

Switch

Micro Switch Series

ETC7-KW4-3Z Micro Switch Series

Features

Small contact clearance, high sensitivity
Snap action, high precision and high repeat accuracy
Flexible operating travel, wide range of operating force
Wide variety of terminal types
Wide variety of actuator forms
Adopt flame-retarded and fiber enhanced thermoplastics
Long life cycles, high reliability
Various approvals

Application

Widely applied in home appliances, medical devices, office facility, instrument and apparatus, electric motion tools, packing machinery, auto electronics etc.
Examples: vending machines, gaming machines, coffee machines, dishwashers, dryers, washing machines, microwave ovens, Central water heating, vacuum cleaners, water pump, projecting apparatus, industrial automations etc.



Specifications

Items		Value
Operating speed		0.1mm~1m/S
Operating Frequency		Mechanical 60cycles/min;
		Electrical 25cycles/min
Insulation resistance		≥100MΩ (DC500V)
Contact resistance		≤30mΩ (Initial value)
Test voltage	Between terminals of same polarity	AC1500V 50/60HZ
	Between current-carrying metal parts and ground (case)	AC3750V 50/60HZ
Vibration resistance		10~55 HZ 1.5mm Double amplitude
Shock resistance		Destruction: OF>0.5N: 1000m/S2 (approx. 100G) Max OF≤0.5N: 400m/S2 (approx. 40G) Max
		Malfunction: OF>0.5N: 200m/S2 (approx. 20G) Max OF≤0.5N: 100m/S2 (approx. 10G) Max
Life expectancy		Mechanical ≥2000000cycles
		Electrical ≥50000cycles
Degree of protection against electric		Class I /Class II
PTI		175
Approvals		UL CUL VDE TUV CE DEMKO CQC

Switch

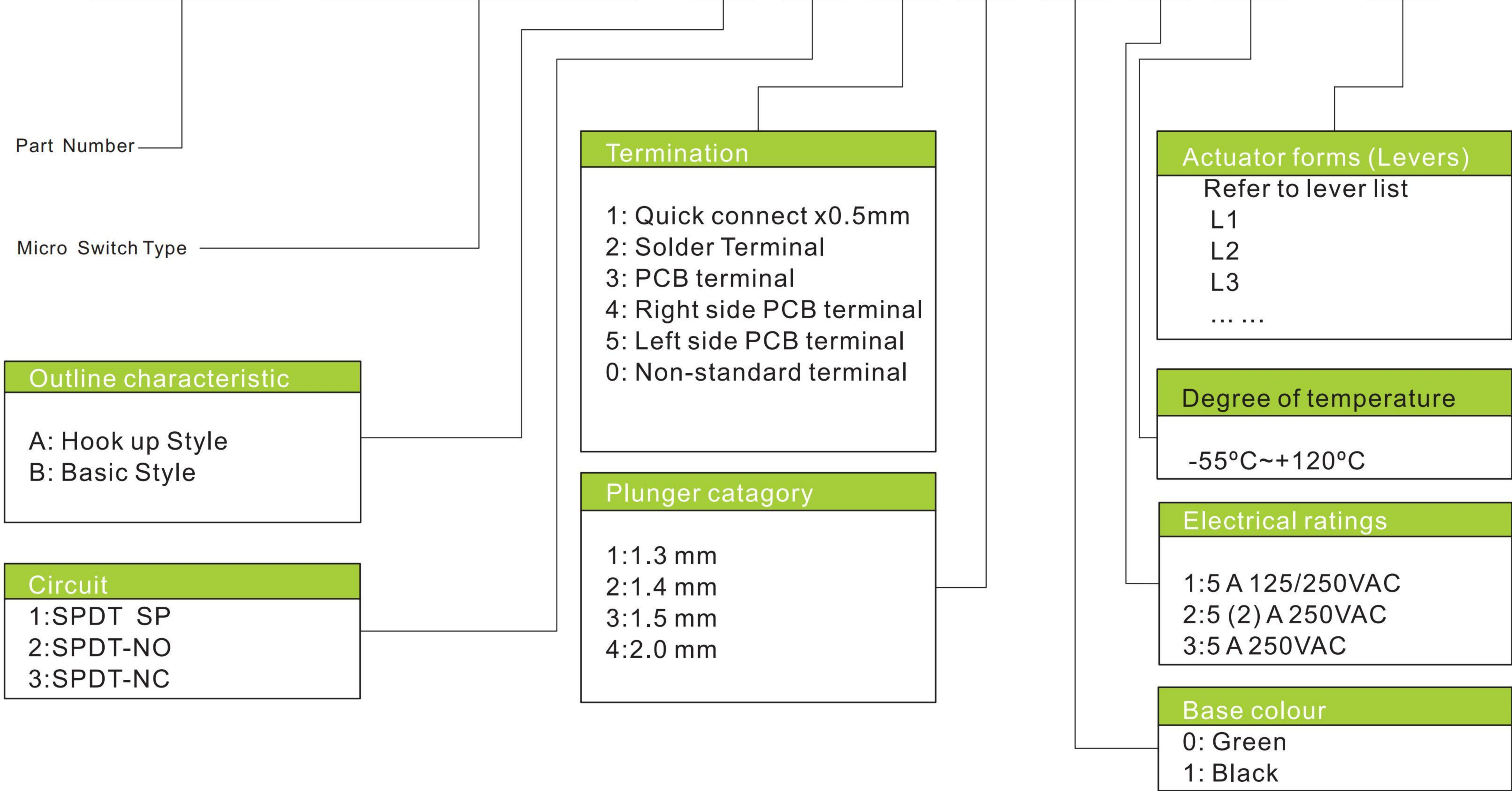
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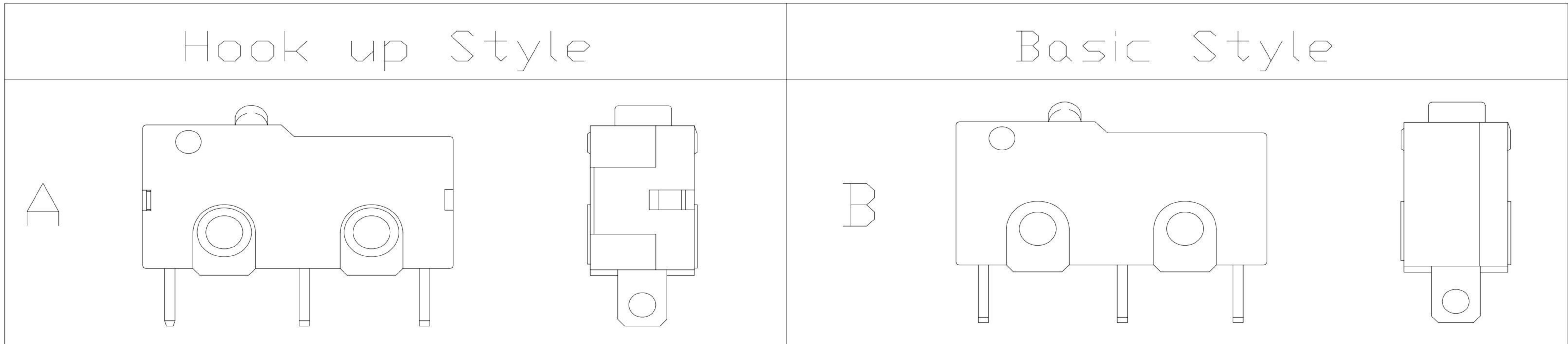
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ORDER INFORMATION

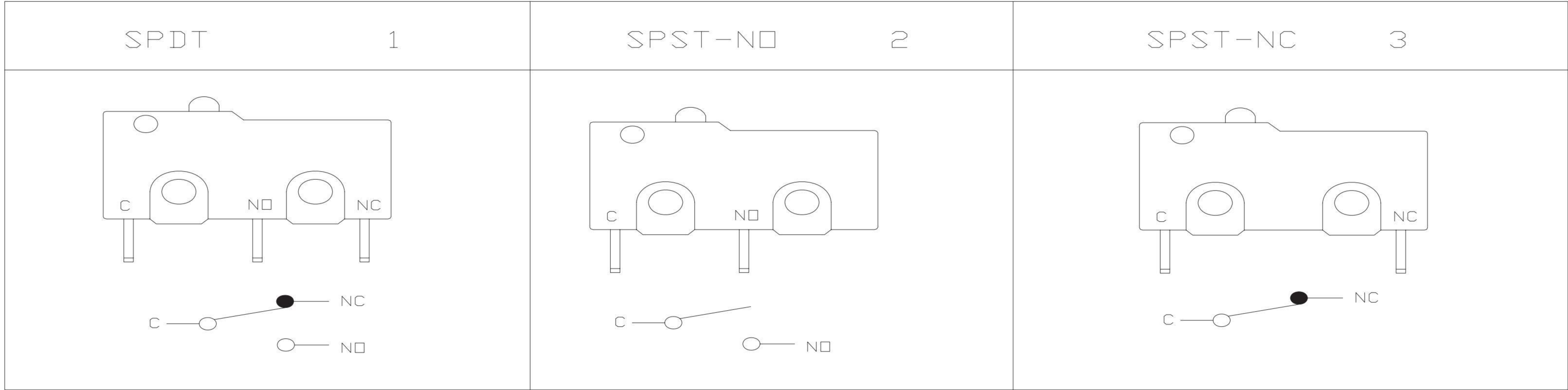
ETC7-KW4-3Z- X X X X X X X - X



Outline Charateristic



Circuit Illustration



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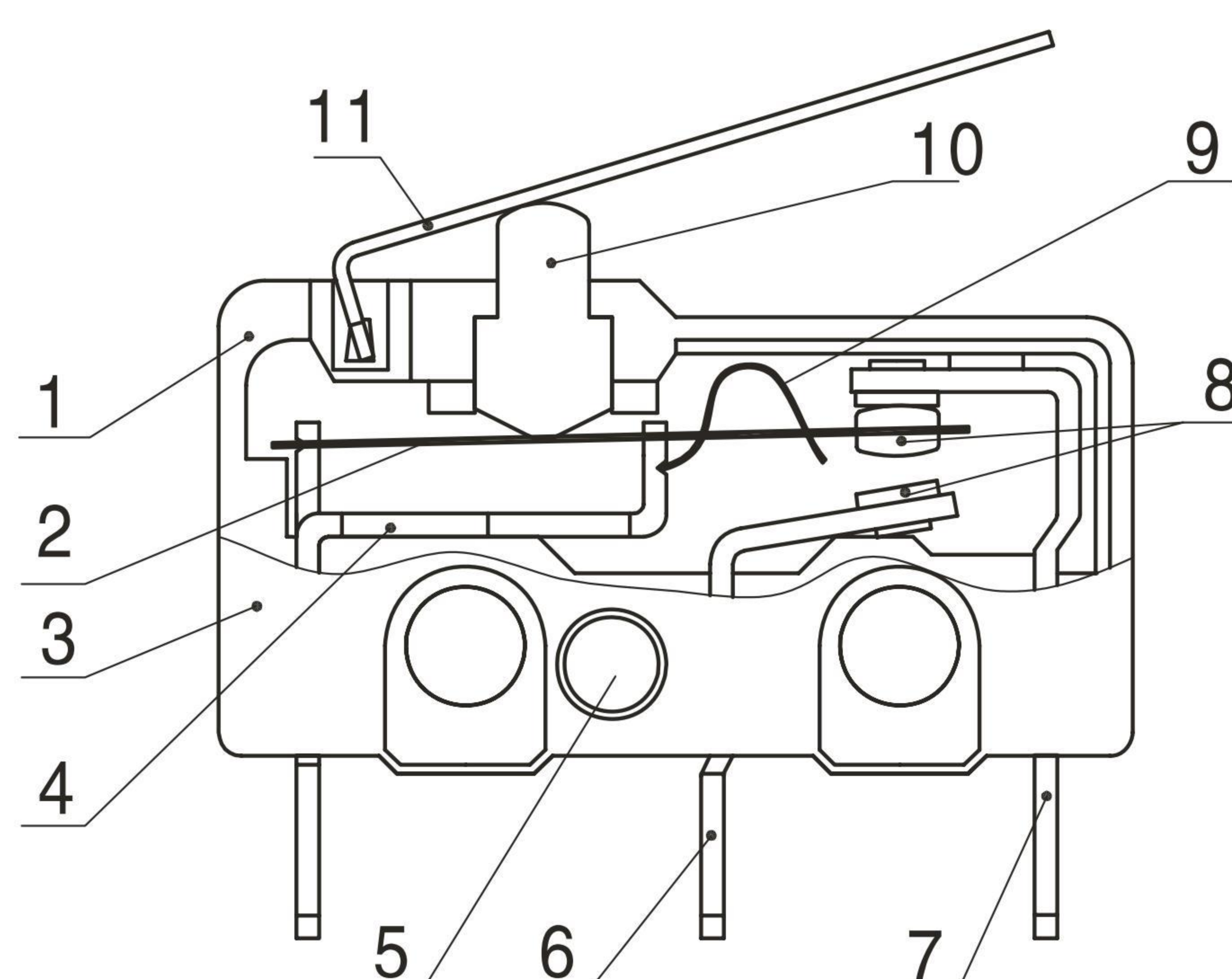
Mounting Hole Dimensions

	PCB terminal	Left side PCB terminal	Right side PCB terminal

Terminal dimensions

F Solder terminal Top view dimensions: 0.5, 1.85, 8.8, 7.3, 6.4. Labels: C, NO, NC. Bottom view dimension: 3.5. Diameter: $\varnothing 1.5$. 公共端 Common terminal NO terminal NC terminal 常开端 常閉端	T Quick connect terminal #110 Top view dimensions: 0.5, 1.85, 8.8, 7.3. Side view dimensions: 7.1, 11, 2.8. Diameter: $\varnothing 1.2$.	P PCB terminal Top view dimensions: 0.5, 1.85, 8.8, 7.3, 6.9. Side view dimensions: 3.4, 1.2, 3.4.
L Left side PCB terminal Top view dimensions: 0.5, 1.85, 8.8, 7.3, 6.4. Side view dimensions: 1.2, 5.8, 3.4, 7.9.	R Right side PCB terminal Top view dimensions: 0.5, 1.85, 8.8, 7.3, 6.4. Side view dimensions: 3.4, 5.8, 1.2, 7.9.	

Internal configuration drawing

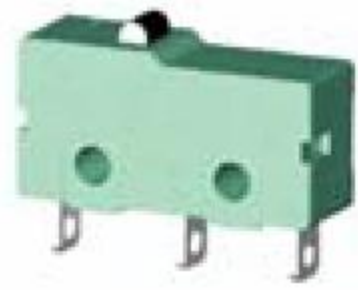


- 1 Case
- 2 Moving piece
- 3 Cover
- 4 Support
- 5 Rivet
- 6 NO terminal
- 7 NC terminal
- 8 Contact
- 9 Spring
- 10 Plunger
- 11 Moving arm(Lever)

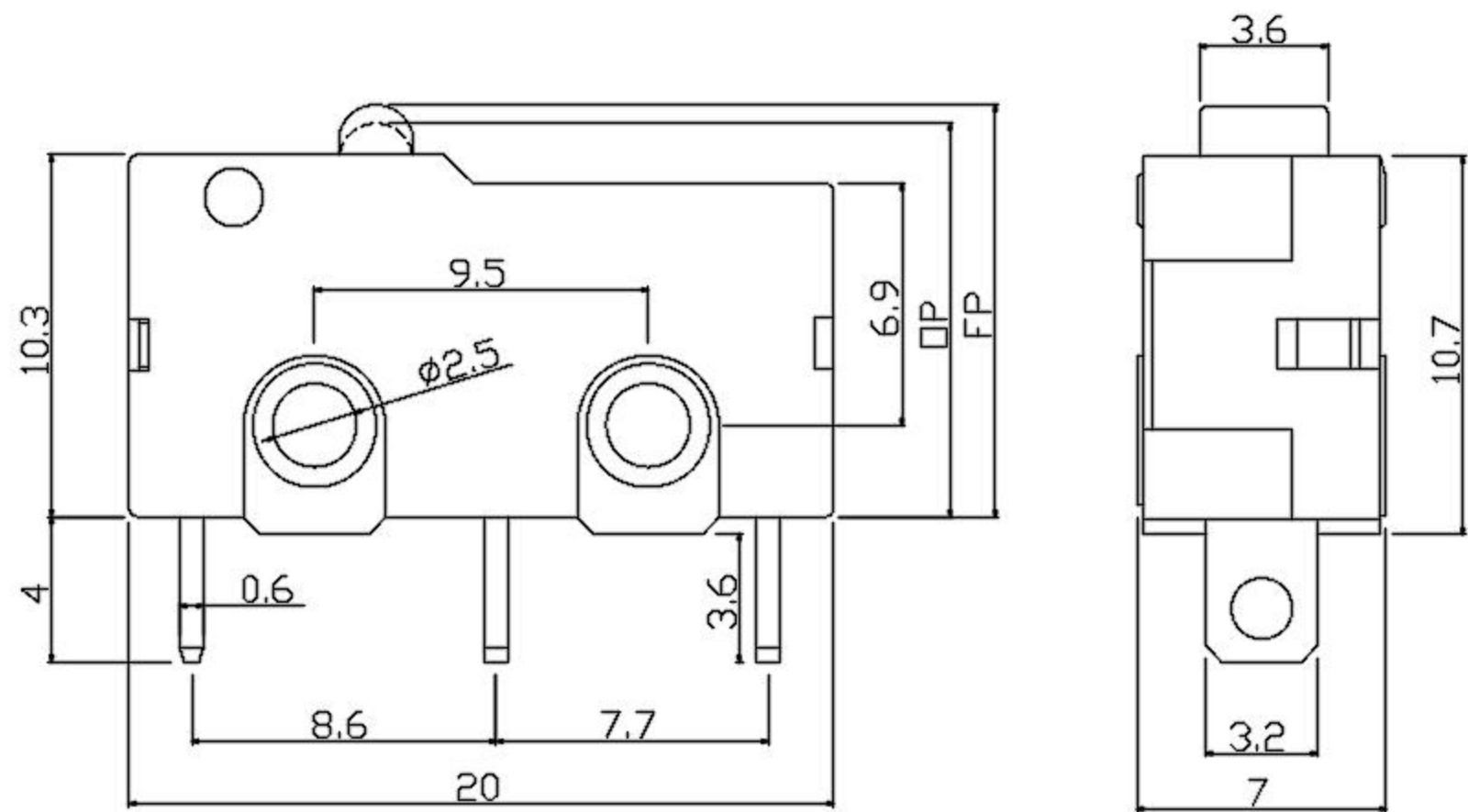
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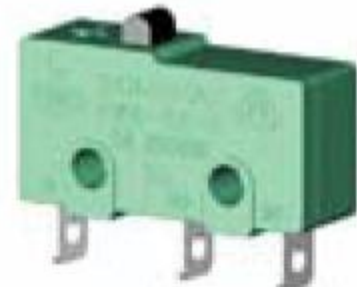
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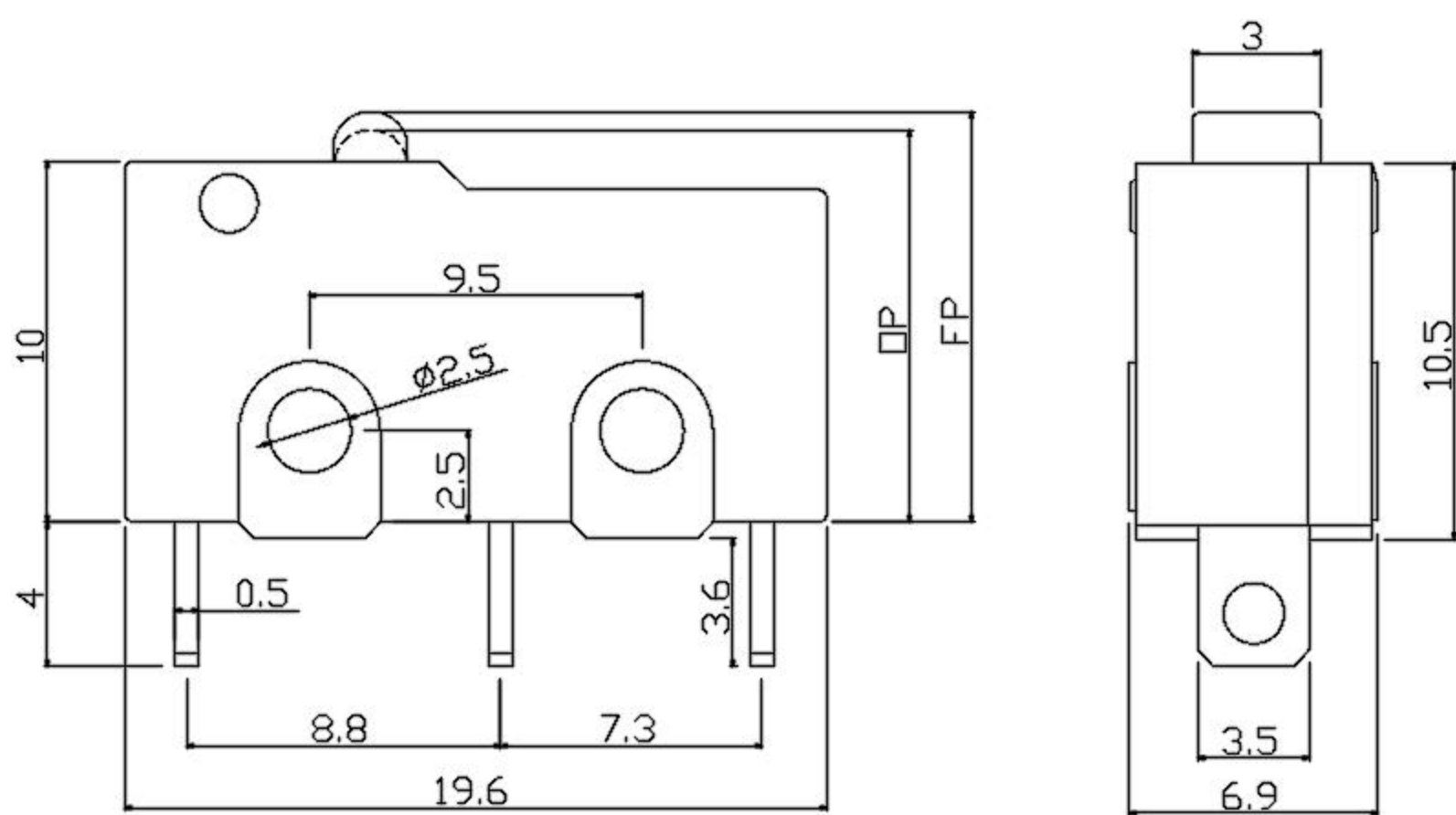
ETC7-KW4-3Z-A122013L



Model	ETC7-KW4-3Z-A122013L
□F (N)	0.2~3.0
MD Max(mm)	0.2
PT Max(mm)	12.2
□P Min(mm)	11.0



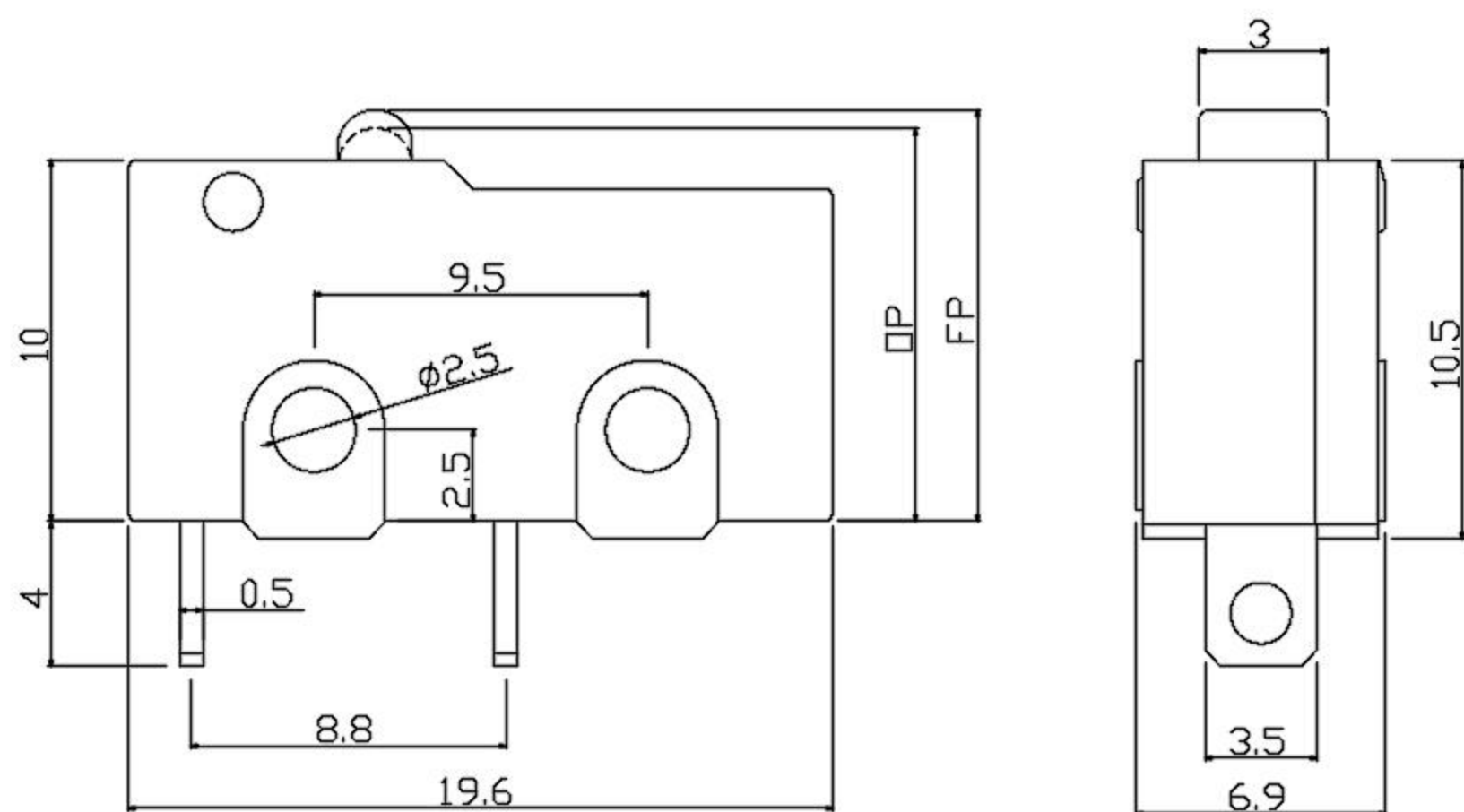
ETC7-KW4-3Z-B122013L



Model	ETC7-KW4-3Z-B122013L
□F (N)	0.2~3.0
MD Max(mm)	0.2
PT Max(mm)	12.2
□P Min(mm)	11.0



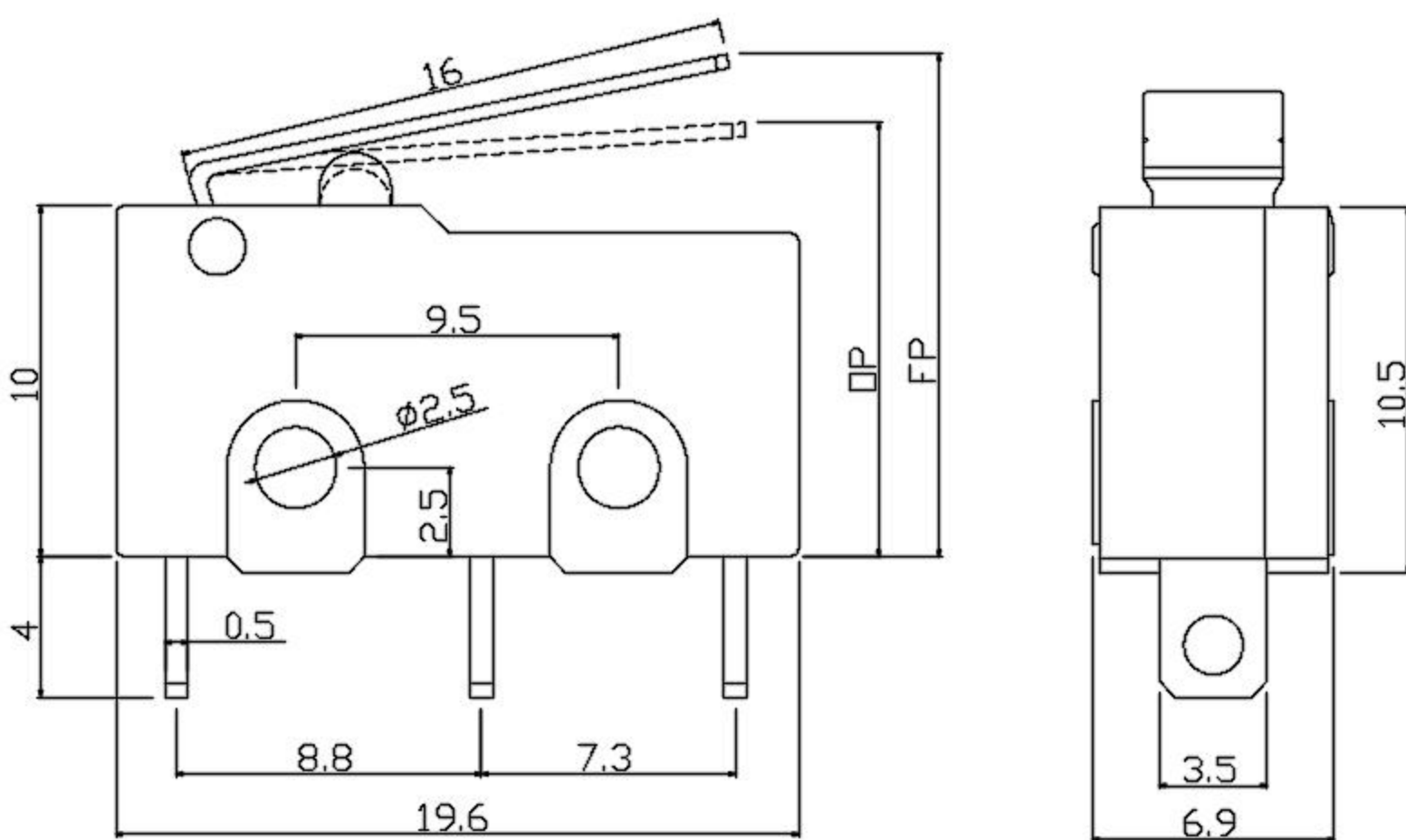
ETC7-KW4-3Z-B222013L



Model	ETC7-KW4-3Z-B222013L
□F (N)	0.2~3.0
MD Max(mm)	0.2
PT Max(mm)	12.2
□P Min(mm)	11.0



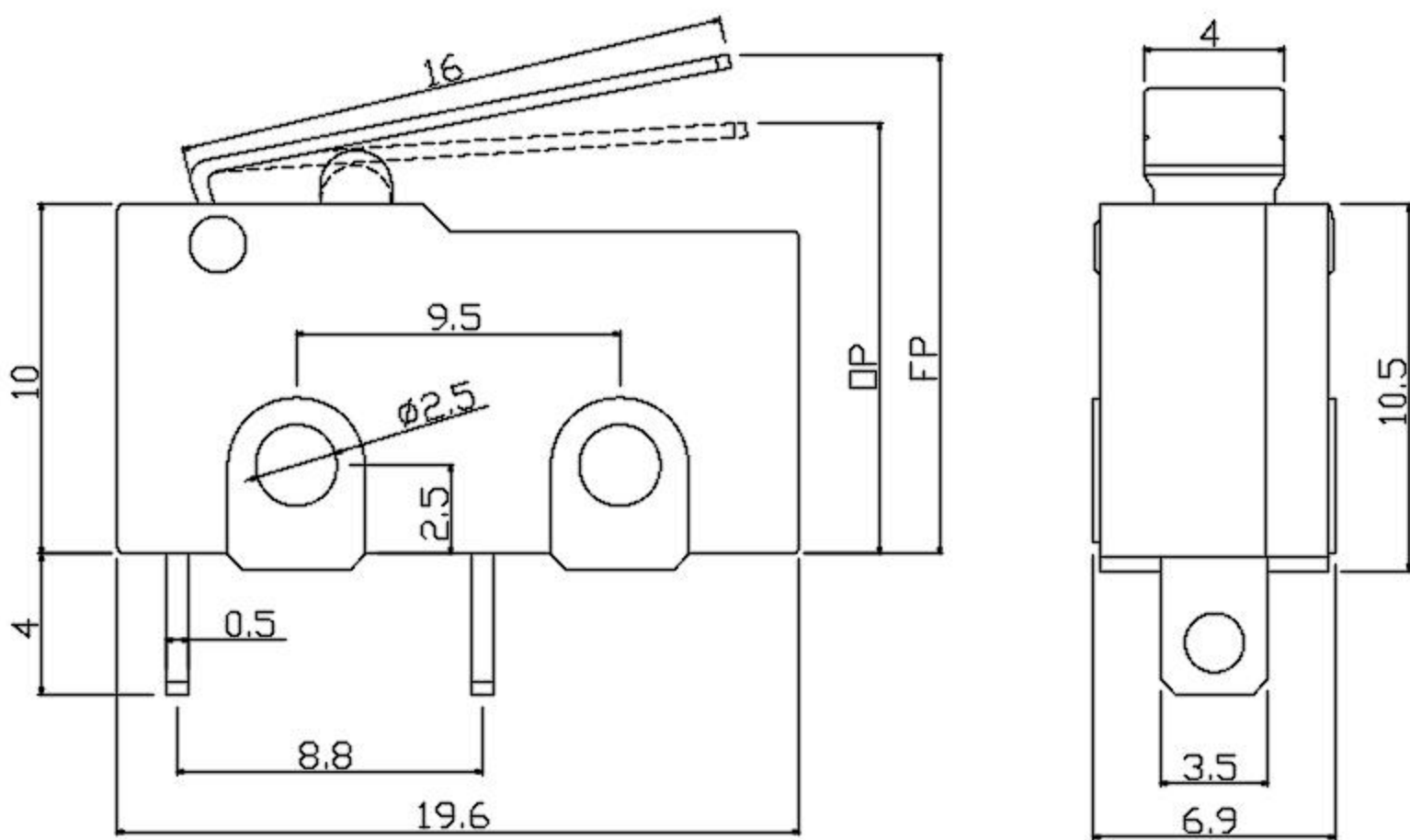
ETC7-KW4-3Z-B122013L1



Model	ETC7-KW4-3Z-B122013L1
□F (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	14.5
□P Min(mm)	10.5



ETC7-KW4-3Z-B222013L1



Model	ETC7-KW4-3Z-B222013L1
□F (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	14.5
□P Min(mm)	10.5

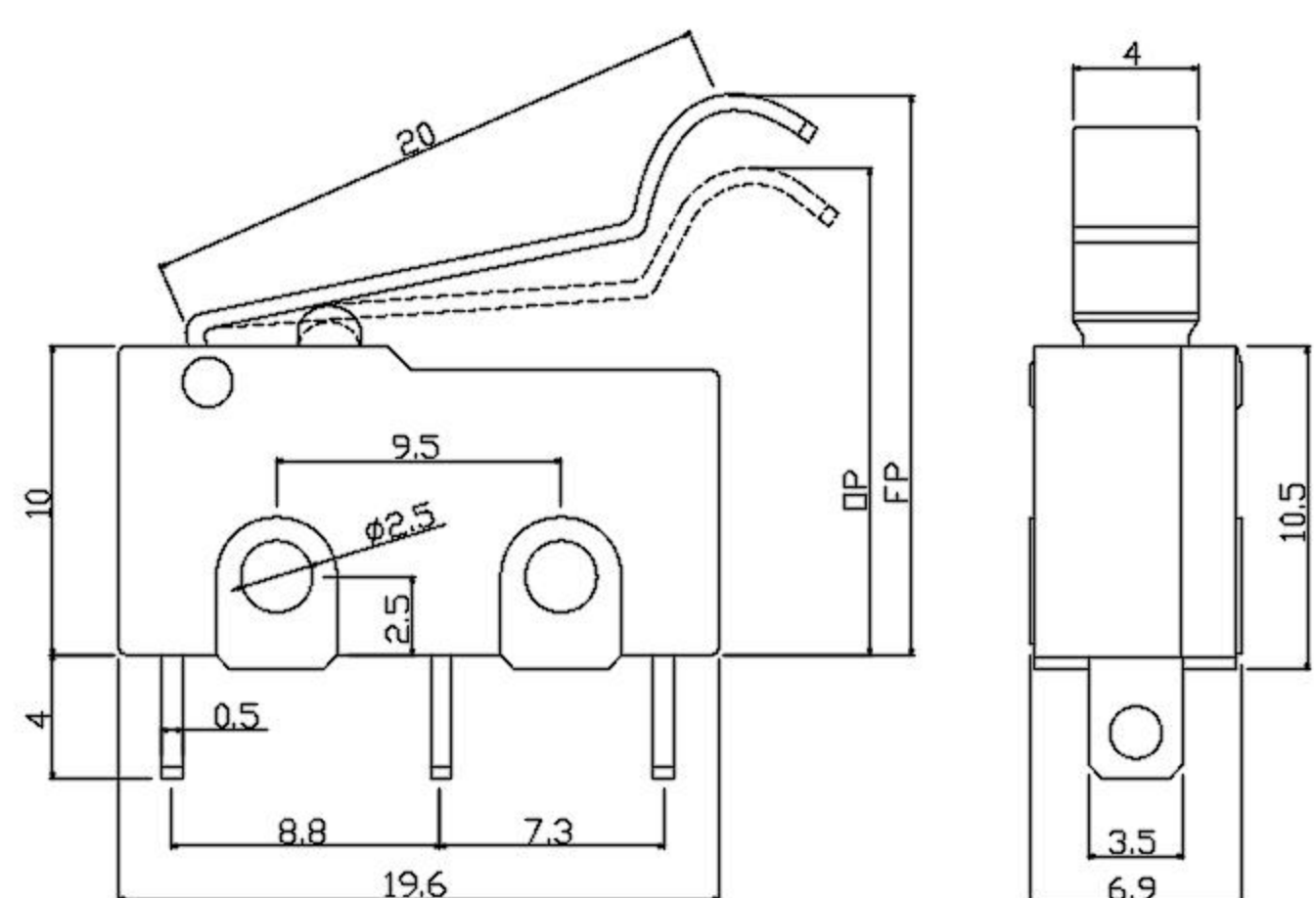
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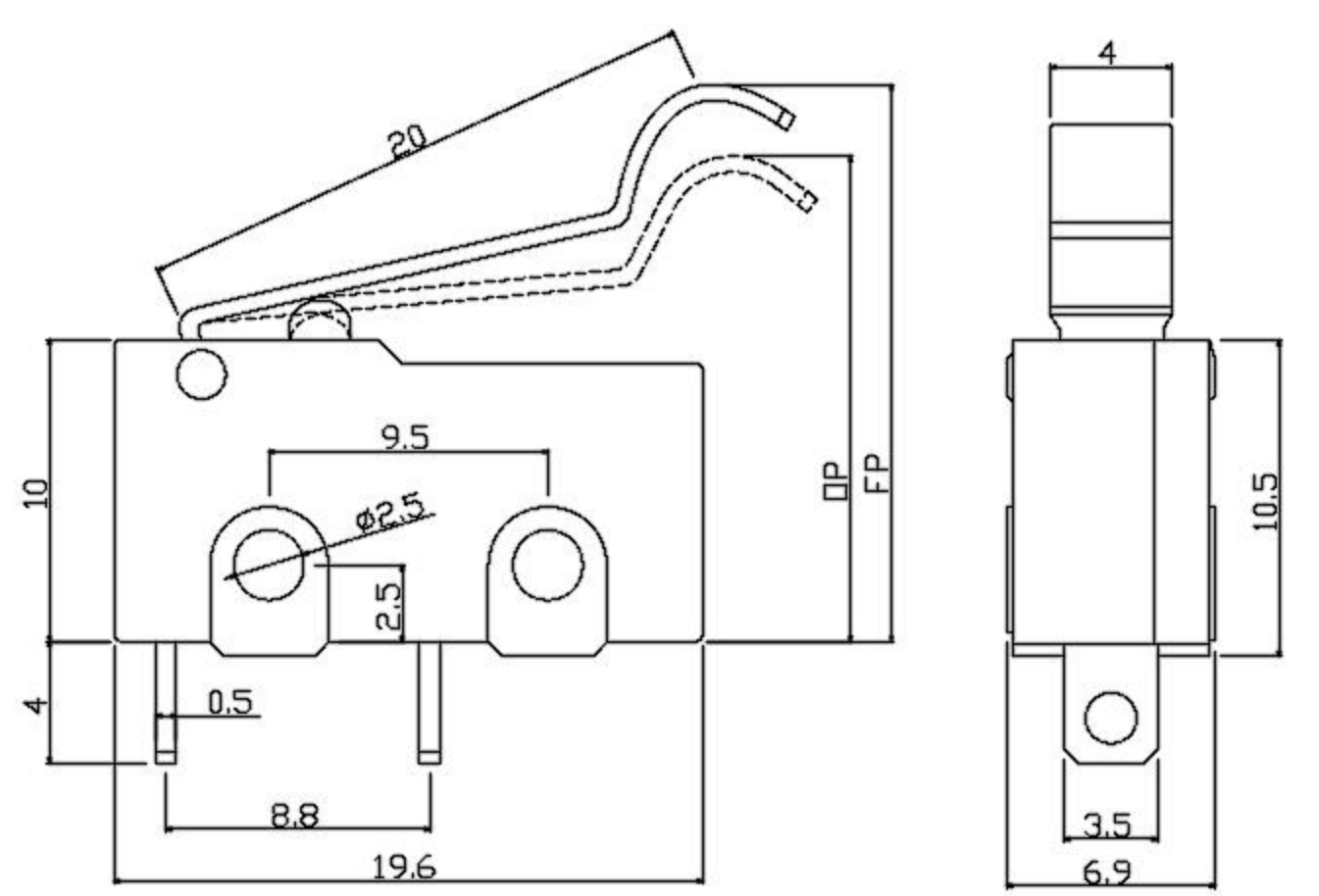
ETC7-KW4-3Z-B122013L2



Model	ETC7-KW4-3Z-B122013L2
DF (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	17.0
DP Min(mm)	13.0



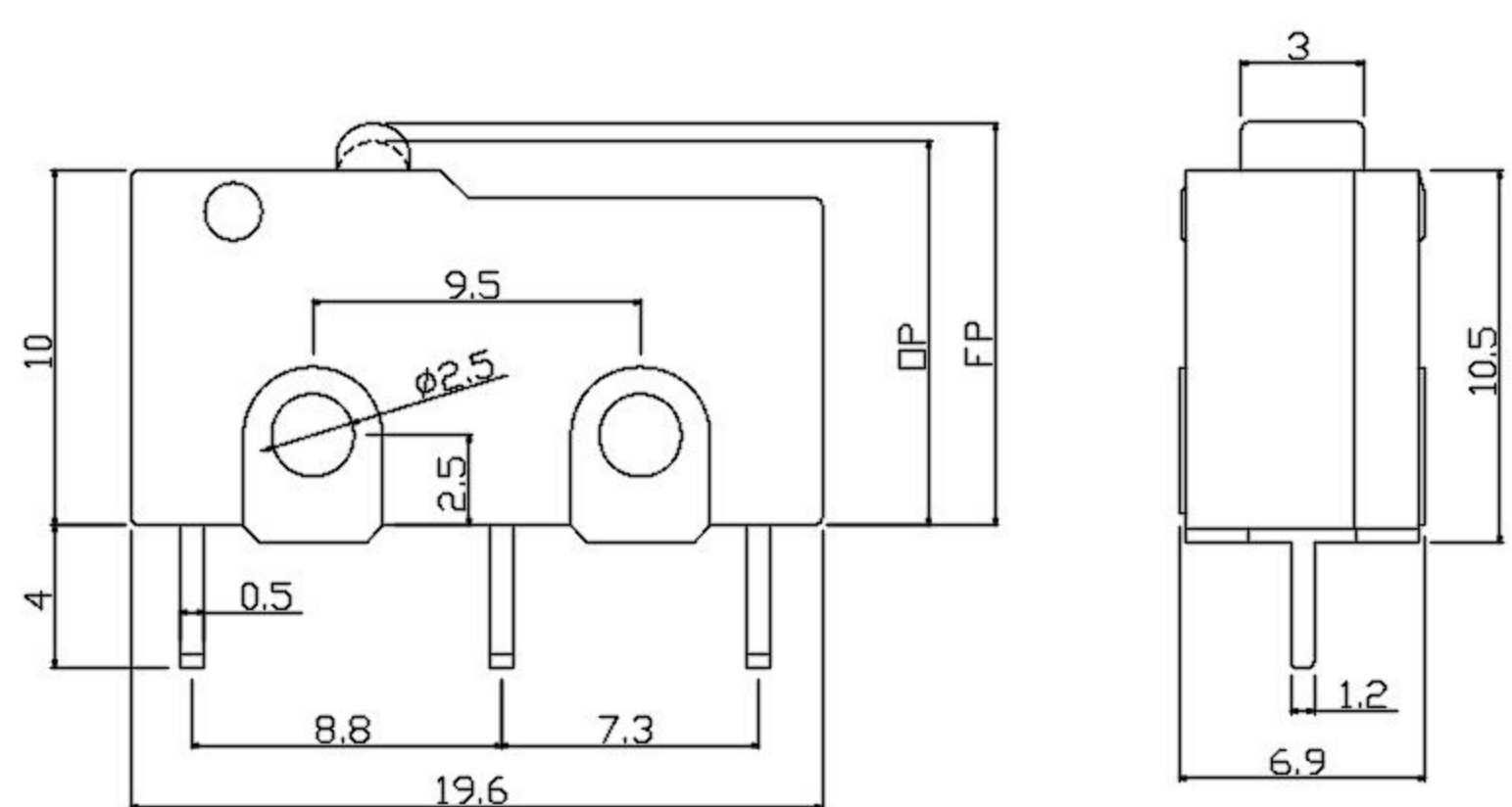
ETC7-KW4-3Z-B222013L2



Model	ETC7-KW4-3Z-B222013L2
DF (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	17.0
DP Min(mm)	13.0



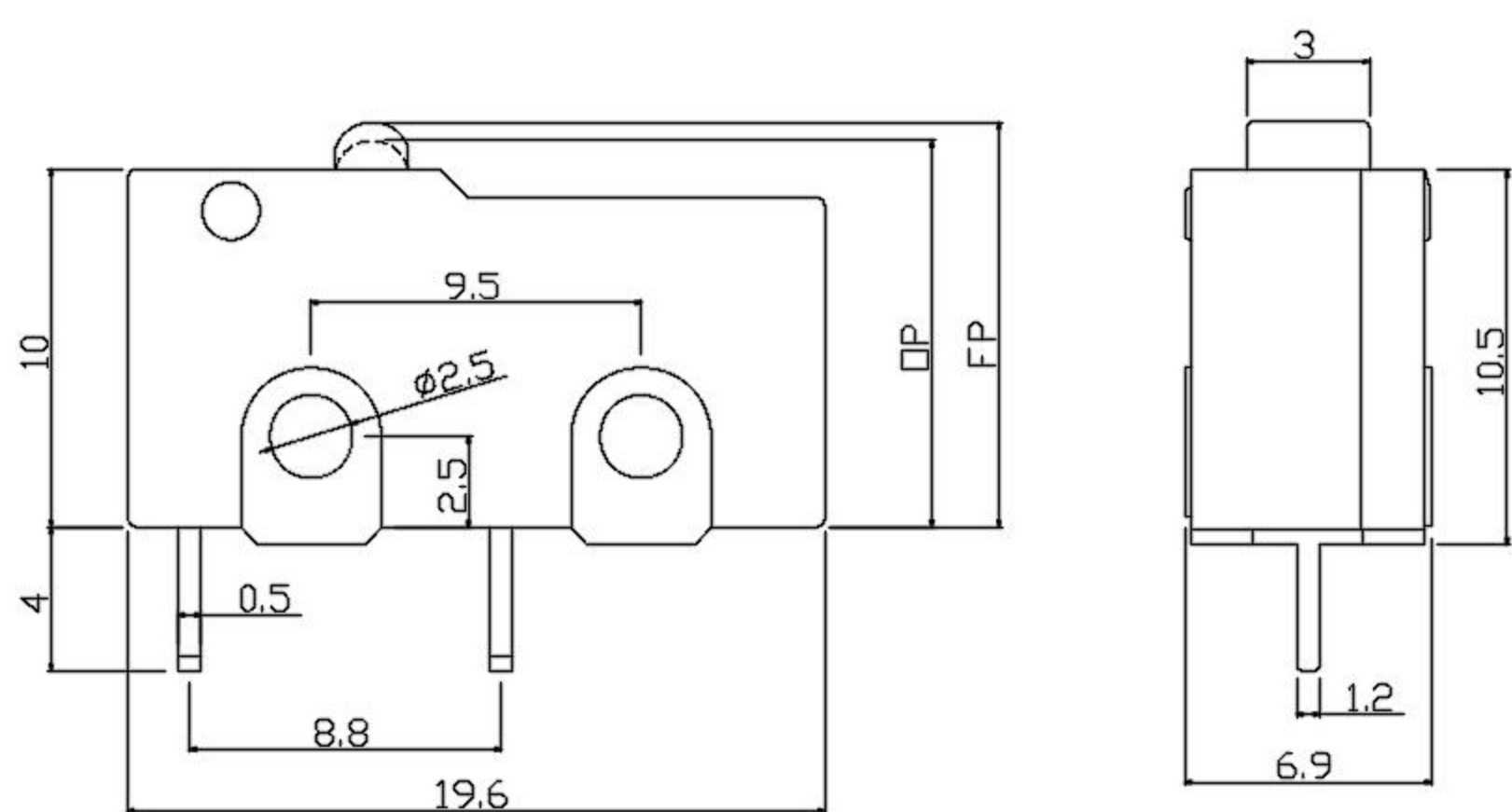
ETC7-KW4-3Z-B132013L



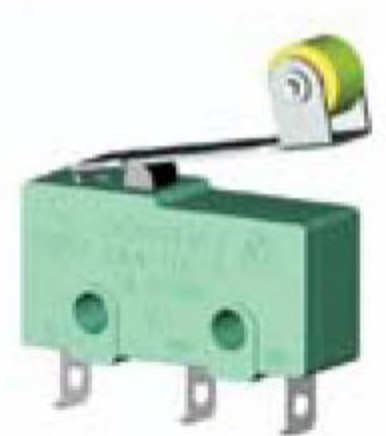
Model	ETC7-KW4-3Z-B132013L
DF (N)	0.2~3.0
MD Max(mm)	0.2
PT Max(mm)	12.0
DP Min(mm)	11.0



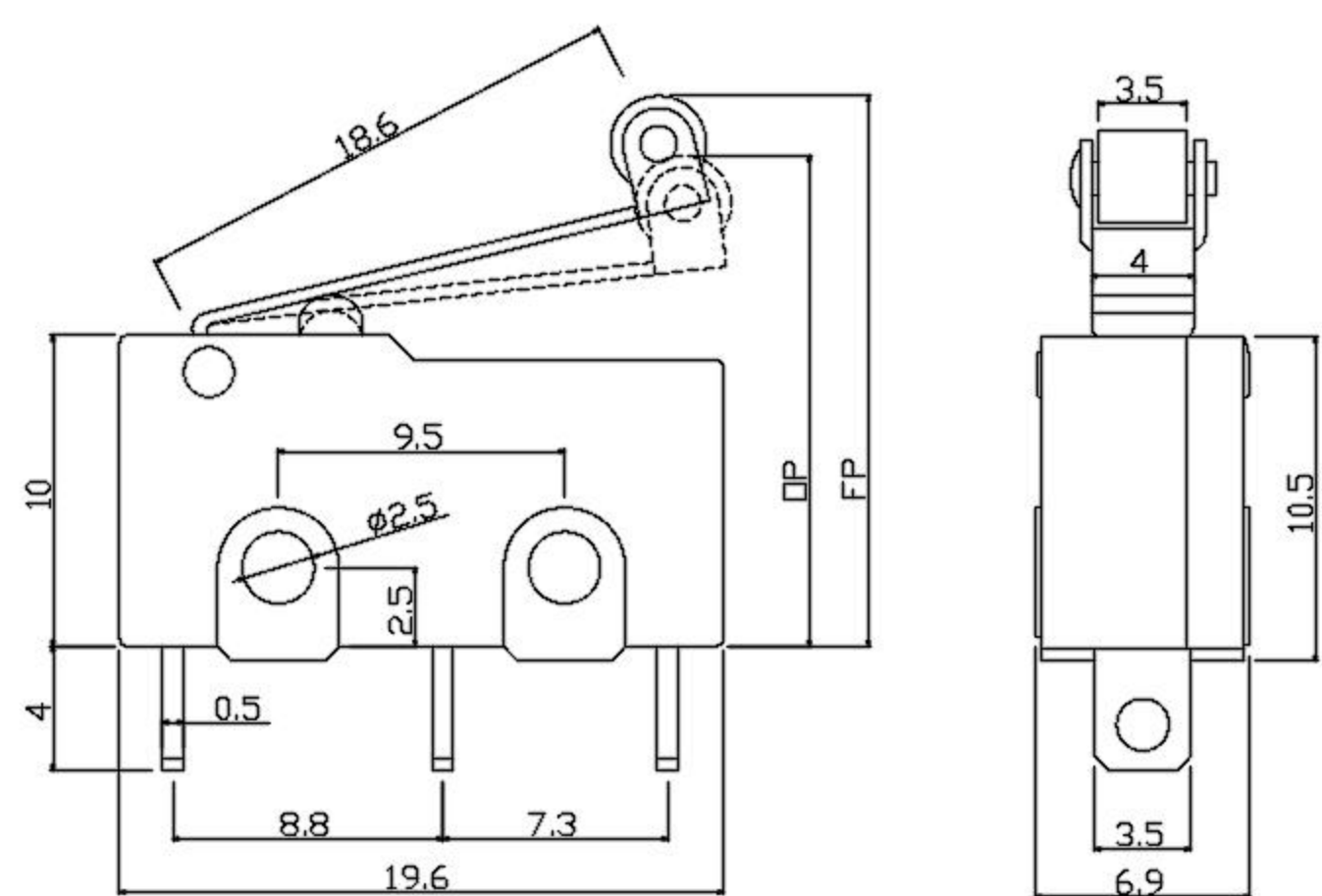
ETC7-KW4-3Z-B232013L



Model	ETC7-KW4-3Z-B232013L
DF (N)	0.2~3.0
MD Max(mm)	0.2
PT Max(mm)	12.0
DP Min(mm)	11.0



ETC7-KW4-3Z-B122013L3



Model	ETC7-KW4-3Z-B122013L3
DF (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	19.5
DP Min(mm)	16.0

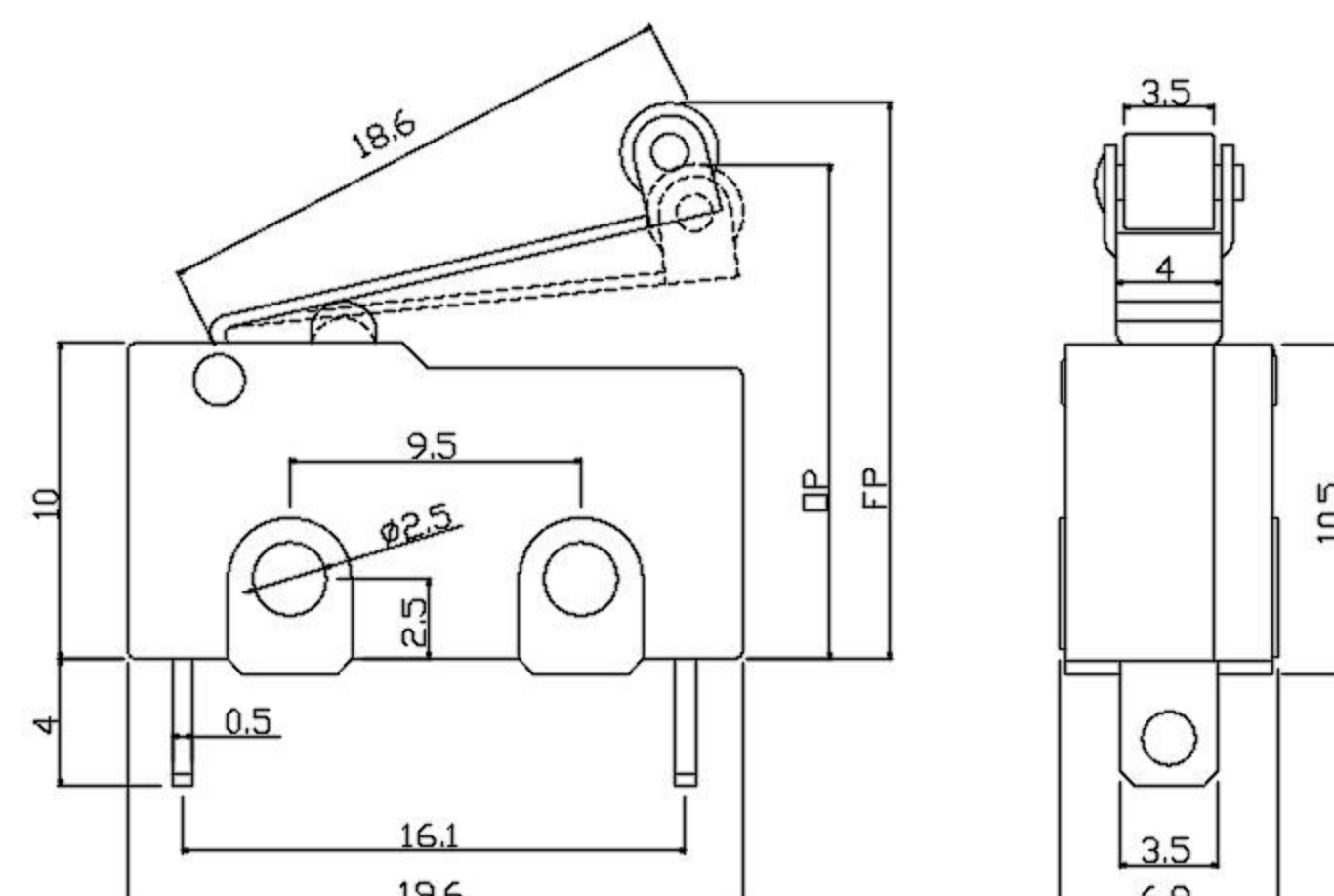
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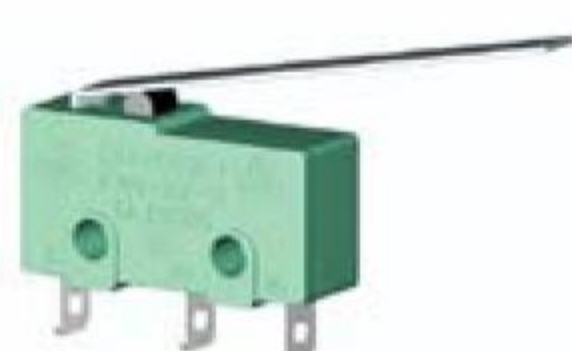
ETC7-KW4-3Z Micro Switch Series



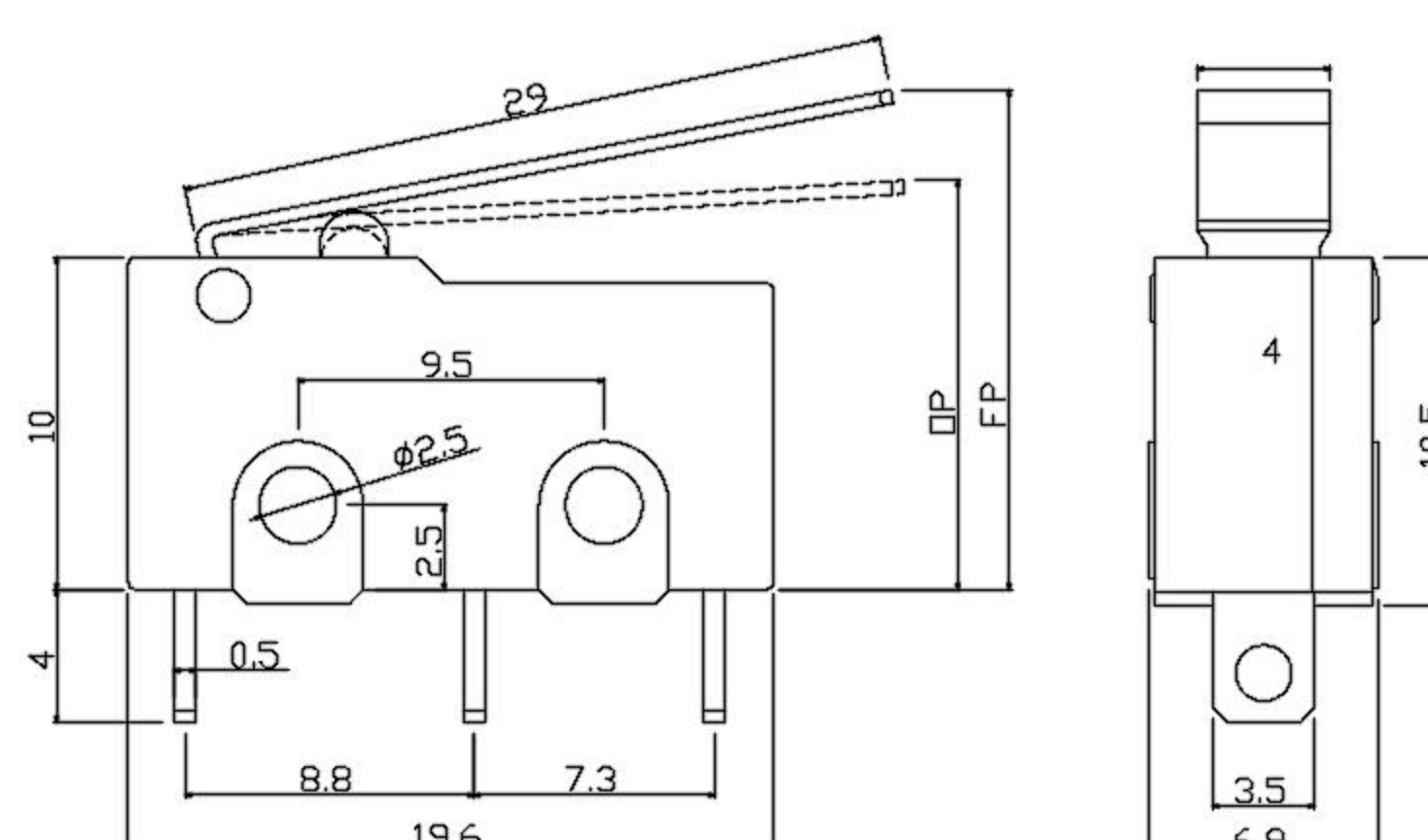
ETC7-KW4-3Z-B322013L3



Model	ETC7-KW4-3Z-B322013L3
□F (N)	0.2~3.0
MD Max(mm)	1.2
PT Max(mm)	19.5
□P Min(mm)	16.0



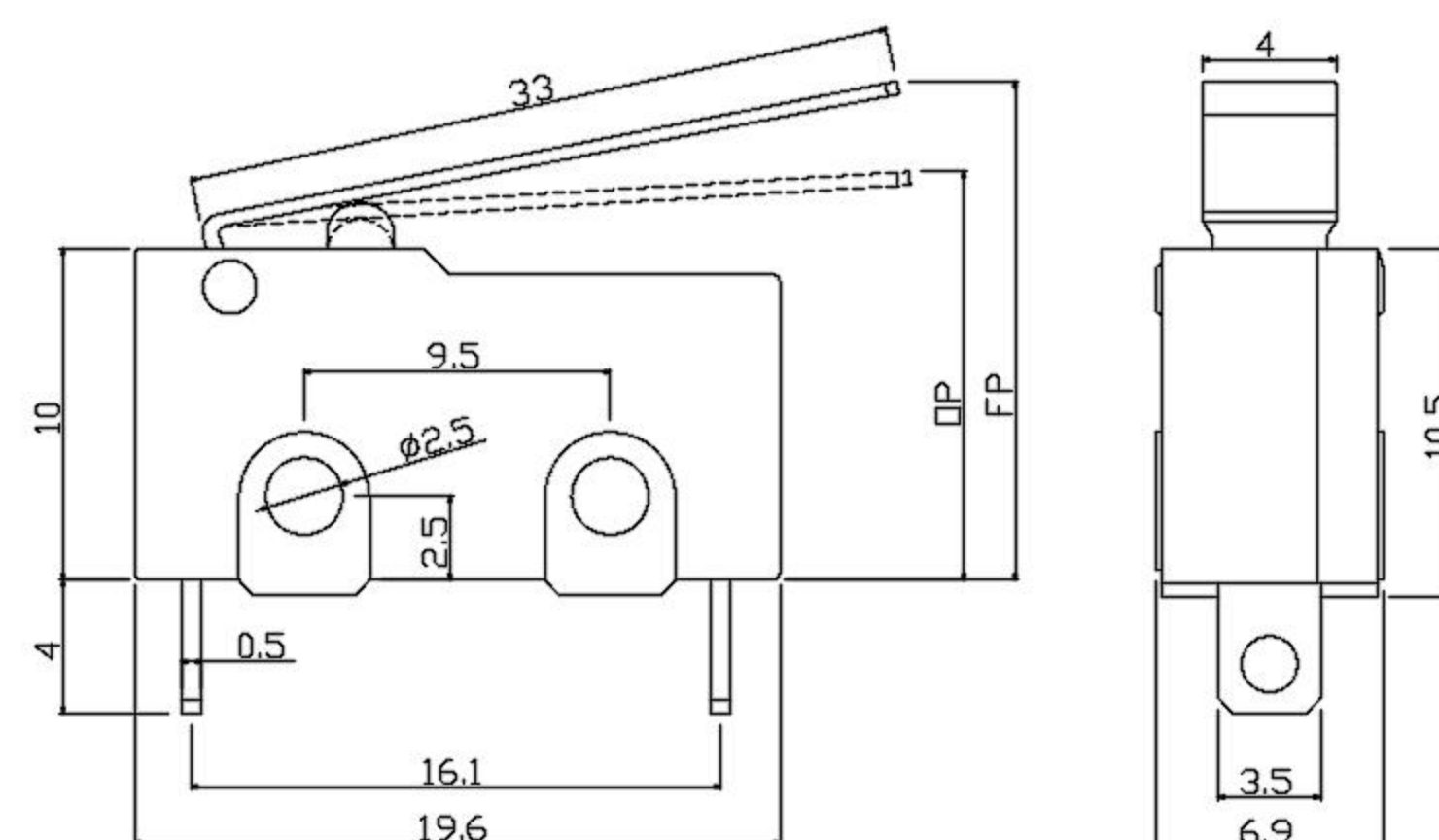
ETC7-KW4-3Z-B122013L4



Model	ETC7-KW4-3Z-B122013L4
□F (N)	0.2~3.0
MD Max(mm)	1.5
PT Max(mm)	18.0
□P Min(mm)	14.5



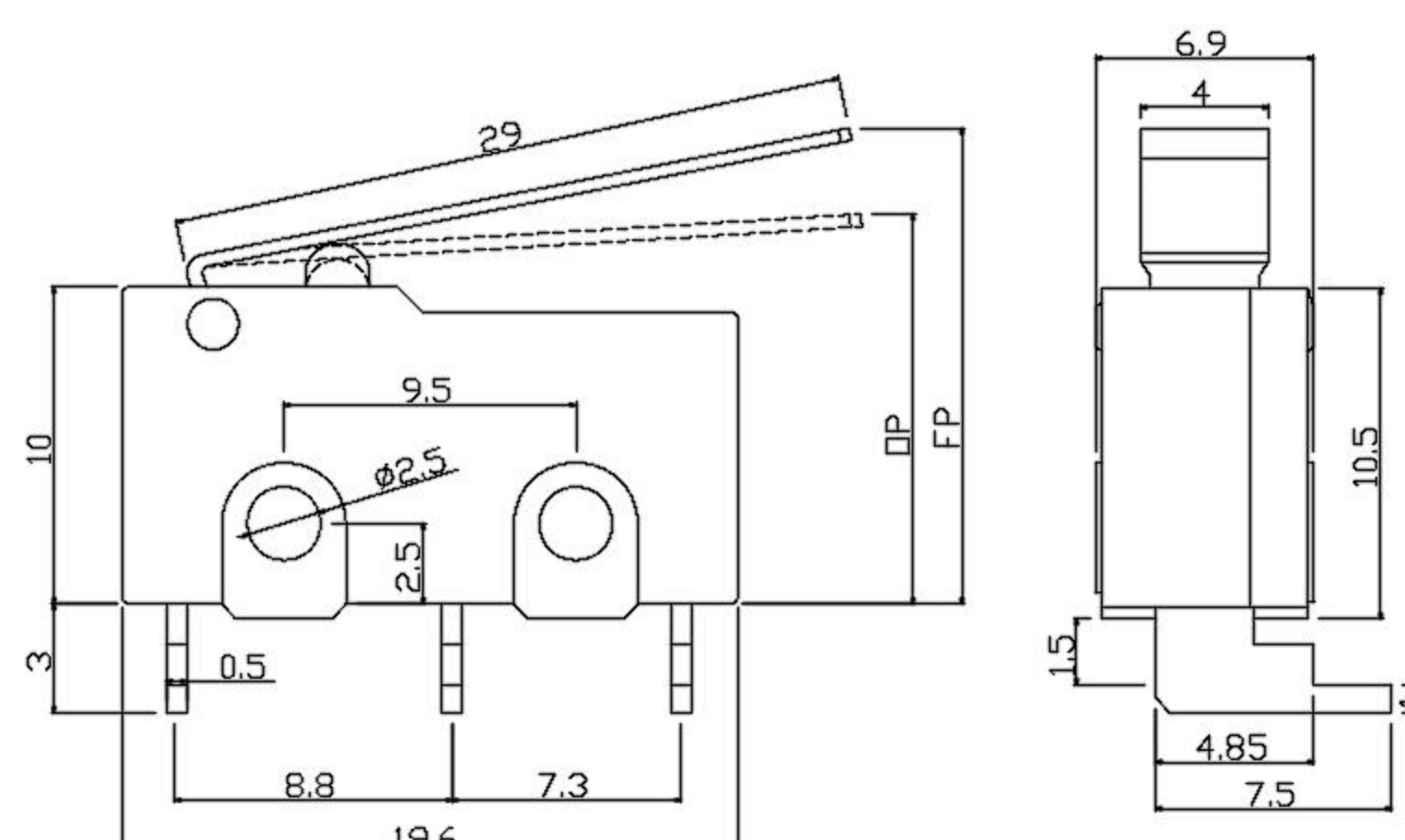
ETC7-KW4-3Z-B322013L4



Model	ETC7-KW4-3Z-B322013L4
□F (N)	0.2~3.0
MD Max(mm)	1.5
PT Max(mm)	18.0
□P Min(mm)	14.5



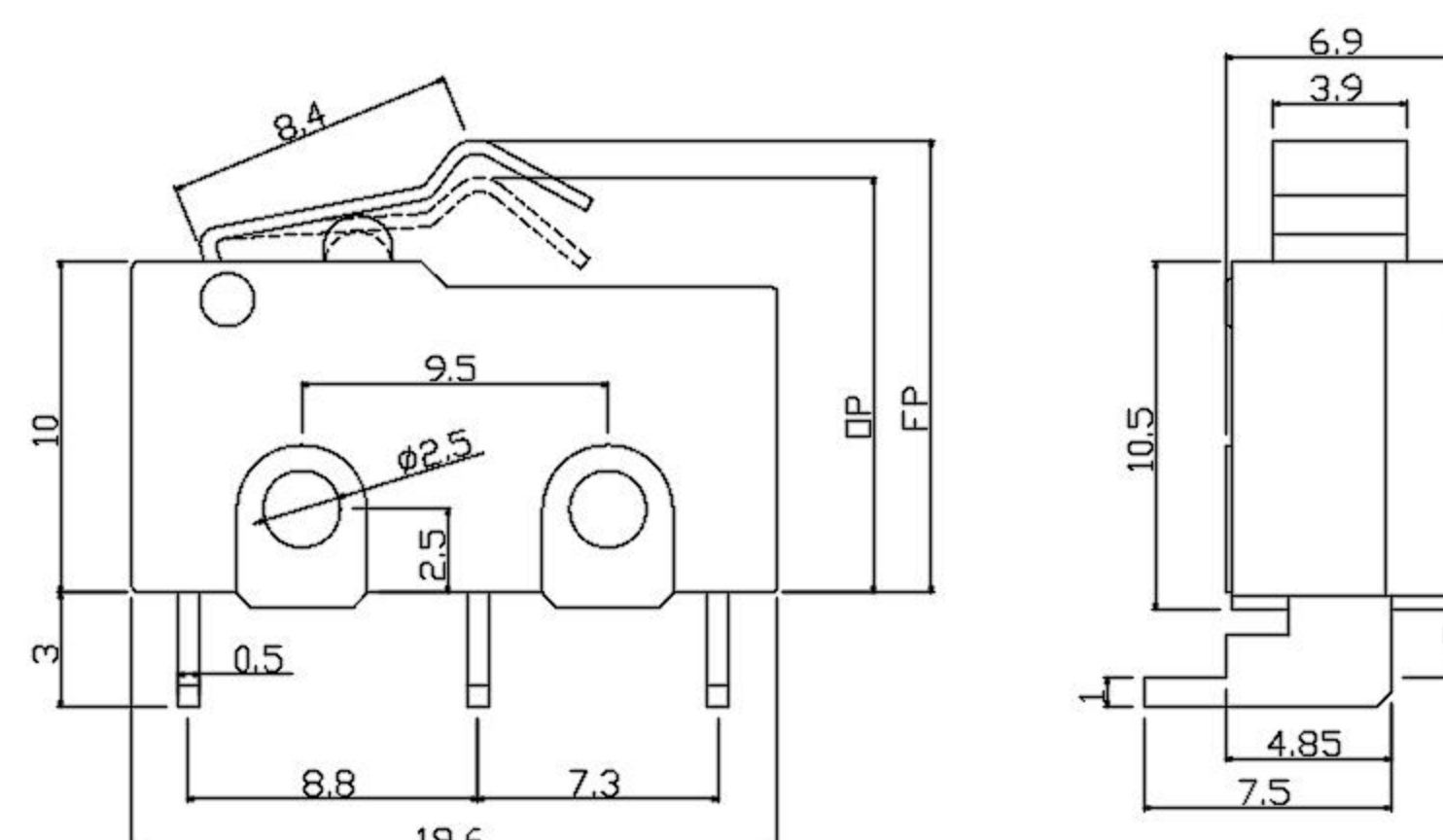
ETC7-KW4-3Z-B152013L4



Model	ETC7-KW4-3Z-B152013L4
□F (N)	0.2~3.0
MD Max(mm)	1.5
PT Max(mm)	18.0
□P Min(mm)	14.5



ETC7-KW4-3Z-B142013L5

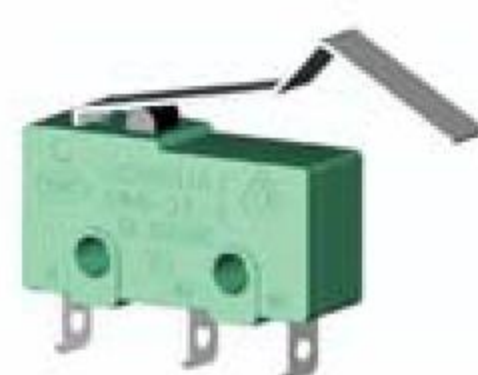


Model	ETC7-KW4-3Z-B142013L5
□F (N)	0.2~3.0
MD Max(mm)	0.5
PT Max(mm)	15.5
□P Min(mm)	14.1

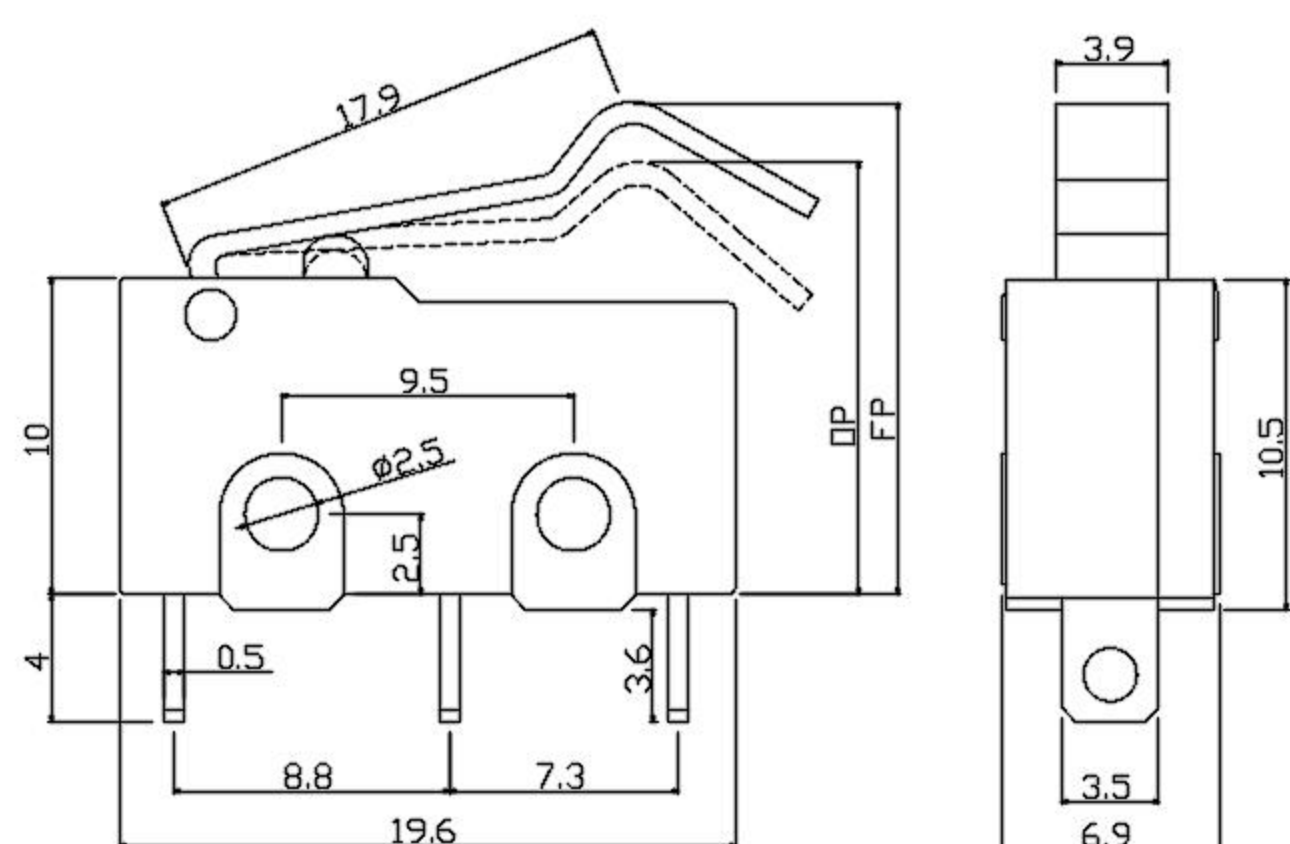
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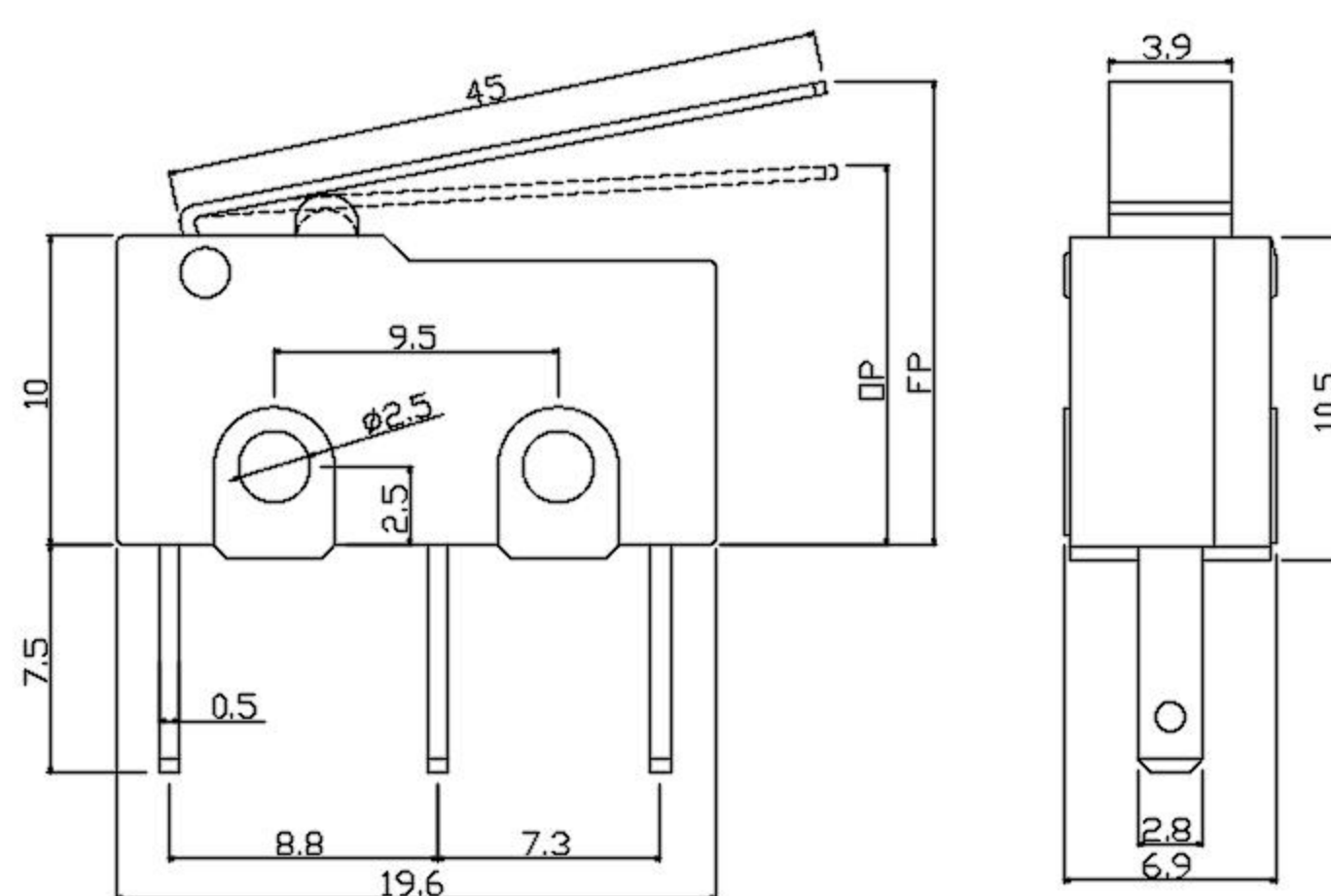
ETC7-KW4-3Z-B122013L8



Model	ETC7-KW4-3Z-B122013L8
□F (N)	0.2~3.0
MD Max(mm)	1.0
PT Max(mm)	18.0
□P Min(mm)	13.5



ETC7-KW4-3Z-B112013L17



Model	ETC7-KW4-3Z-B112013L17
□F (N)	0.2~3.0
MD Max(mm)	2.0
PT Max(mm)	20.0
□P Min(mm)	14.0