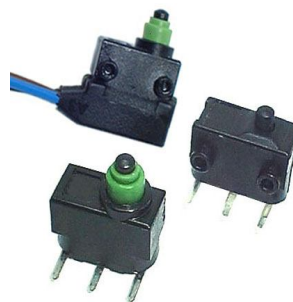


Specification

Electrical rating	2A/12VDC, 40T85, 100000 cycles 2A/24VDC, 40T85, 50000 cycles 10mA/12VDC, 40T85, 250000 cycles 0.1mA/250VAC, 40T85, 50000 cycles 0.5mA/250VAC, 40T85, 10000 cycles
Mechanical Life	1,000,000 cycles
Contact Resistance:	50mΩ Max. (initial)
Insulation Resistance	100 MΩ Min.
Dielectric Strength	500VAC for 60 ± 5 sec.
Housing	UL94 V-0



IP Protection

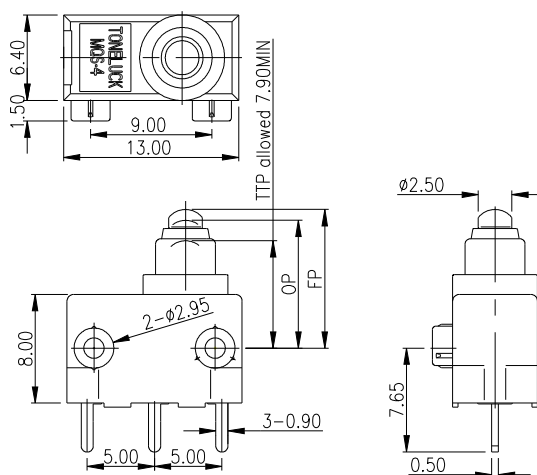
Series	Actuation Side	Terminal Side	OF	OP
MQS-41	IP 40	IP 00	50 - 150 gf	6.15±0.3mm
MQS-42	IP 67	IP 00	50 - 200 gf	9.40±0.3mm
MQS-43	IP 67	IP 67	50 - 200 gf	9.40±0.3mm

Ordering Instruction

MQS-41	1	A	A	00	Ag	01
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Series						
MQS-41						
MQS-42						
MQS-43: second molding with wire						
Electrical rating						
1= 2A/12VDC,SPDT						
2= 10mA/12VDC,SPDT						
3= 0.1A/250VAC,SPDT						
4= 2A/12VDC,SPST-NO						
5= 10mA/12VDC,SPST-NO						
Location Pin						
A = Side A, 1.5mm						
B = Side B, 1.5mm						
C = Both Sides, 1.5mm						
D = Side A, 2.5mm						
E = Side B, 2.5mm						
Terminal Type						
A=Angled PCB pins, side A						
B=Angled PCB pins, side B						
C=Straight PCB pins						
D=Straight crimped PCB pins						
E=Solder terminal						
F=Terminal B						
Lever Type						
00,01,02,03 ... (00 = No lever) (P1= metal hat)						
Contact Plating						
Ag=Sliver Alloy						
Version						
01:Standard Version						
02:Special Version						
Custom-made:03,04,etc.						

Basic Dimensions

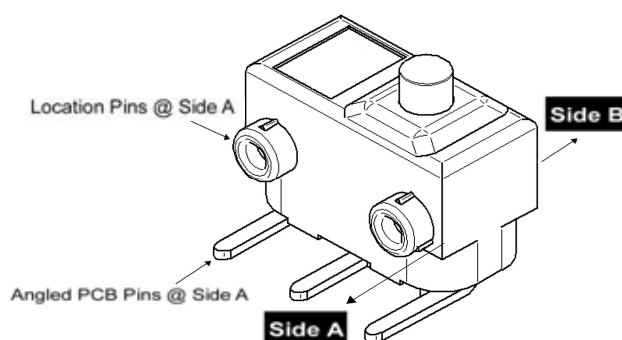


Common Characteristics

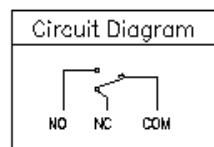
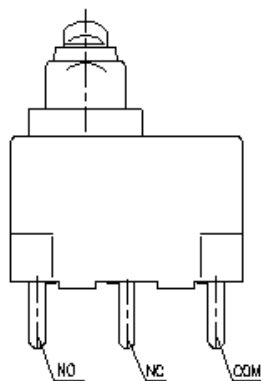
MQS-41/MQS-42: SPDT
MQS-43: SPDT, SPST-NC, SPST-NO

Movement Differential: 0.4 mm Max.
Pre-travel Distance: 1.2mm Max.
Over-travel Distance: 1.2mm Min.

Standard Contact Plating: Silver Alloy

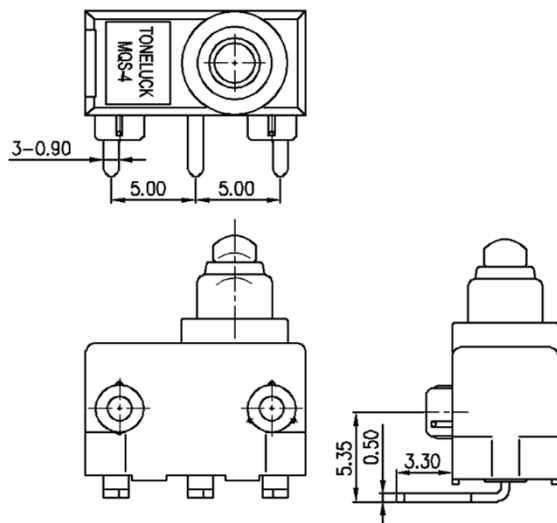


Circuit

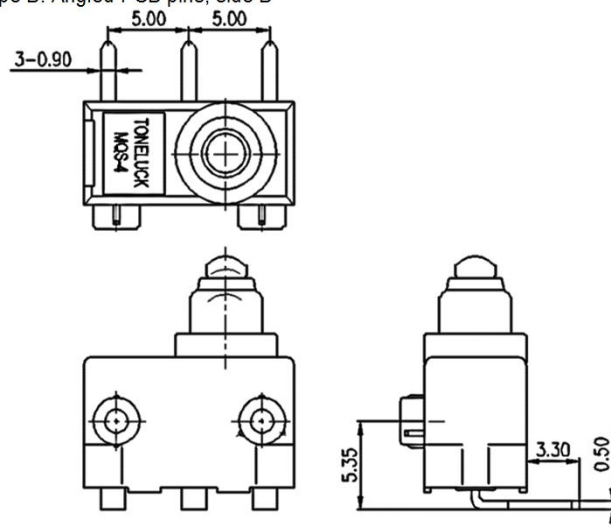


Terminal Type

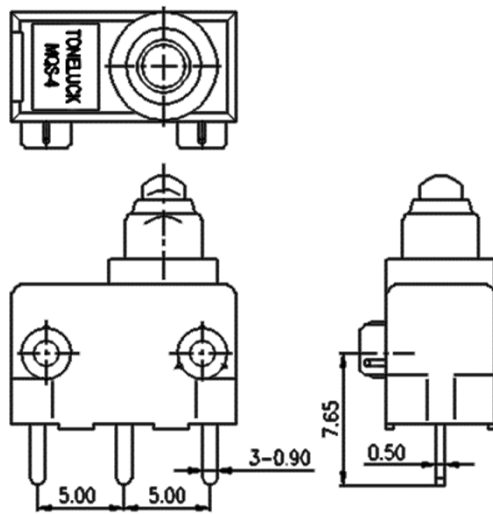
Type A: Angled PCB pins, side A



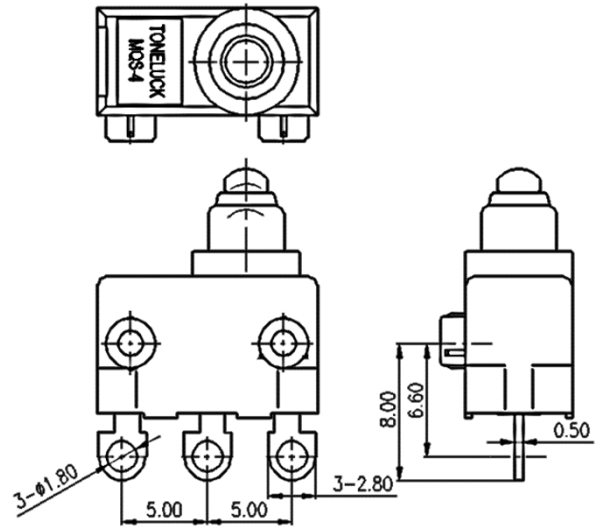
Type B: Angled PCB pins, side B



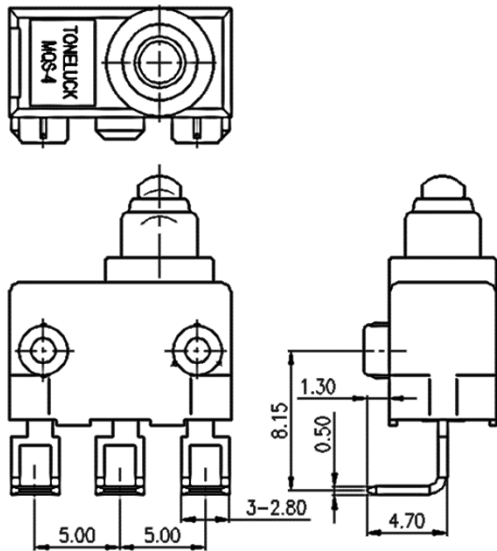
Type C: Straight PCB pins



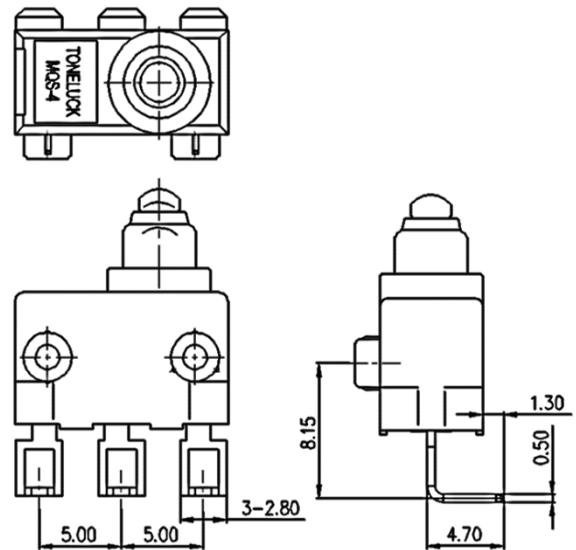
Type E: Solder terminal



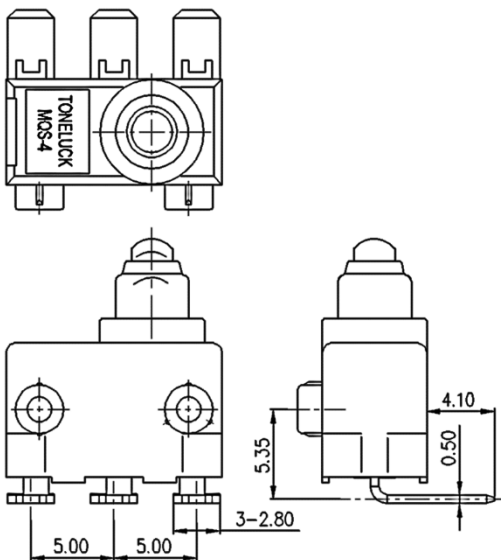
Type J: Interlock terminal, side A



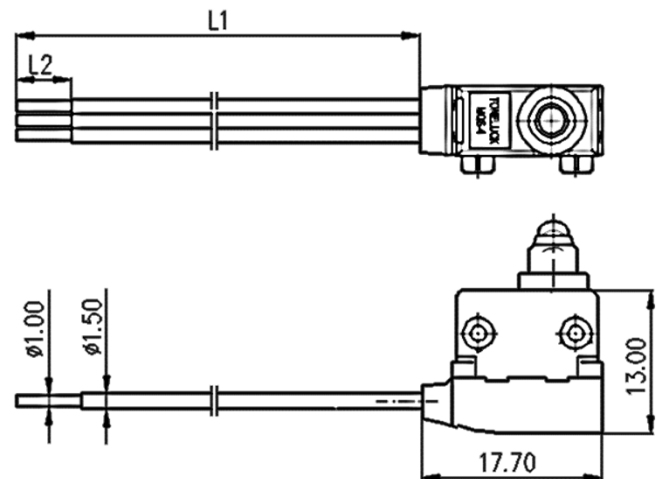
Type K: Interlock terminal, side B



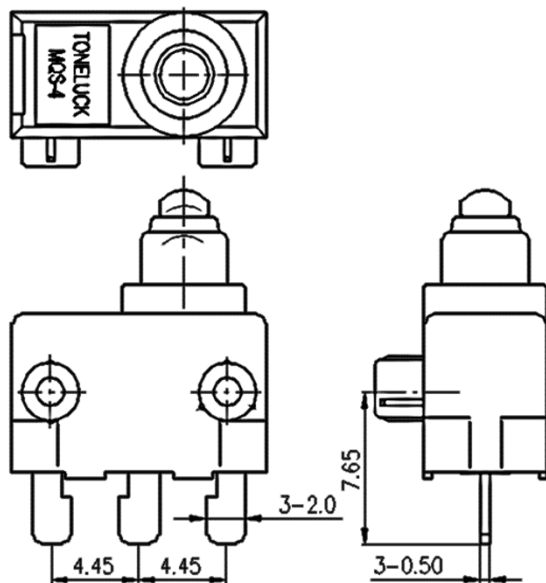
Type M: Short Interlock terminal, side B



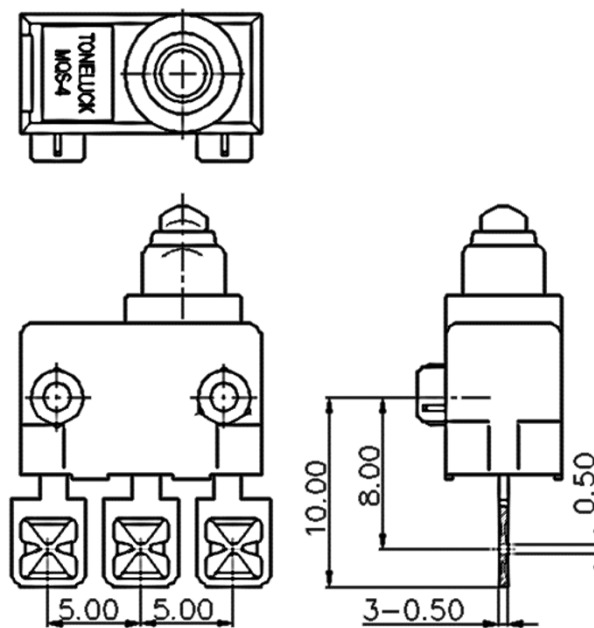
Type W: Wires Specification



Type F: Terminal B

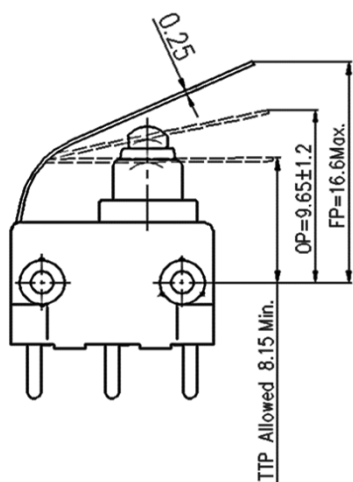


Type P: Solder-free Clamping terminal

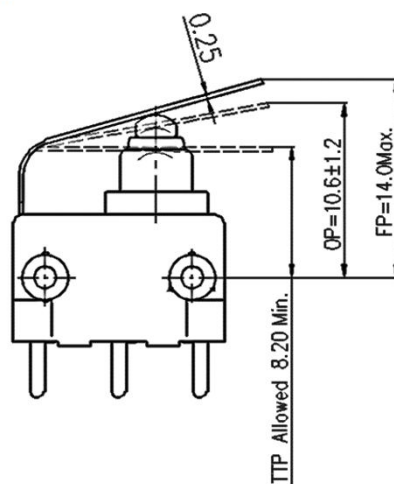


Lever type

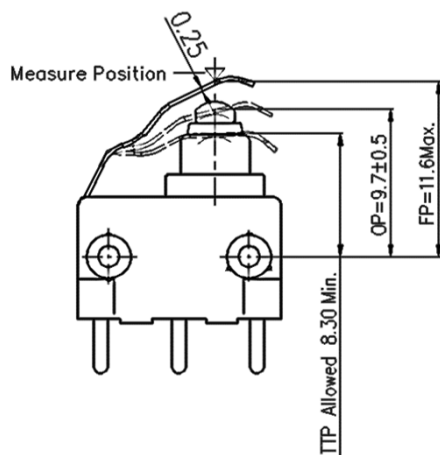
Lever Type = 01



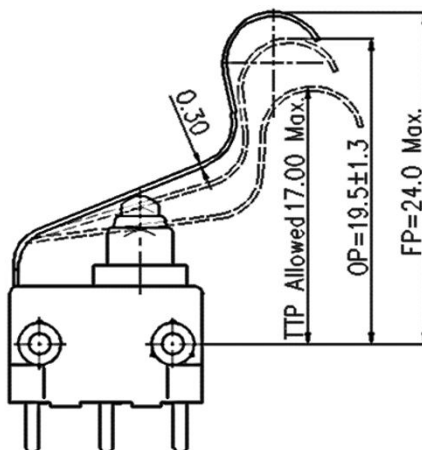
Lever Type = 02



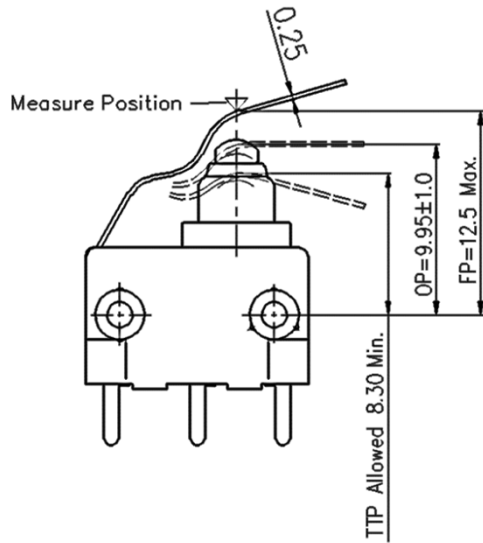
Lever Type = 03



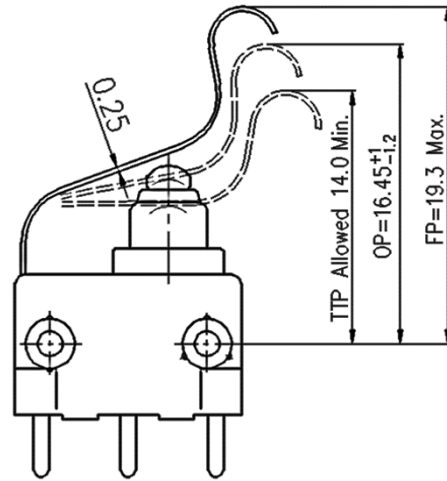
Lever Type = 04



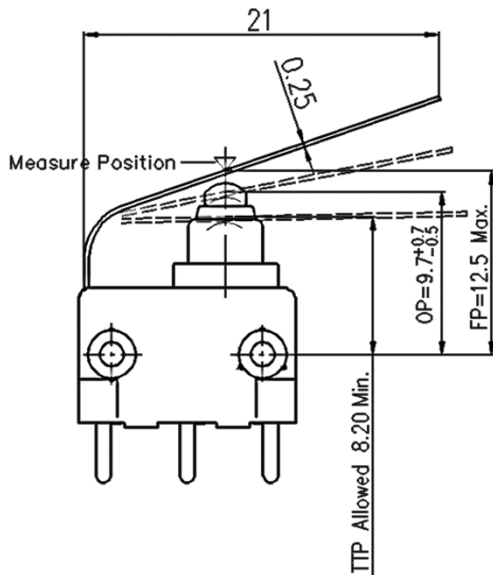
Lever Type = 05



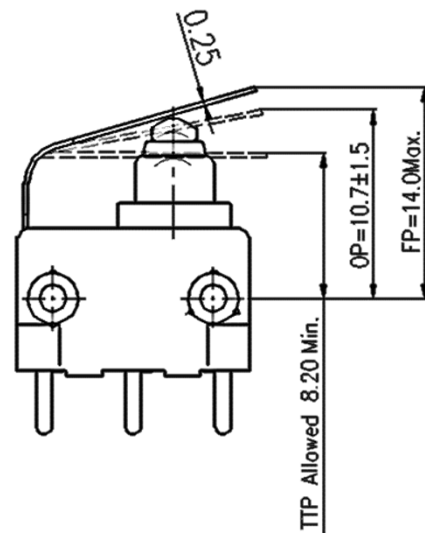
Lever Type = 06



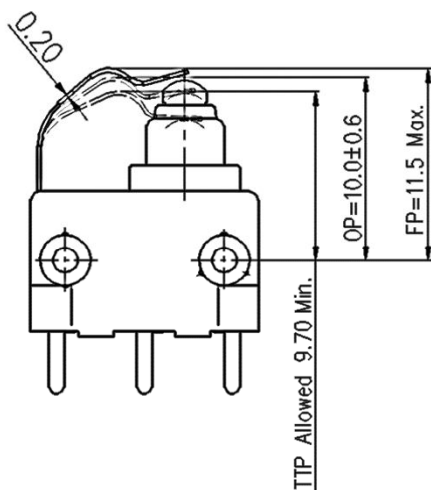
Lever Type = 07



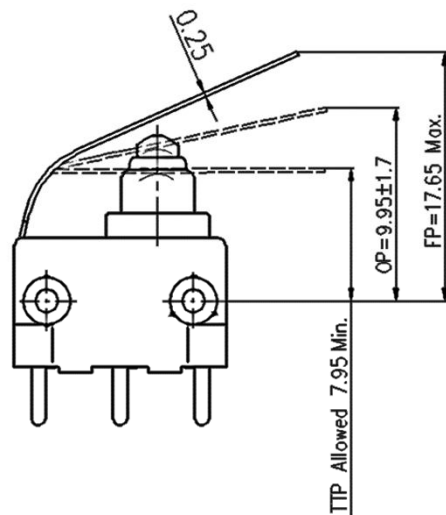
Lever Type = 08



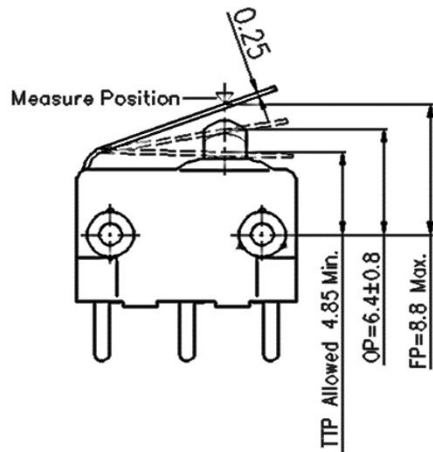
Lever Type = 09



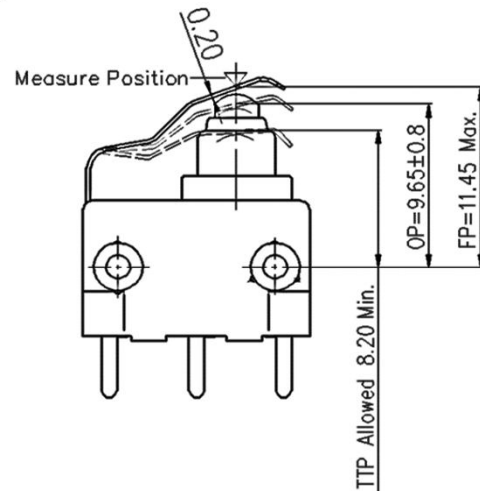
Lever Type = 10



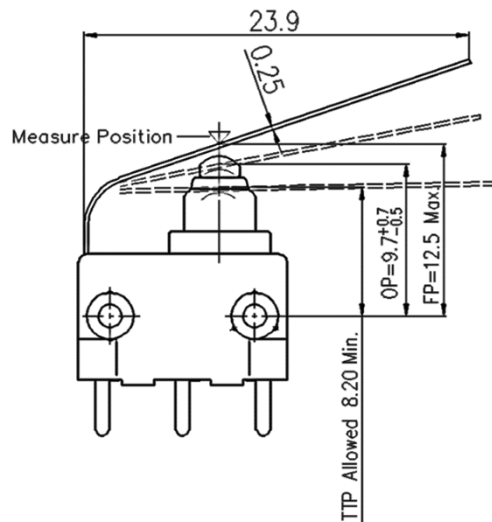
Lever Type = 11



Lever Type = 12

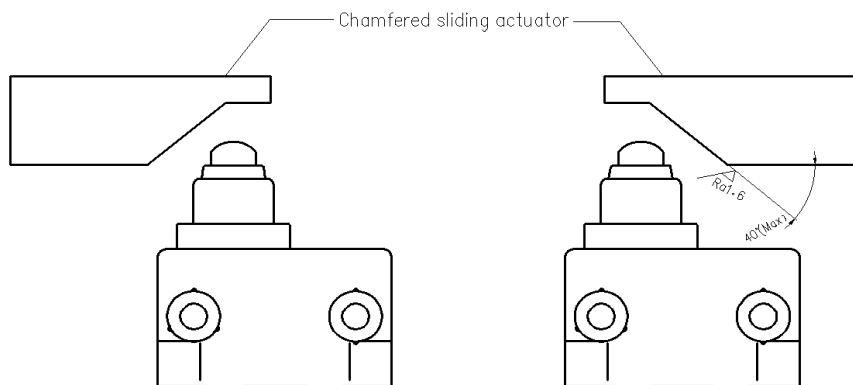


Lever Type = 13



Actuation Angle

Besides actuating the micro-switch vertically, the switch could be operated by cam-shaped or chamfered sliding actuators with an approximate value of Max. 40°. Please refer to the technical specification for the specified conditions.



The approximate value of 40° was tested under the following conditions:

- Chamfered sliding material : POM.
- Polished chamfered sliding surface, greased with lubricant oil .
- Operation frequency :30 cycles per minute.
- 0.3mm away from total travel position.
- Suggest angle $\leq 30^\circ$ if no grease on sliding surface.