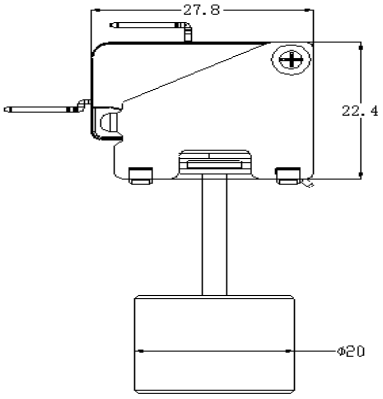
CCY-D

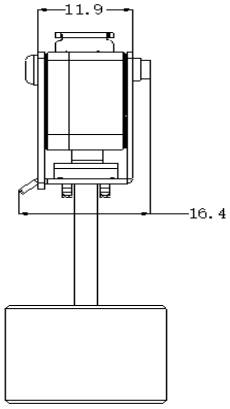




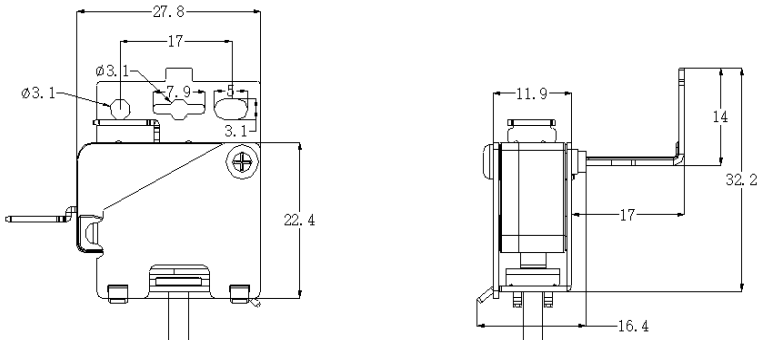


CCY-D1

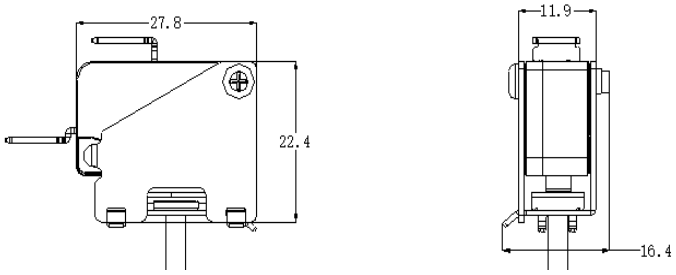




CCY-D2



Perforated Bracket



Non-Perforated Bracket

Items	Parameter
Action angle	45°±10
Reset angle	20°±10

NORMAL PERFOMANCE

Items		Performance
operating speed		0.1mm~1m/s
Permissible Operating Frequency	Mechanical	30 times per min.
	Electrical	7.5 times per min.
insulation resistance		above 100MΩ
Contacted resistance		below 50mΩ
Withstand Voltage	Between Terminals of the same Pole	AC500V50/60Hz60S
	Between Live Metal Parts and Ground/Between Terminals and Non-Live Metal Parts	AC1,500V50/60Hz60S
Cycle	Mechanical	100000+（30 times per min）
	Electrical	10000+（7.5 times per min）
Protection Rating		IP40
Electric shock Protection Level		CLASSI
Leakage Characteristics(PTI)		175
Operating Ambient Temperature		-25 ~ +125 （below 60%RH no icing no condensation）
Operating Ambient Humidity		below 85%RH（+5 to +35）

PRODUCT SAFETY CERTIFICATION

CCY-D

	CQC	UL	TUV	CB
File	CQC25002467725	E513512	R50672738	CN71605
Load	16(6)/16/13/10/8/5/3A 125/250V AC 25T125 1E4	16(6)/16/13/10/8/5/3A 125/250V AC 25T125 1E4	16(6)/16/13/10/8/5/3A 125/250V AC 25T125 1E4	16(6)/16/13/10/8/5/3A 125/250V AC 25T125 1E4

INSTALLATION MANUAL

1. When installing, disassembling, wiring, maintaining, and inspecting the switch, be sure to disconnect the power supply to avoid electric shock and product damage.

2. The installation of the switch uses M2.3 screws, which are fastened with flat washers, spring washers, etc.

REGARDING SOLDERING

1. When welding the wire, please pass the wire through the terminal hole before welding.

2. When the soldering temperature is higher than 350, the soldering time should be controlled within 3 seconds.

3. When installing the switch, please use a tightening torque of 0.23 - 0.26N·m.

4. When the soldering temperature is less than 350, the soldering time should be controlled within 5 seconds.

5. Please install the switch on a flat surface. If the installation surface is uneven, it may cause the switch to tilt, malfunction, and the housing to be damaged.

6.No external force should be applied within 1 minute after welding to avoid affecting the switch characteristics.

7.Do not apply external force within 1 minute after welding to avoid affecting the switch characteristics.

8.Excessive temperature or too long heating time will cause changes in the product's switch characteristics. Please ensure that the temperature and time are within the safe range.

9.When soldering, the amount of flux and solder should be well controlled to prevent flux or solder from entering the product interior, so as to avoid affecting the product's switch performance. When the soldering process may have an impact on the product's switch characteristics, a safe process should be selected to avoid this risk.

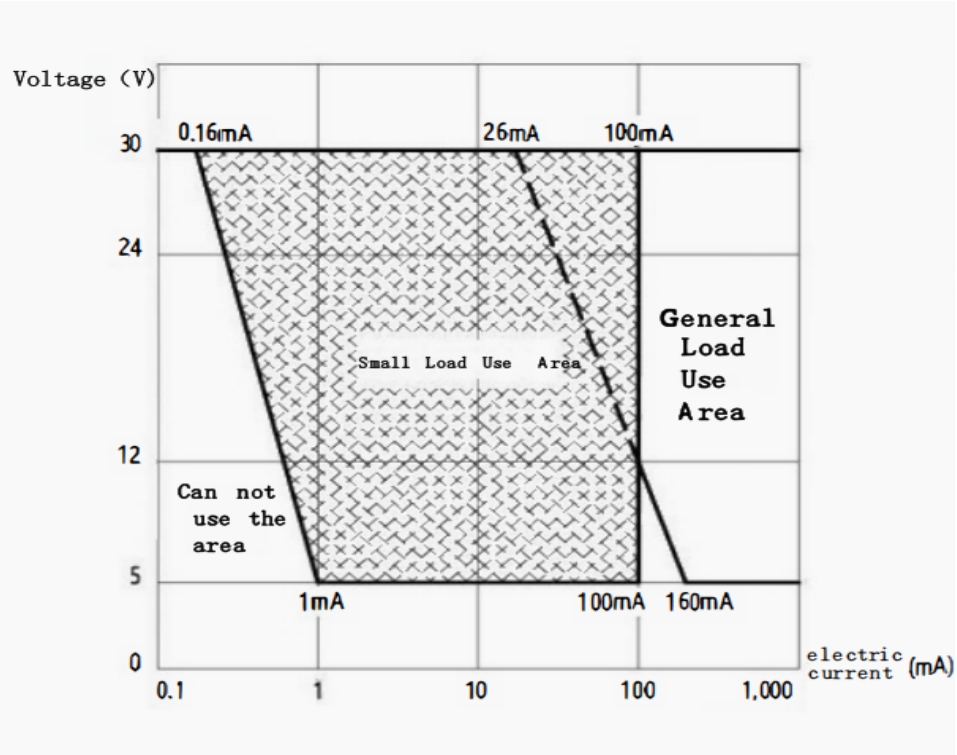
REGARDING Terminals

Regarding quick-connect terminals, when inserting the female terminal into the quick-connect terminal, external force should be avoided in the lateral direction of the terminal to prevent the terminal from deforming and the housing from being damaged, which may affect the switching characteristics of the product.

REGARDING THE USE IN MICRO-LOAD CIRCUITS

1. If a general load switch is used to switch a micro - load circuit, it may cause poor contact. Please refer to the figure below and use the switch within the operating range.

2. If the load generates inrush current during switching, the contact consumption will increase and the number of life cycles will decrease. Therefore, please insert a contact protection circuit as needed.



GENERAL PRINCIPLES

This product specification only puts forward the minimum technical requirements and not applicable to all technical requirements and standard. The seller shall provide the high-quality products and corresponding services that meet the requirements in this Technical Agreement.

The requirements of national compulsory standard concerning safety and environmental protection shall also be met.

In case the supplier not raise any objection to the terms of this spectification, the supplier shall provide products that completely meet the requirements that description in the spection

If the standards used in this specification are inconsistent with those used by the supplier , the higher standards shall be applied

Standards to follow
※GB/15092.1

※UL61058

※EN61058-1

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