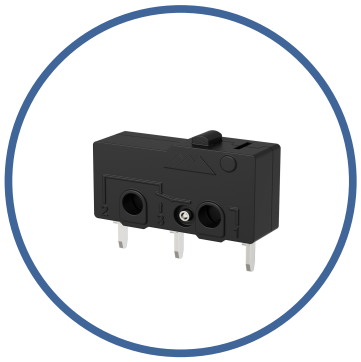
CCZ SERIES

Micro Switch

Introduction

CCZ is a miniature micro switch with a beautiful appearance and a maximum load current of 16A, which can meet the needs of different devices.



CCY

CCZ

CCY/CCZ SPECIFICATIONS

Application Range

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

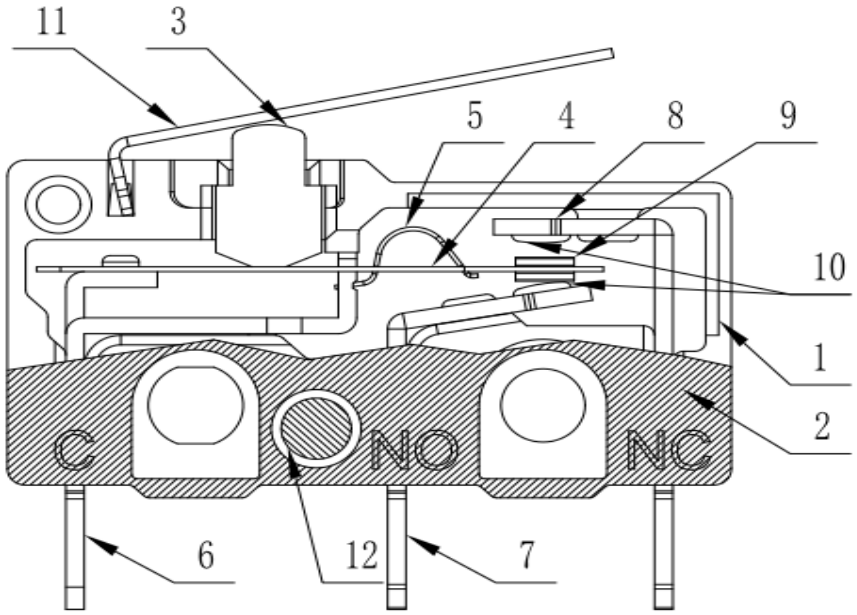
Meet the needs of multiple devices

The action force is more selective, which can meet the requirements of different equipment.

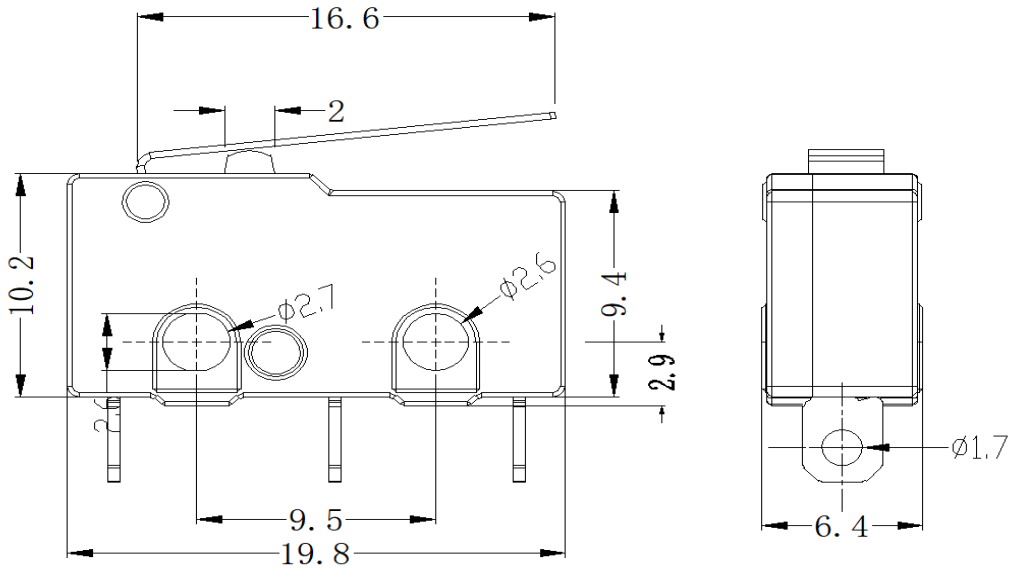
Multiple accessories to choose from

Equipped with multiple drive rods, terminals, and riveting forms that can be selected according to actual applications.

CCY/CCZ SERIES STRUCTURE



1.Base	2.Shell	3.Button	4.Movable plate	5.Clips
6.COM Terminal	7.NO Terminal	8.NC Terminal	9.Movable contact	10.Static contact
11.Rod	12.Rivet			



CCZ

DIMENSIONS AND ACTION PERFORMANCE

Needle button type

Items	CCZ
OF	1.5N
RF	0.25N
PT	0.5mm
OT	0.5mm
MD	0.1mm
OP	8.4±0.4mm

Linear rod

Items	CCZ-1
OF	0.39N
RF	0.03N
PT	1.2mm
OT	1.2mm
MD	16.8mm
OP	8.8±1.5mm

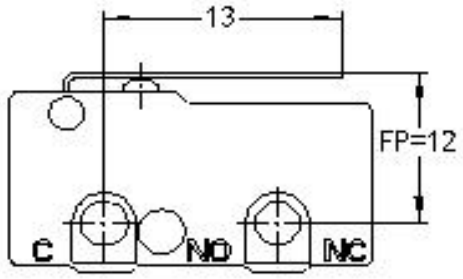
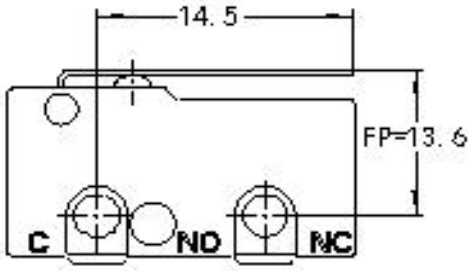
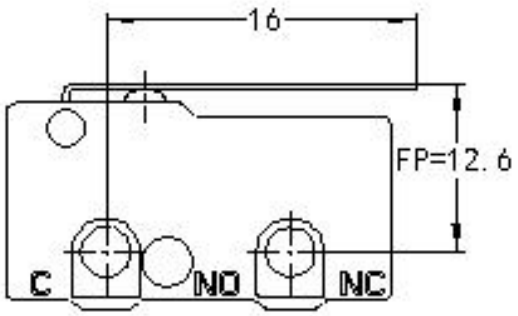
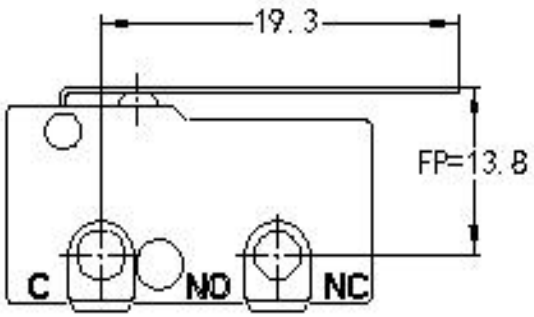
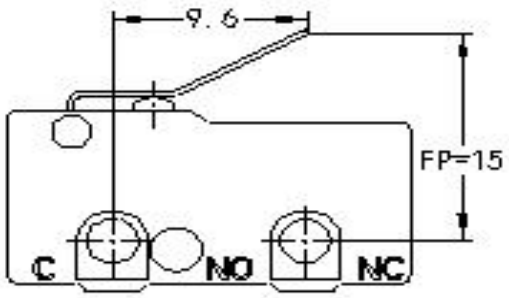
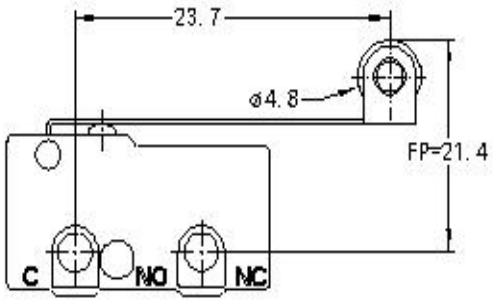
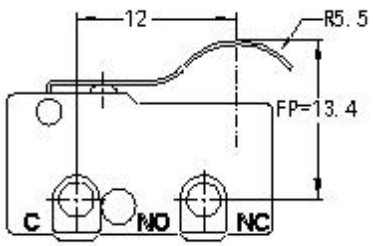
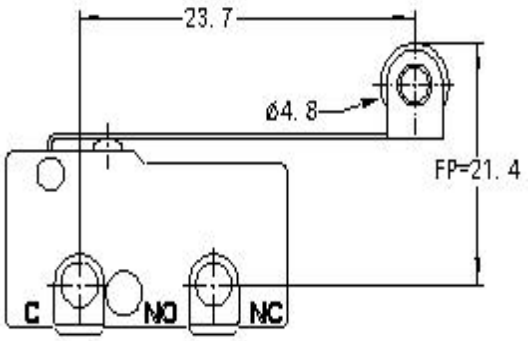
Cambered rod

Items	CCZ-2
OF	0.49N
RF	0.06N
PT	1.2mm
OT	0.8mm
MD	15.5mm
OP	10.7±0.8mm

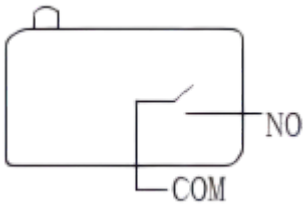
Roller rod

Items	CCZ-3
OF	0.49N
RF	0.06N
PT	1.2mm
OT	0.8mm
MD	19.3mm
OP	14.5±0.8mm

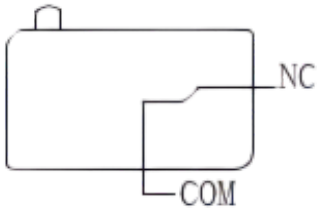
Special specifications of drive rod dimensions and their corresponding special parameter numbers

rod no.	dimensions and operating feature	rod no.	dimensions and operating feature
30		31	
32		33	
34		35	
36		37	
XX	Other types of drive rods are distinguished by special parameter Numbers, which can be determined according to the actual needs of customers		

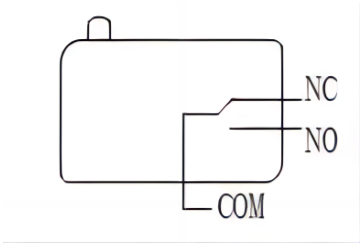
CONTACT TYPE DIAGRAM



1A（Normally open type）

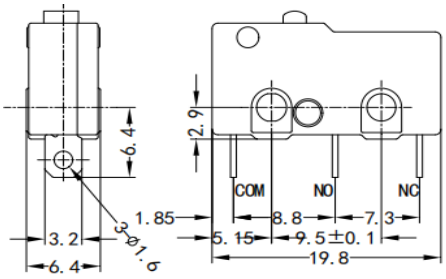


1B（Normally open type）

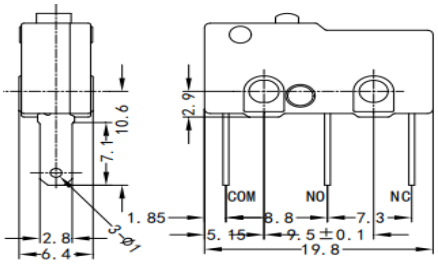


1C（SPDT type）

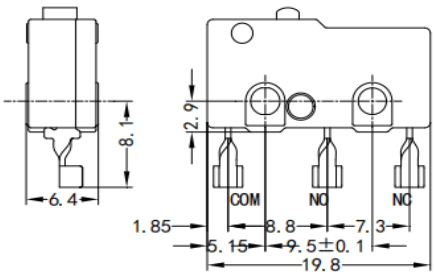
TERMINAL TYPE DIAGRAM



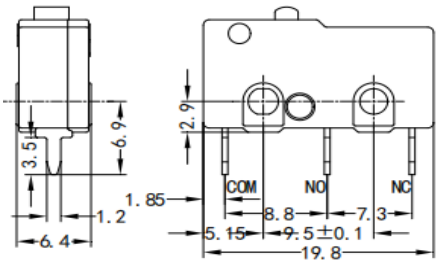
Welding Terminal



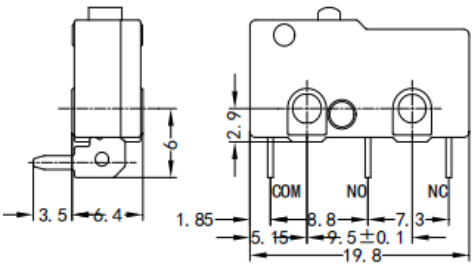
#110
Quick Connected Terminal



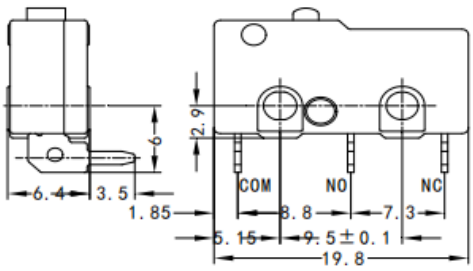
Riveted Terminal



PCB Terminal

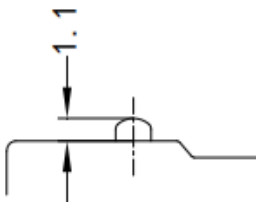
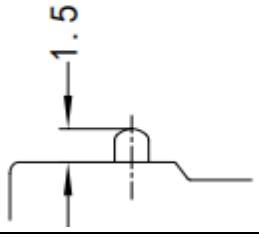
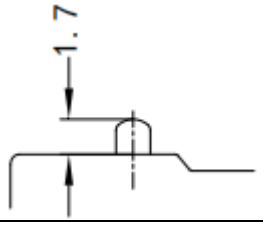
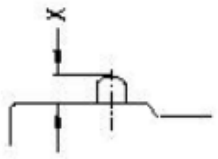


Left sidePCB Terminal

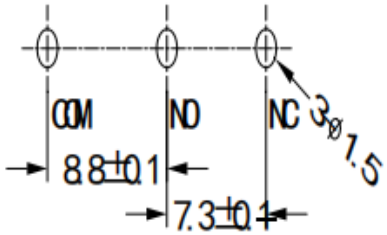
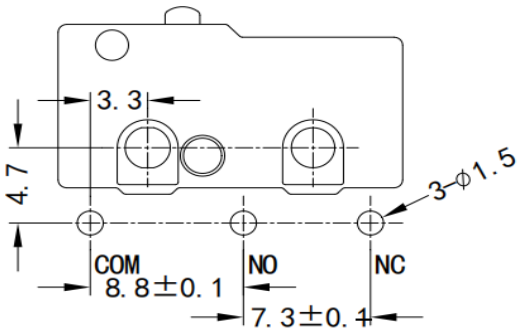
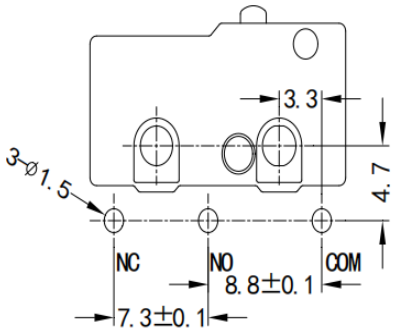
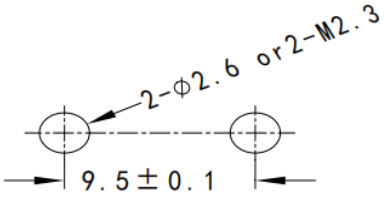


Right side PCB Terminal

BUTTON DESCRIPTION

Button number	CCY	CCY-15	CCY-17	CCZ-XX （Other specification buttons use XX, which are distinguished by two-digit numbers.）
Spec.				

MOUNTING HOLE DIMENSIONS

PCB terminal	Left side PCB terminal	Right side PCB terminal
		
Other terminal		
		

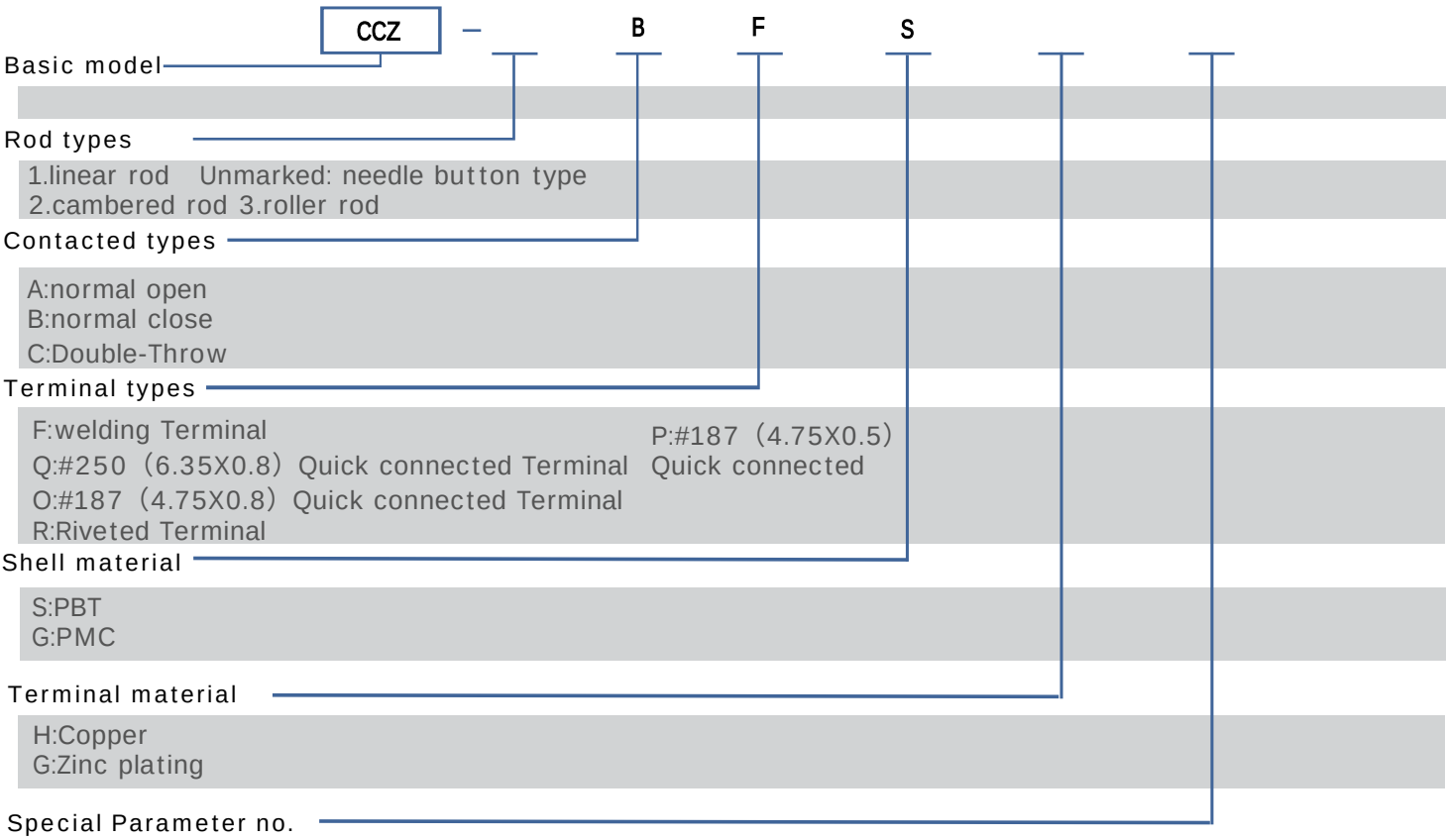
NORMAL PERFOMANCE

Items		Performance
operating speed		0.1mm~1m/s
Permissible Operating Frequency	Mechanical	60times per min.
	Electrical	30times per min.
insulation resistance		above 100MΩ
Contacted resistance		below 50mΩ
Withstand Voltage	Between Terminals of the same Pole	AC500V 50/60Hz 60S
	Between Live Metal Parts and Ground/Between Terminals and Non-Live Metal Parts	AC1,500V 50/60Hz 60S
Cycle	Mechanical	1000000+（60times per min）
	Electrical	100000+（60times 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 NAMING METHOD

Example : CCZ – BFS

CCY Series



When customers have other special requirements, add two digit numbers to distinguish them

PRODUCT SAFETY CERTIFICATION

CCZ Series

	CQC	UL	VDE
File	CQC20002252474	E513512	40054303
Standard	GB15092.1	UL61058	EN61058-1
Load	4A 30VDC 25T125 1E5 5(3)A 125/250VAC 25T125 1E5 10(3)A 125/250VAC 25T125 5E4	4A 30VDC 25T125 1E5 5(3)A 125V/250VAC 25T125 1E5 9(3)A 125VAC 25T125 5E4	4A 30VDC 25T125 1E5 5(3)A 125V/250VAC 25T125 1E5 10(3)A 250VAC 25T125 5E4

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.

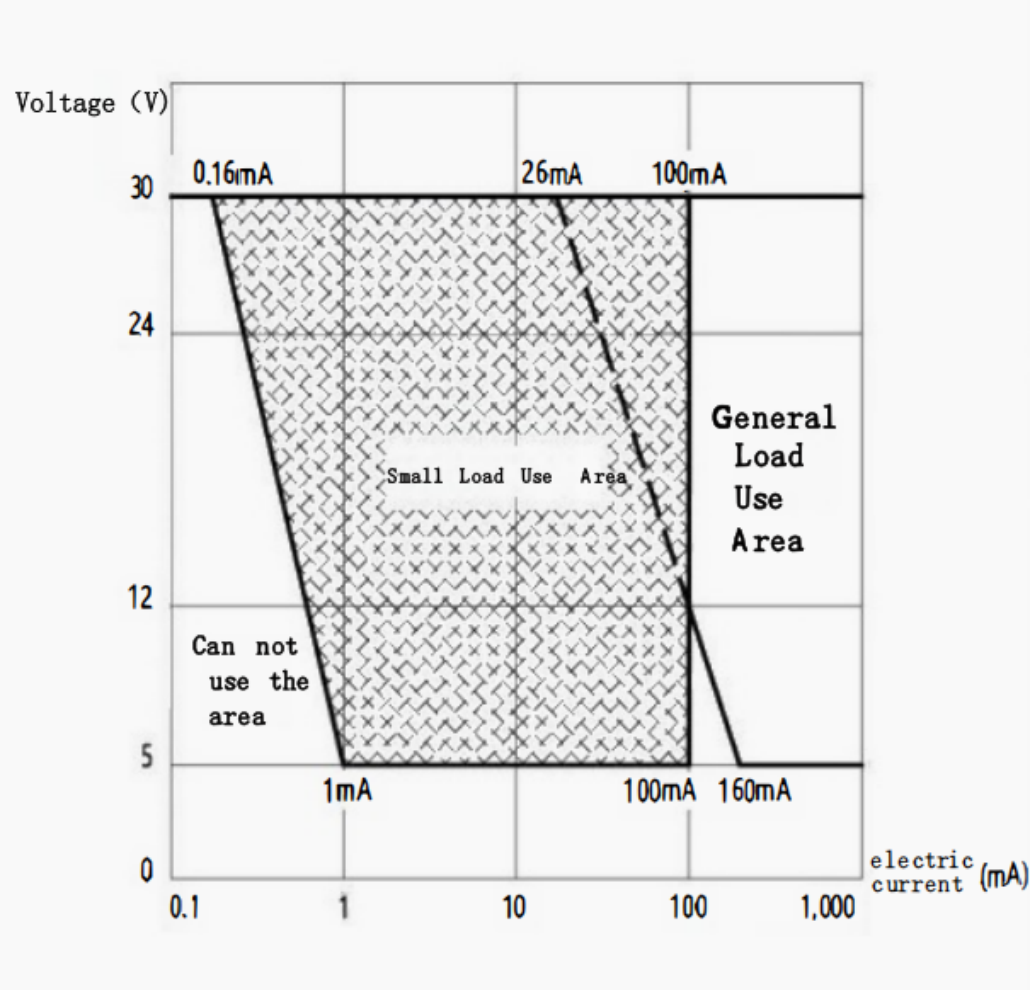
REGARDING Terminals

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

CONTACT US

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