●Basic parameters of switch

Mechanical life	1,000,000 cycles min.
Insulation resistance	100 MΩ min.
Electrical strength	1000VAC for 60 +/- 5 sec
Casing material	UL 94V0 Thermoplastic
Contact resistance	50mΩ max. initial

Model	Temperature	Contact Type	Rated load	Electrical Life (Cycle) UL1054	IEC61058	IEC60335	UL858
L41	[40 T 85]	A1	0.1A 125/250VAC	100000	50000	-	-
L42	[40 T 85]	A1	5.0A 125/250VAC	100000	-	-	-
			5(1)A 250VAC		50000	-	-
L50	[40T105]	A2	0.1A 125/250VAC	100000	100000	-	-
			0.1A 30VDC	100000	100000	-	-
L51	[40T125]	A1	0.1A 125/250VAC	100000	50000	-	-
			0.1A 30VDC	-	50000	-	-
L52	[40T125]	A1	5.0A 125/250VAC	100000		-	-
			5(1)A 250VAC		50000	-	-
L53	[40T85]	A1	0.1A 125/250VAC	-	50000	YES	-
L54	[40T125]	A1	5.0A 125/250VAC	-	50000	YES	-
L61	[40T150]	A1	0.1A 125/250VAC	100000	-	-	6000+94000(Without load)
			2A 125/250VAC		-	-	6000+94000(Without load)
			0.1A 30VDC	6000	-	-	-
		A2	0.1A 125/250VAC	-	100000	-	-
			0.1A 30VDC	-	100000	-	-
L62	[40T150]	A1	5A 125/250VAC	100000	-	-	6000+94000(Without load)
L71	[40T200]	A1	0.1A 125/250VAC	100000	-	-	6000+94000(Without load)
			0.1A 30VDC	6000	-	-	-
			1A 30VDC	6000	-	-	
L72	[40T200]	A1	5A 125/250VAC	100000	-	-	6000+94000(Without load)
			0.1A 30VDC	6000	-	-	
			1A 30VDC	6000	-	-	
L91	[40T220]	A1	0.1A 125/250VAC	100000	-	-	6000+94000(Without load)
L92	[40T220]	A1	5A 125/250VAC	100000	-	-	6000+94000(Without load)

●Switch Selection

L41	A	D	-	A	A	00	AG	-	01

Product Type

L41 ~ L92

Circuit

A: SPDT
B: SPST-NC C:
SPST-NO

Operational force	Difference	Resilience
D: 8 ~ 15gf	MD: 0.30mm max	df: 6gf max
F: 13 ~ 25gf G:	MD: 0.30mm max	df: 9gf max
25 ~ 50gf H: 8 ~	MD: 0.30mm max	df: 16gf max
15gf	MD: 0.15mm max	df: 4gf max
J: 60 ~ 120gf	MD: 0.40mm max	df: 20gf max

Terminal Type

A,B,C,D… *(Ref. to the table)*

Lever Position

A: Standard Low Gear Position
B: High Gear Position
N: Pin Plunger, no external actuator

Leverage Type

01, 02, 03 …
00 = No Lever *(Ref. to the table)*

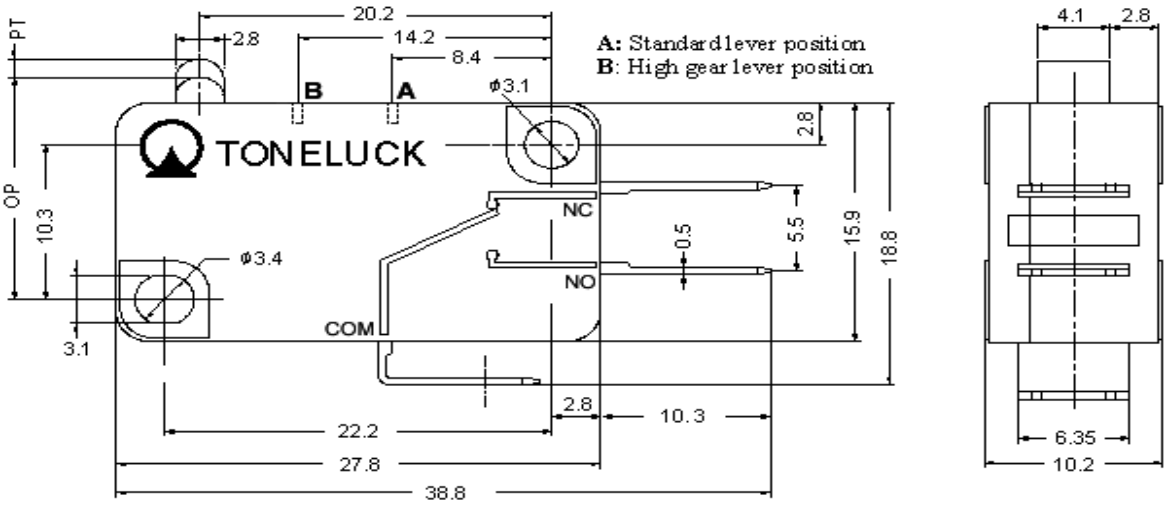
Contact Type

A1: Serrated Silver Contact A2: Gold Crosspoint (See comment)

Version

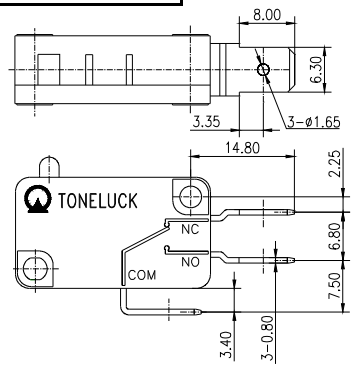
01 = Standard

● Switch installation dimensions and precautions

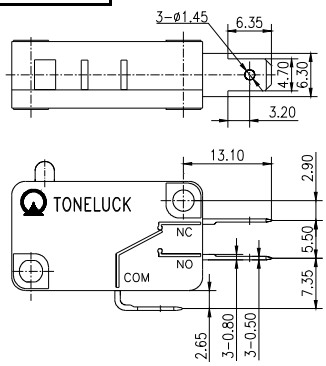


● Quick connect terminal

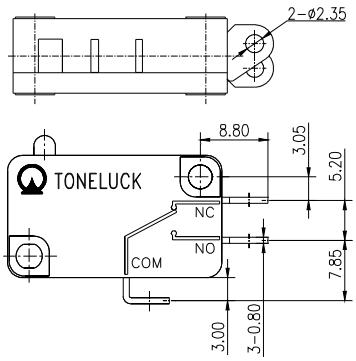
Type A: Quick connect Terminal



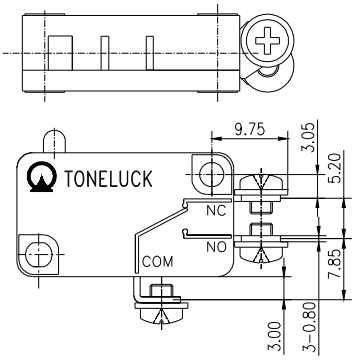
Type B: Quick connect Terminal



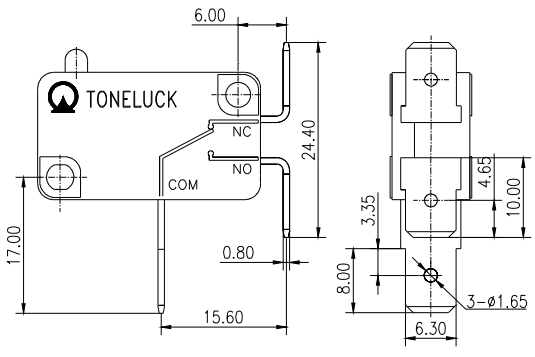
Type C : Solder Terminal



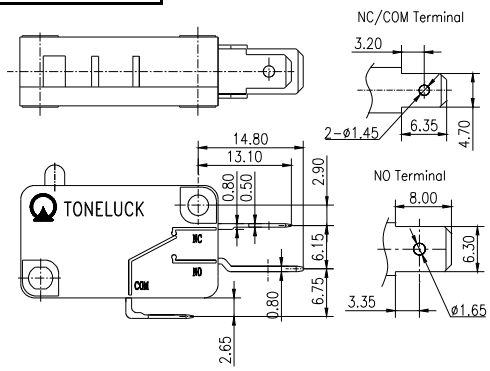
Type D: Screw Terminal



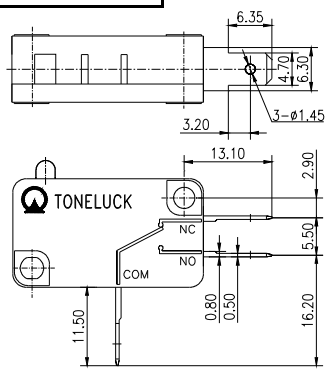
Type F: Quick connect Terminal



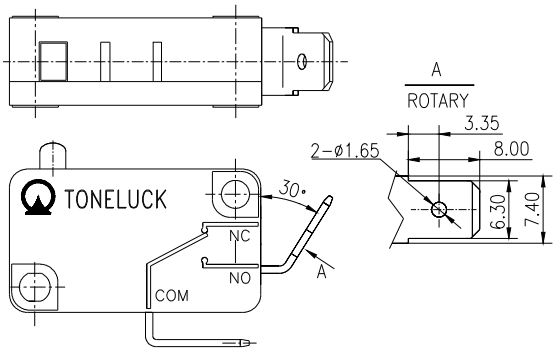
Type G: Quick connect Terminal



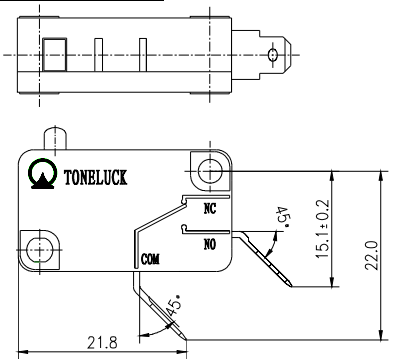
Type H: Quick connect Terminal



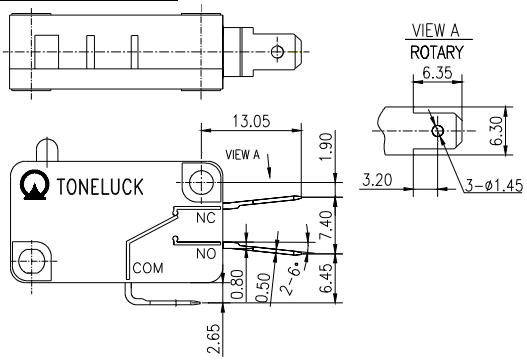
Type I: Quick connect Terminal



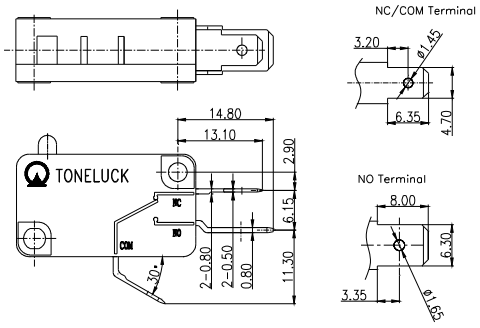
Type J: Quick connect Terminal



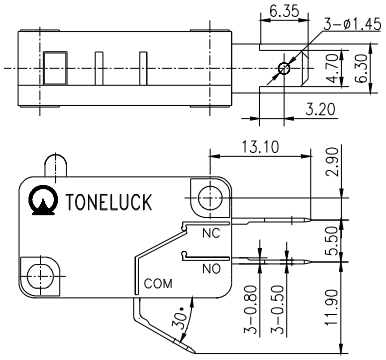
Type K: Quick connect Terminal



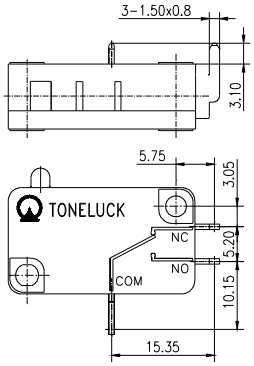
Type L: Quick connect Terminal



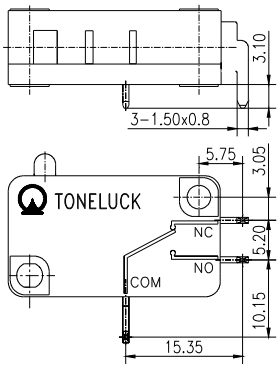
Type M: Quick connect Terminal



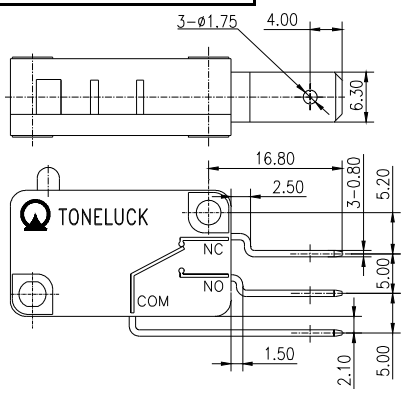
Type P: PCB Terminal-Right



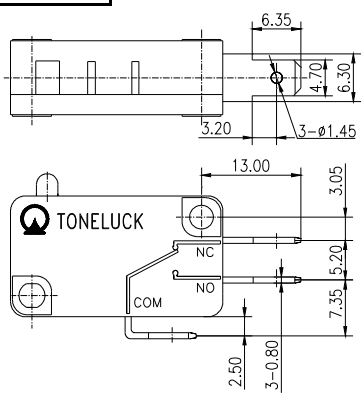
Type Q: PCB Terminal-Right



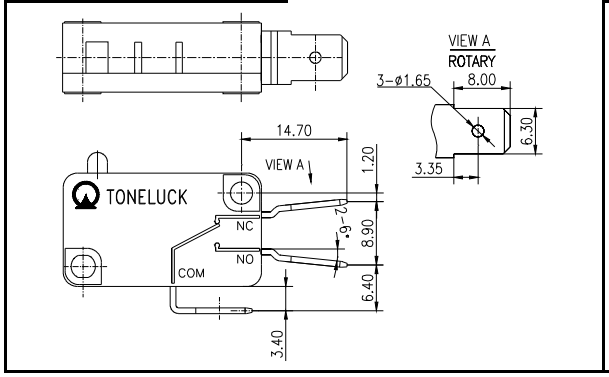
Type R: Quick connect Terminal



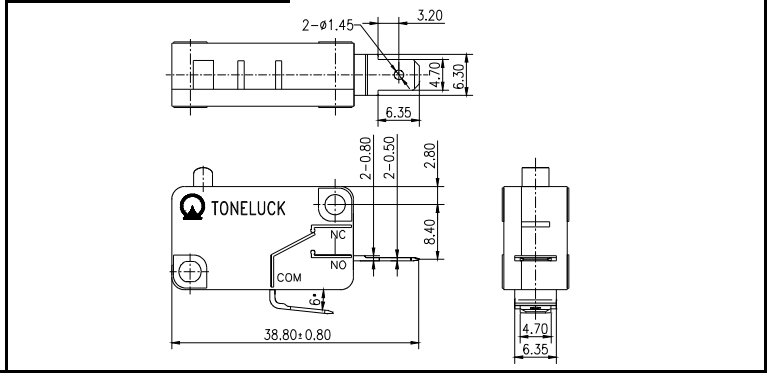
Type S: Quick connect Terminal



Type T: Quick connect Terminal

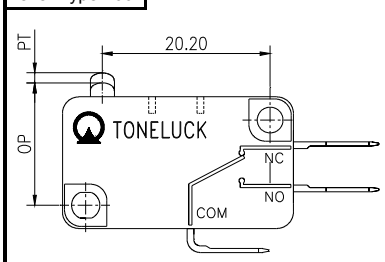


Type U: Quick connect Terminal

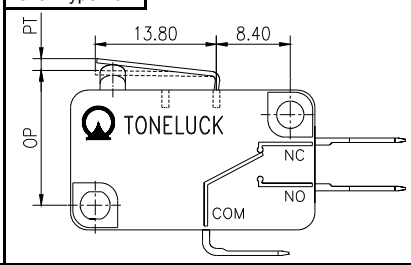


●Quick connect terminal

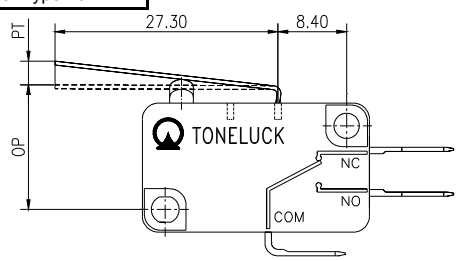
Lever Type= 00



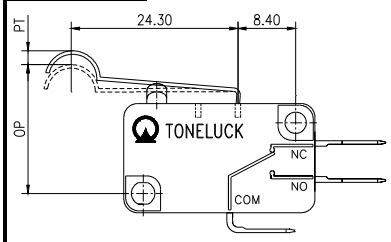
Lever Type= 01



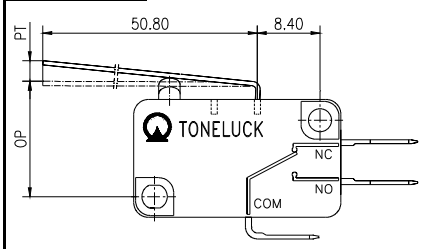
Lever Type= 02



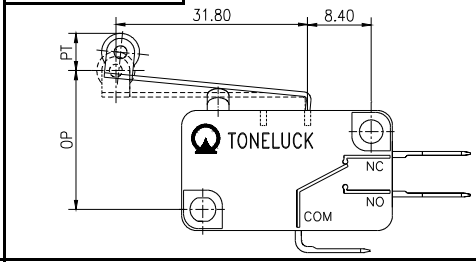
Lever Type= 03



Lever Type= 04



Lever Type= 05



●Correct use of the switch and precautions

Correct use of switches

The rated load value indicated above refers to the life that can be achieved when using actual equipment under standard test conditions (ambient temperature: 5~35℃, relative humidity: 45~85%RH, atmospheric pressure: 86~106KPa). Please confirm that not only the load conditions are the same when using, but also the conditions of the environment and the state of use must be the same;

Correct use of switches

Please select the appropriate switch according to the use environment and load conditions;
Please select the appropriate switch in the catalog according to the rated current, voltage, operating force, return force, terminal type, and lever type;
Using a smaller current switch instead of a larger current switch will result in insufficient switch life and serious damage to electrical equipment; using a larger current switch instead of a smaller current switch will affect the contact reliability of the switch, especially in digital circuits, which will cause confusion in circuit logic.

Correct installation

When tightening the switch, it is recommended to use a torque-grade screwdriver and tighten it with a torque of 4~6Kg.cm (the screw is M3 specification). Too much torque can cause the shell to deform or be damaged, the switch performance to decline, and in severe cases, the switch function to fail;

Storage of the switch

Please avoid polluted gas, places where organic gas is produced, dust, humid environment, etc. The switch shell is not sealed, and the above environment may cause the switch contact surface to be contaminated or corroded, and the switch performance to decline;