

●General introduction to switches

- 1.It can be used for 0.1A, 3A, 5A, 10A and other application loads. The products have UL, CQC, ENEC and other relevant certifications;
- 2.Different types of levers and contact terminal shapes can be customized according to customer needs;
- 3.Product design complies with IEC61058 and UL1054.
- 4.Products comply with ROHS and REACH regulations.



●Switch basic parameters

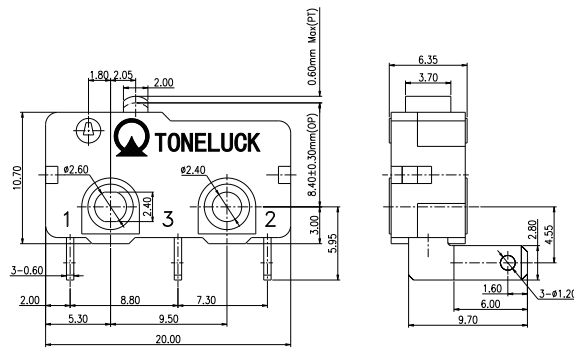
Mechanical life	500,000 cycles
Insulator resistance	100 MΩ min.
Electric strength	1000VAC for 60+/-5 sec
shell material	UL 94V-0 Thermoplastic
Point material	silver alloy

Product type	Use ambient temperature	Rated load	Electrical life
MQS-1	40T85	5A 125VAC (UL)	6,000 cycles min.
		3A 125/250VAC (ENEC)	50,000 cycles min.
		3A 125/250VAC (CQC)	50,000 cycles min.
MQS-14	40T125	10.1A 125/250VAC (UL)	6,000 cycles min.
		10(2)A 125/250VAC (ENEC)	10,000 cycles min.
		10(2)A 125/250VAC (CQC)	10,000 cycles min.
MQS-15	40T85	10.1A 125/250VAC (UL)	6,000 cycles min.
		10(2)A 125/250VAC (ENEC)	10,000 cycles min.
		10(2)A 125/250VAC (CQC)	10,000 cycles min.
MQS-16	40T125	0.1A 125/250VAC (ENEC)	50,000 cycles min.
		0.1A 125/250VAC (CQC)	50,000 cycles min.
MQS-17	40T85	0.1A 125/250VAC (ENEC)	50,000 cycles min.
		0.1A 125/250VAC (CQC)	50,000 cycles min.
MQS-18	40T125	5A 125/250VAC (UL)	6,000 cycles min.
		5A 125/250VAC (ENEC)	50,000 cycles min.
MQS-19	40T85	5A 125/250VAC (UL)	6,000 cycles min.
		5A 125/250VAC (ENEC)	50,000 cycles min.
		5A 125/250VAC (CQC)	50,000 cycles min.
MQS-1D	40T85	5A 30VDC	10,000 cycles min.
MQS-1F	40T85	6A 24VDC	50,000 cycles min.

●Switch selection

MQS-1	A	P	F1	01	-	S	01
Product type							
MQS-1	MQS-14	MQS-15	MQS-16	MQS-17	MQS-18	MQS-19	MQS-1D MQS-1F
Circuit							
A=SPDT B=SPST-NC C=SPST-NO							
Terminal type							
A,B,C,...							
Operating force							
F1=80±20 F2=130±30 F3=160±30 F4=230±40							
(The above force only refer to switch without lever.)							
(for MQS-14, MQS-15, only F4 is available;only MQS-1D MQS-1F F3=160±40 F4=220±50)							
Leverage type							
01,02,03 ... (00 = No lever MH = Plunger type Mushroom head)							
Contact Plating							
S = Standard silver G = Gold over silver							
Version							
01 = Standard							

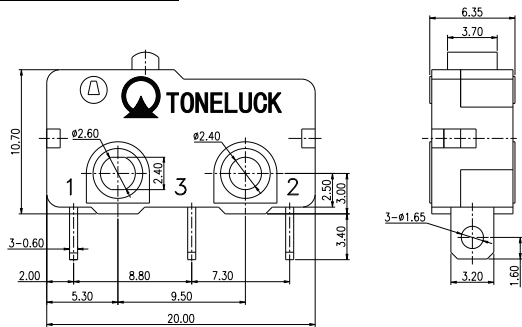
● Switch installation dimensions and precautions



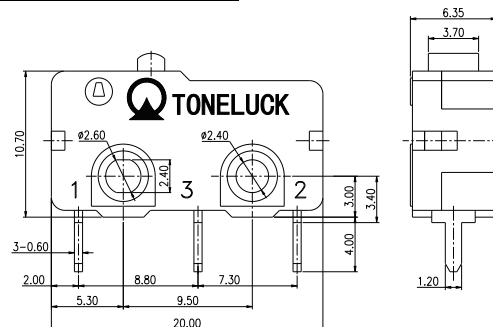
1: COM 2:NC 3:NO

● Switch terminal type (can be ordered)

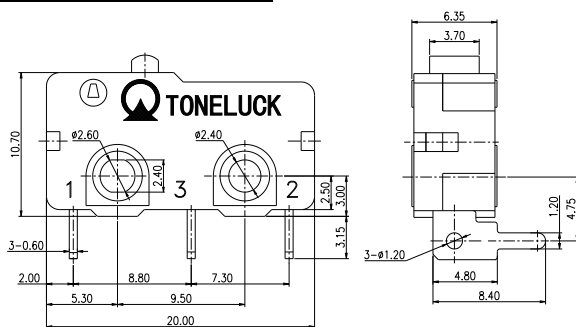
Type A: Solder Terminal



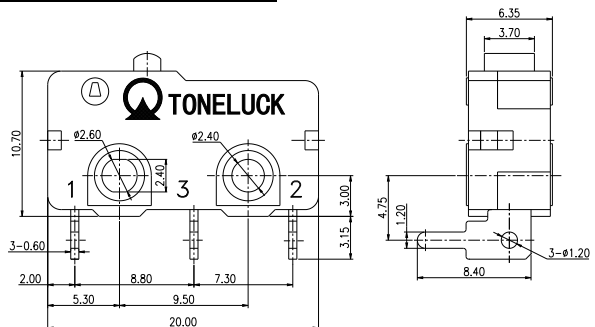
Type P: PCB terminals, Straight



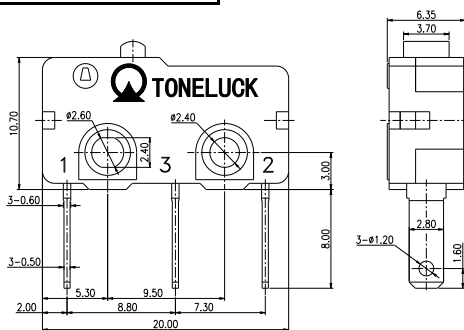
Type B: PCB terminals, Right Bent



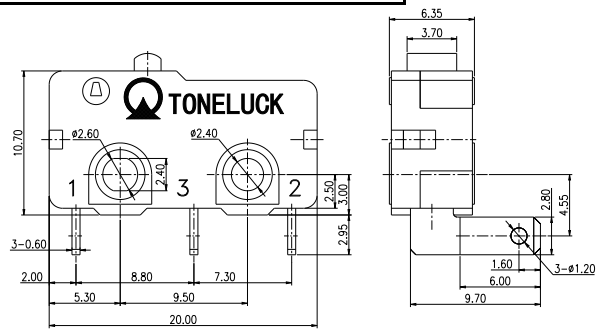
Type C: PCB terminals, Left Bent



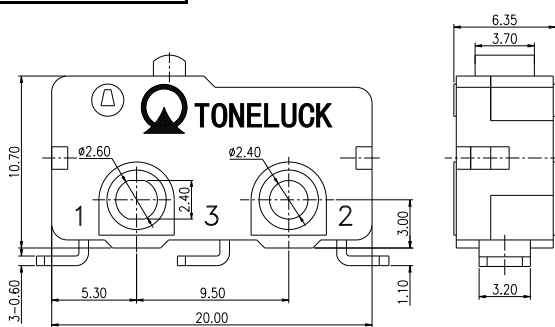
Type D: Quick connect terminals



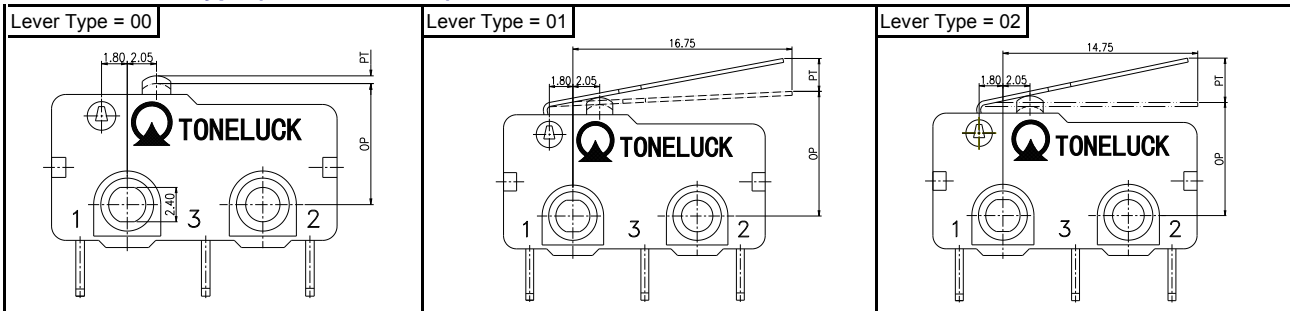
Type E: Quick connect terminals, Right Bent



Type Z: Solder terminals



● **Switch lever type (can be ordered)**



The correct use of switches and precautions

Proper Use of Switches

The load ratings indicated above are the life expectancy of the actual equipment under standard test conditions (ambient temperature: 5~35°C relative humidity: 45~85%RH atmospheric pressure: 86~106KPa). Please make sure that not only the load conditions but also the environment and operating conditions are the same.

Proper selection of switches

Select the appropriate switch according to the operating environment and load conditions. Select the appropriate switch according to the rated current, voltage, operating force, return force, terminal type, and lever type from the catalog. Select the appropriate switch from the catalog for the type of lever. The use of a lower current switch instead of a higher current switch may result in insufficient switch life and serious damage to the electrical equipment; the use of a higher current switch instead of a lower current switch may affect the contact reliability of the switch, especially in digital circuits, and may result in circuit logic confusion.

Correct Installation

When fastening the switch, it is recommended to use a graduated screwdriver with a torque of 2~4Kg.cm (screws M2.3 specification) for fastening. Too large a torque may cause deformation or damage to the housing, degradation of the switch's performance, or, in severe cases, failure of the switch's function.

Storage

Keep away from contaminated gases, organic gases, dust and humidity. If the switch case is not sealed, there is a chance that the surface of the switch contacts will be contaminated or corroded, and the switch performance will be degraded.