

Switch

Micro Switch Series

ETC7-KW3-OZ 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

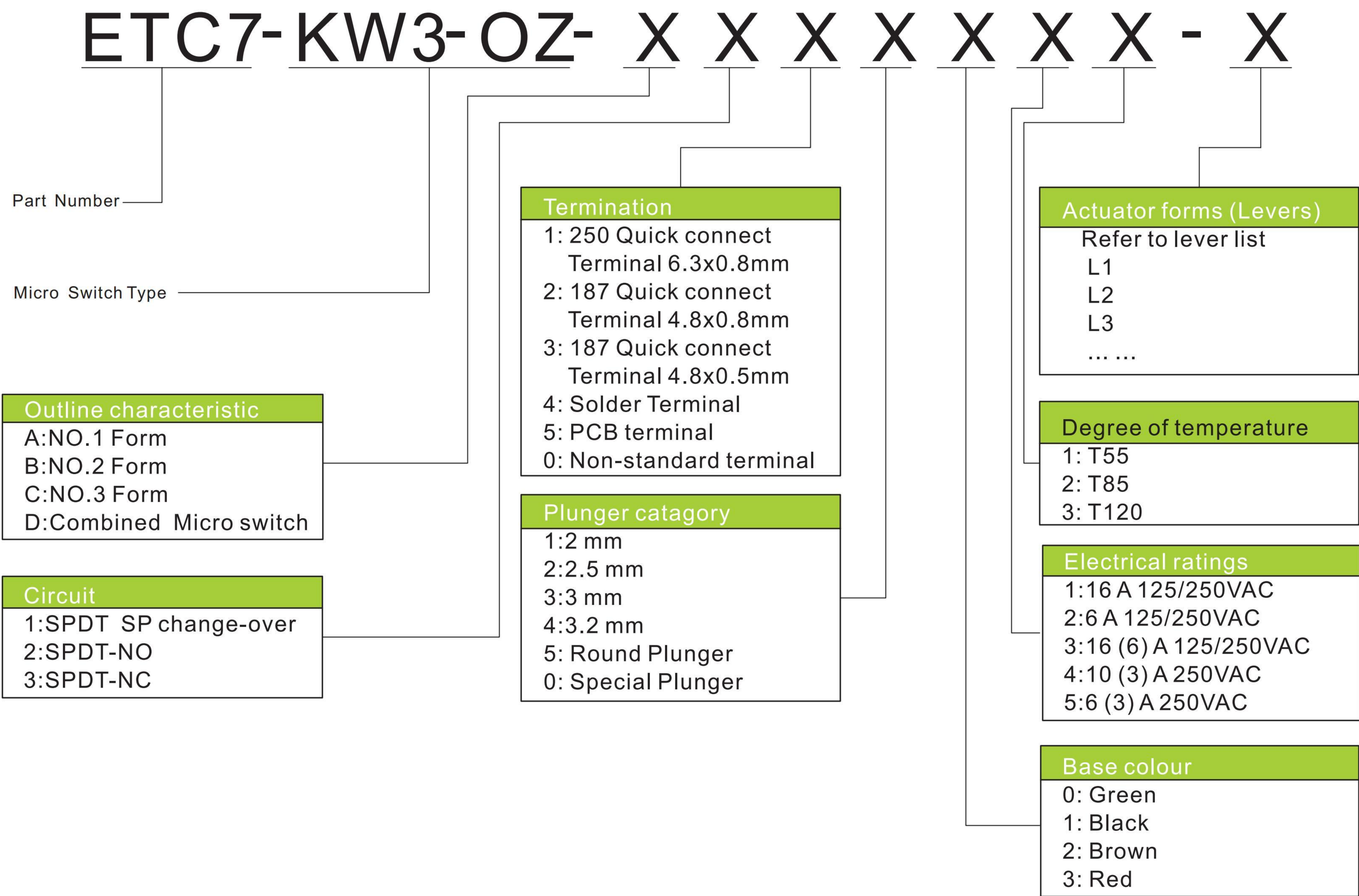
Items		Value
Operating speed		0.1mm~1m/S
Operating Frequency		Mechanical 60cycles/min;
		Electrical 25cycles/min
Insulation resistance		$\geq 100M\Omega$ (DC500V)
Contact resistance		$\leq 30m\Omega$ (Initial value)
Test voltage	Between terminals of same polarity	AC1500V 50/60HZ
	Between current-carrying metal parts and ground (case)	AC3750V 50/60HZ
Vibration resistance		10~55 HZ 1.5mm Double amplitude
Shock resistance		Destruction: 0F>0.5N: 1000m/S2 (approx. 100G) Max 0F $\leq$ 0.5N: 400m/S2 (approx. 40G) Max
		Malfunction: 0F>0.5N: 200m/S2 (approx. 20G) Max 0F $\leq$ 0.5N: 100m/S2 (approx. 10G) Max
Life expectancy		Mechanical ≥ 2000000 cycles
		Electrical ≥ 50000 cycles
Degree of protection against electric		Class I /Class II
PTI		175
Approvals		UL CUL VDE TUV CE DEMKO CQC

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ORDER INFORMATION



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Circuit Illustration

	SPDT 1	SPST-NO 2	SPST-NC 3
Bottom Common terminal			
Side Common terminal			

Termination

250 standard terminal 6.3x0.8	250 standard terminal 4.8x0.8	250 standard terminal 4.8x0.5
1 	2 	3

Actuator Forms(Levers)

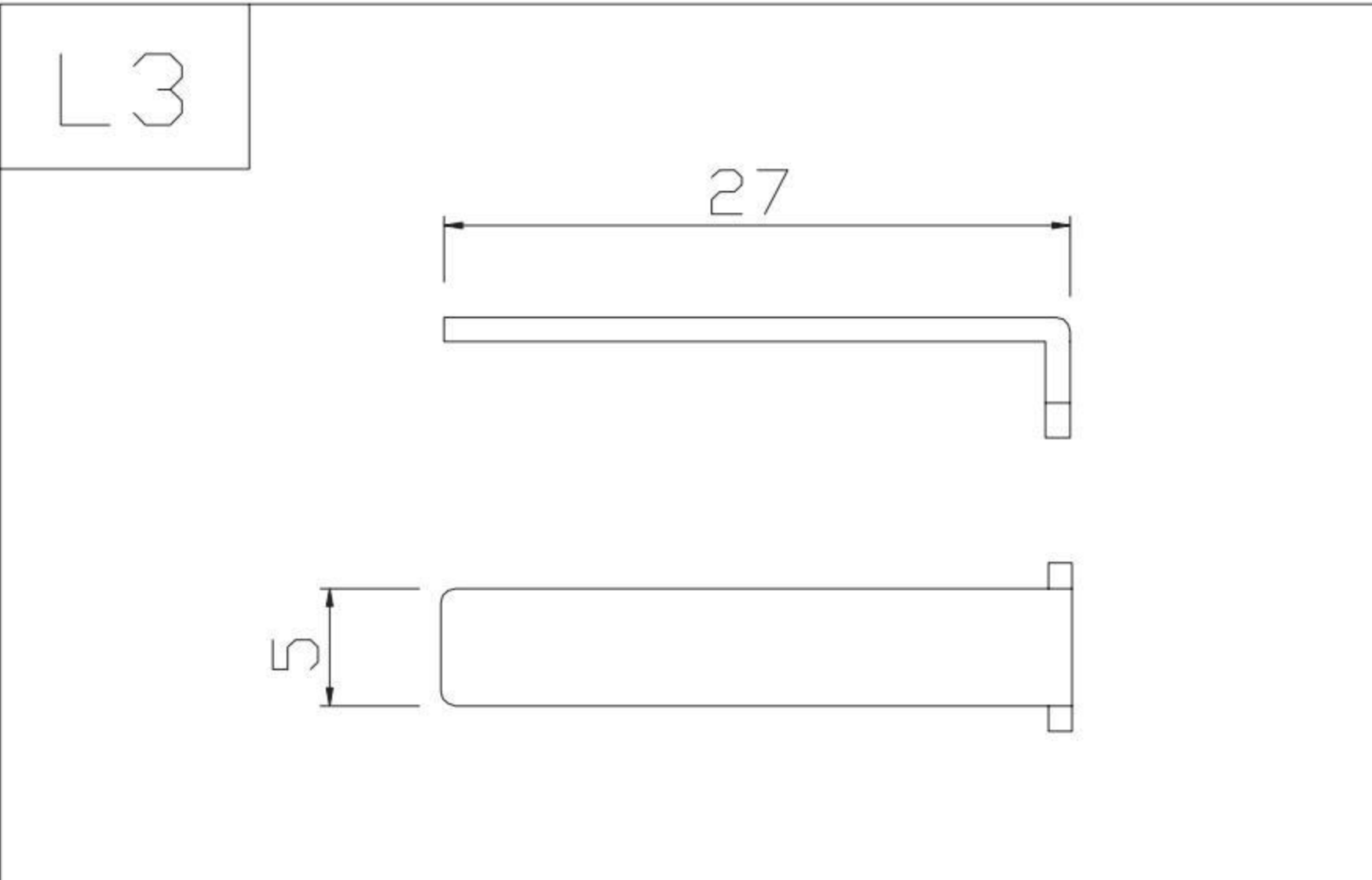
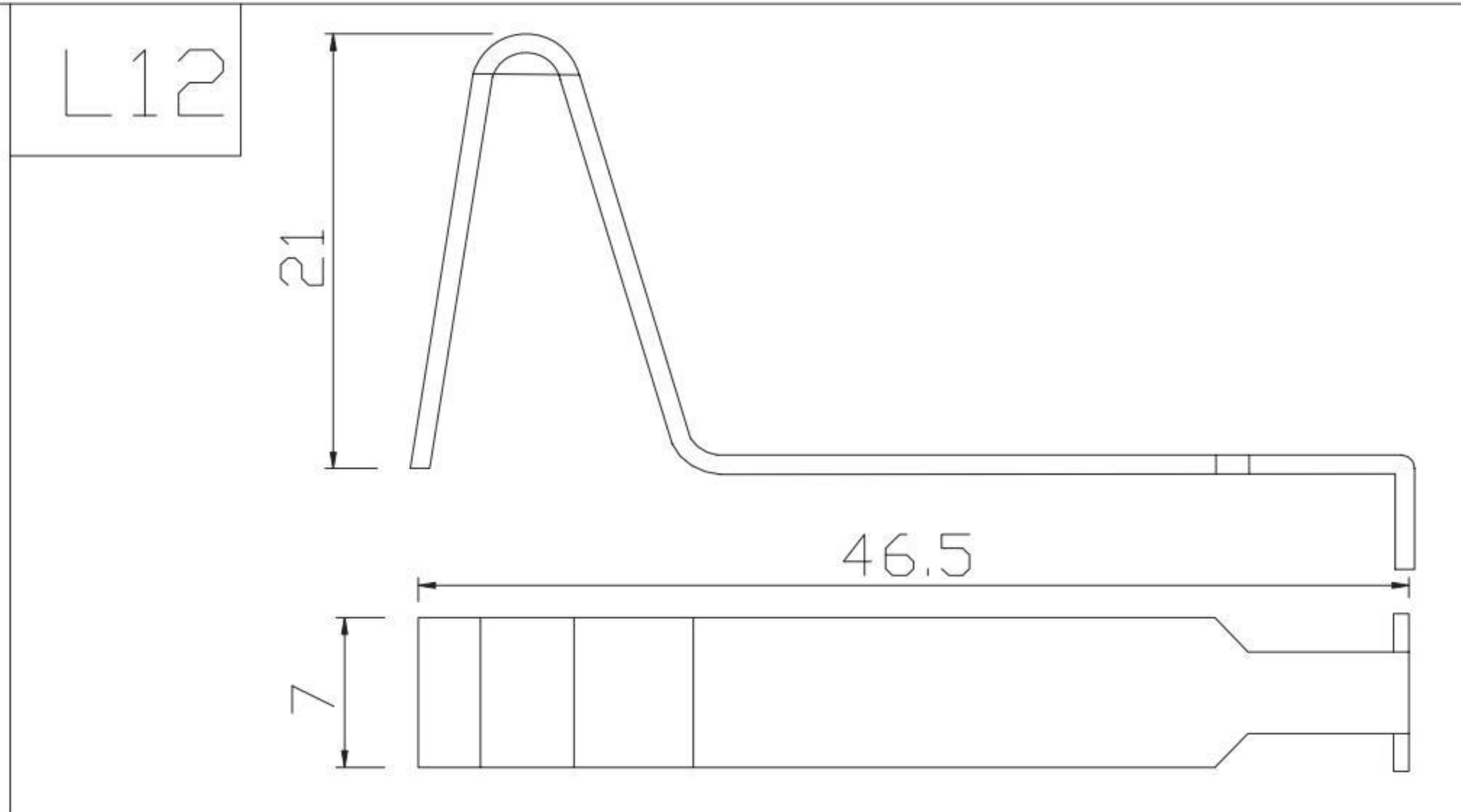
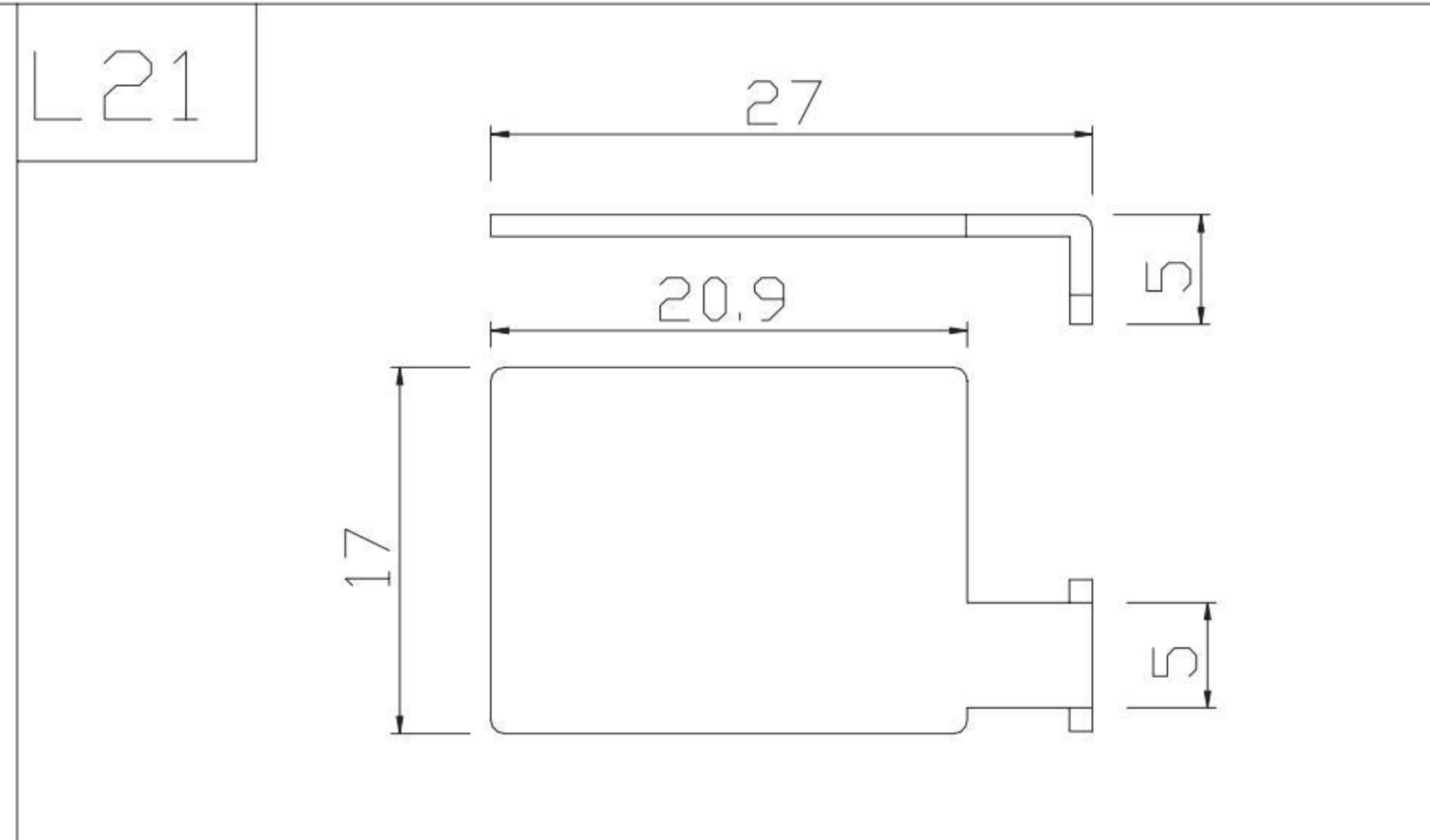
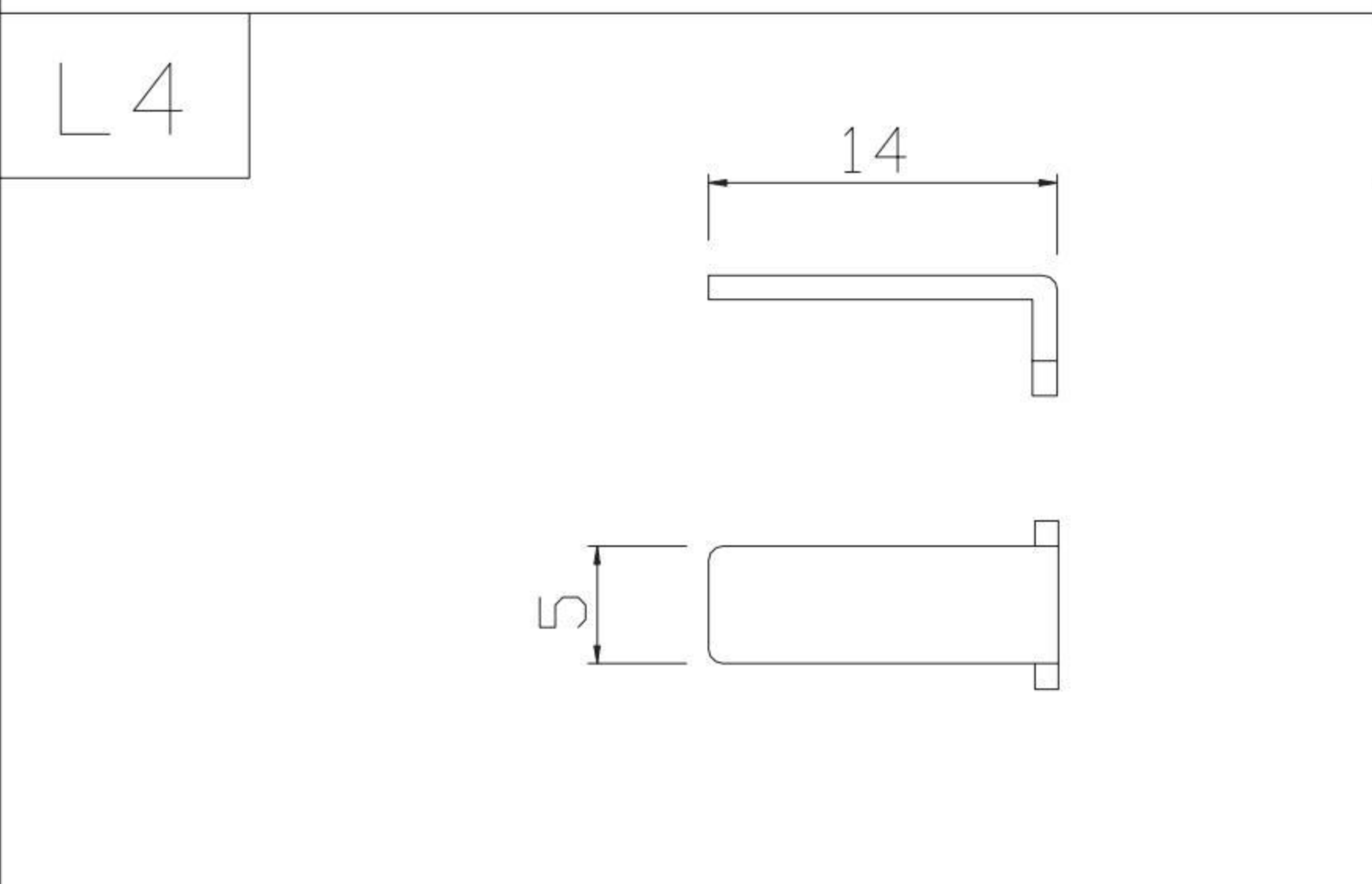
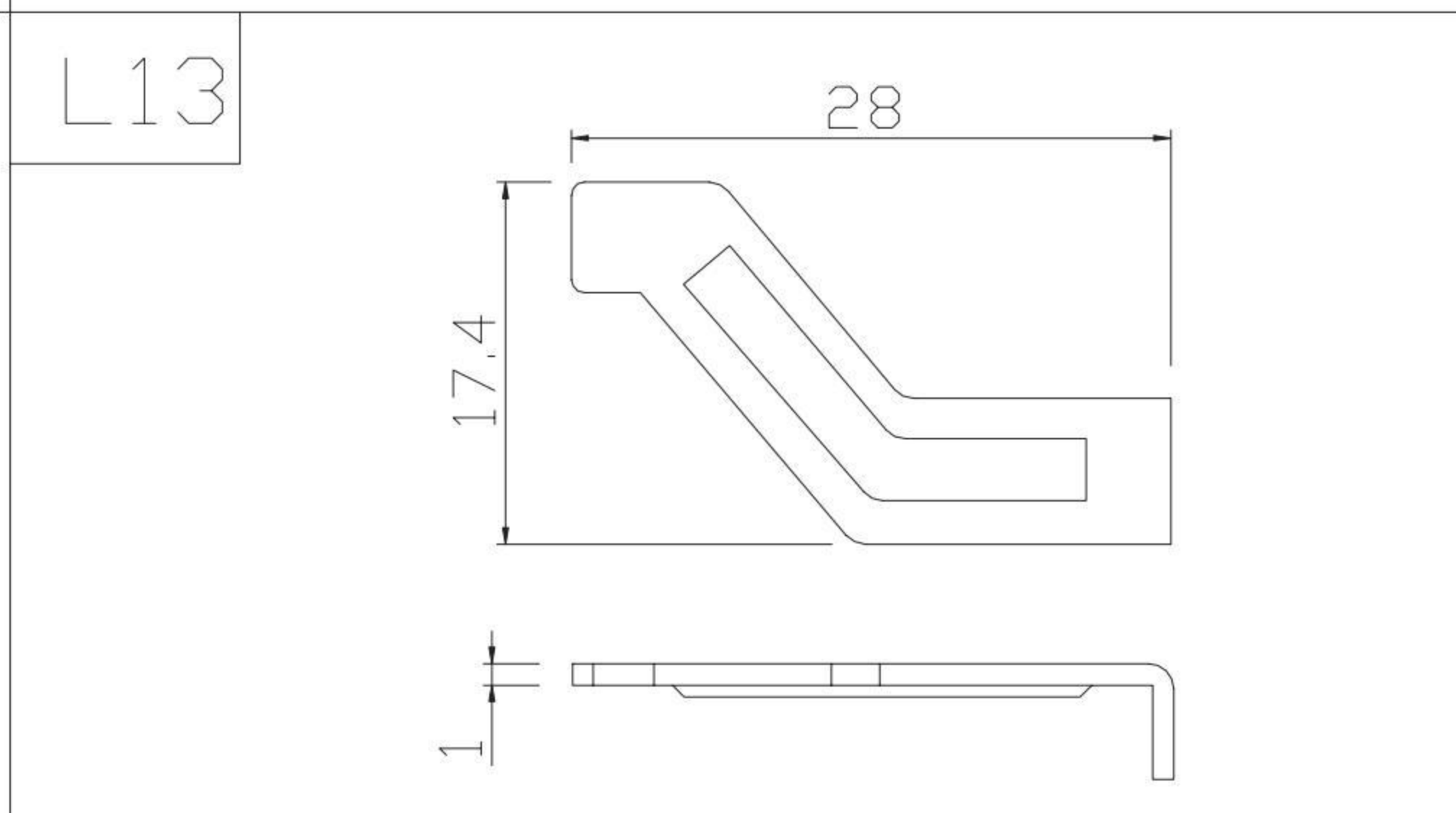
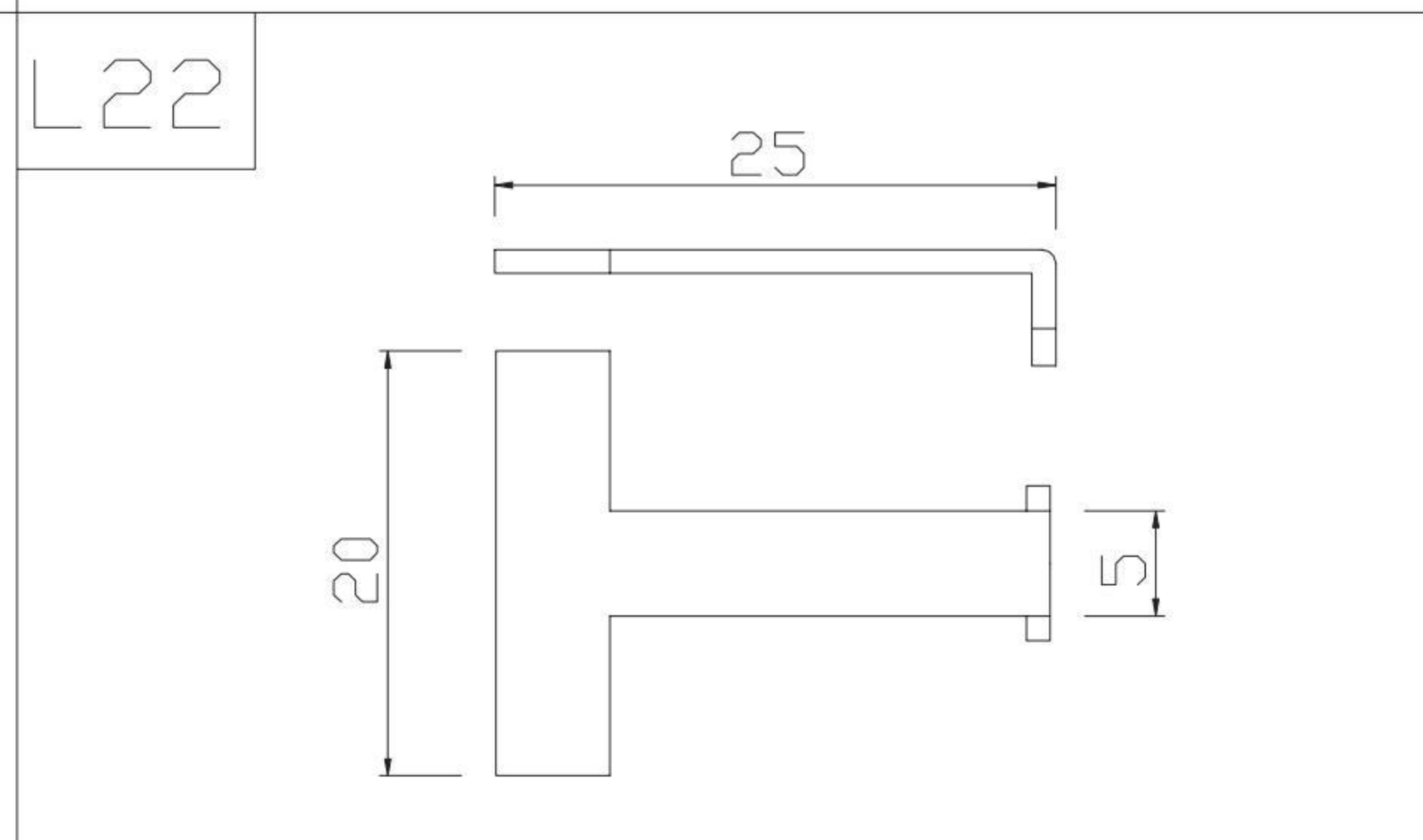
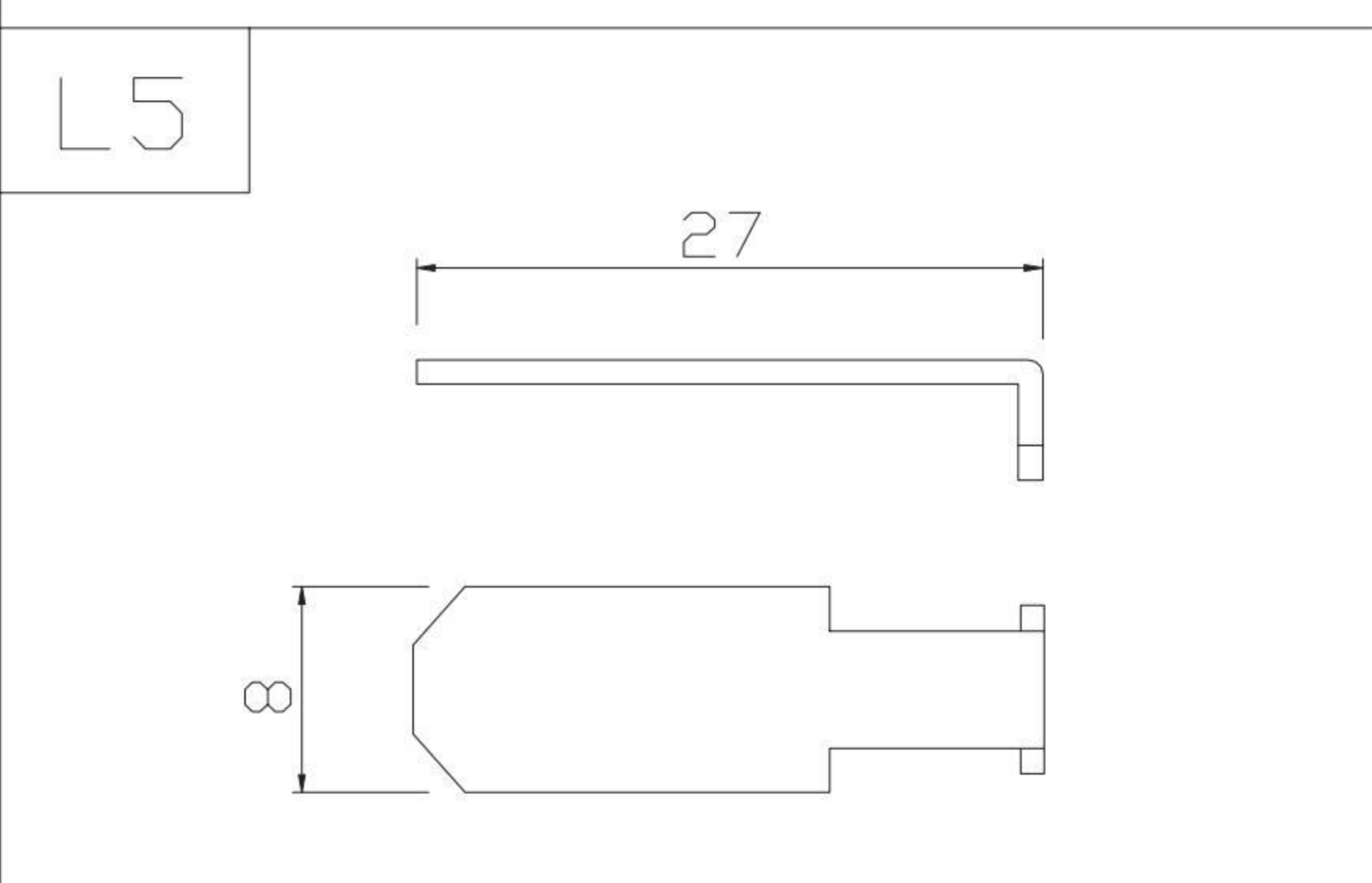
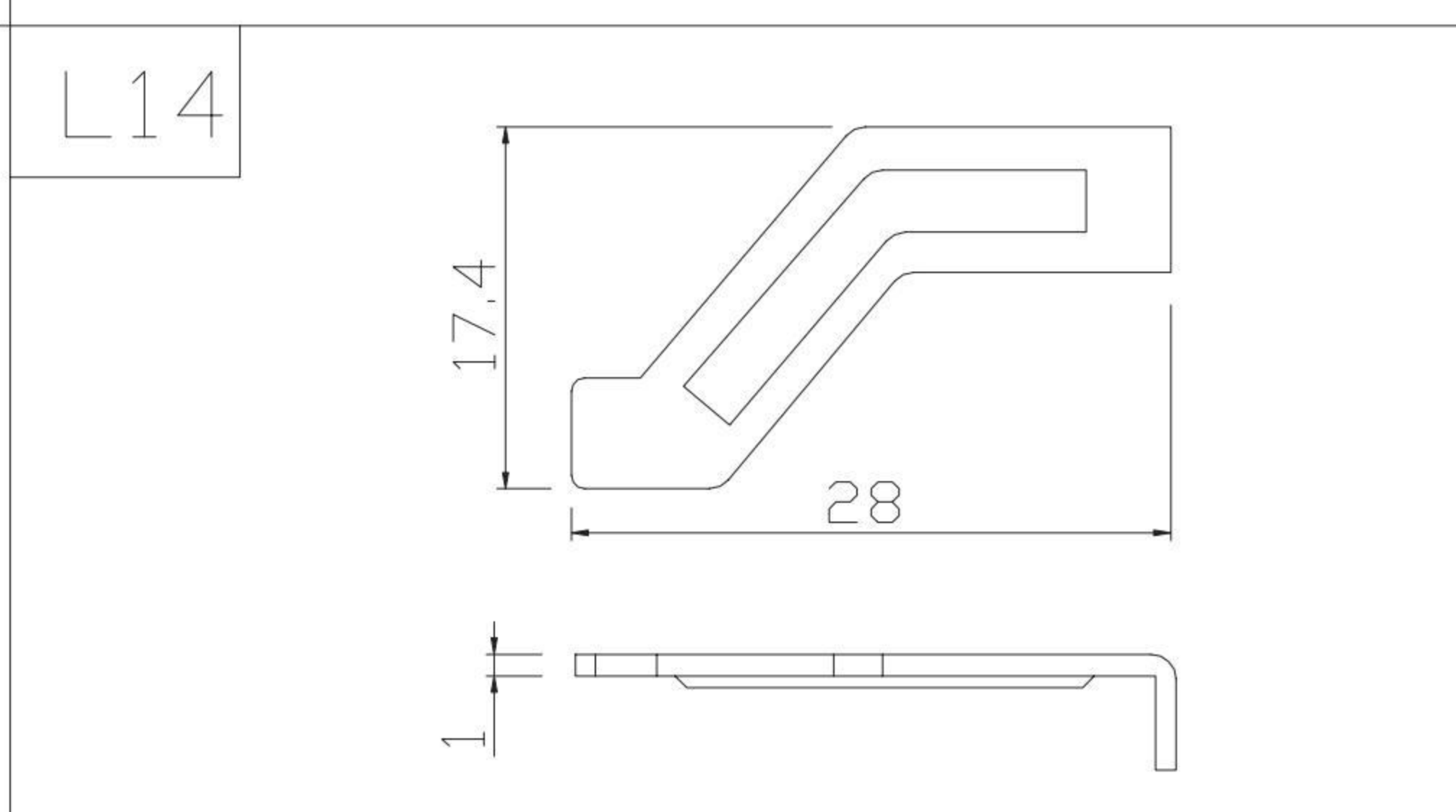
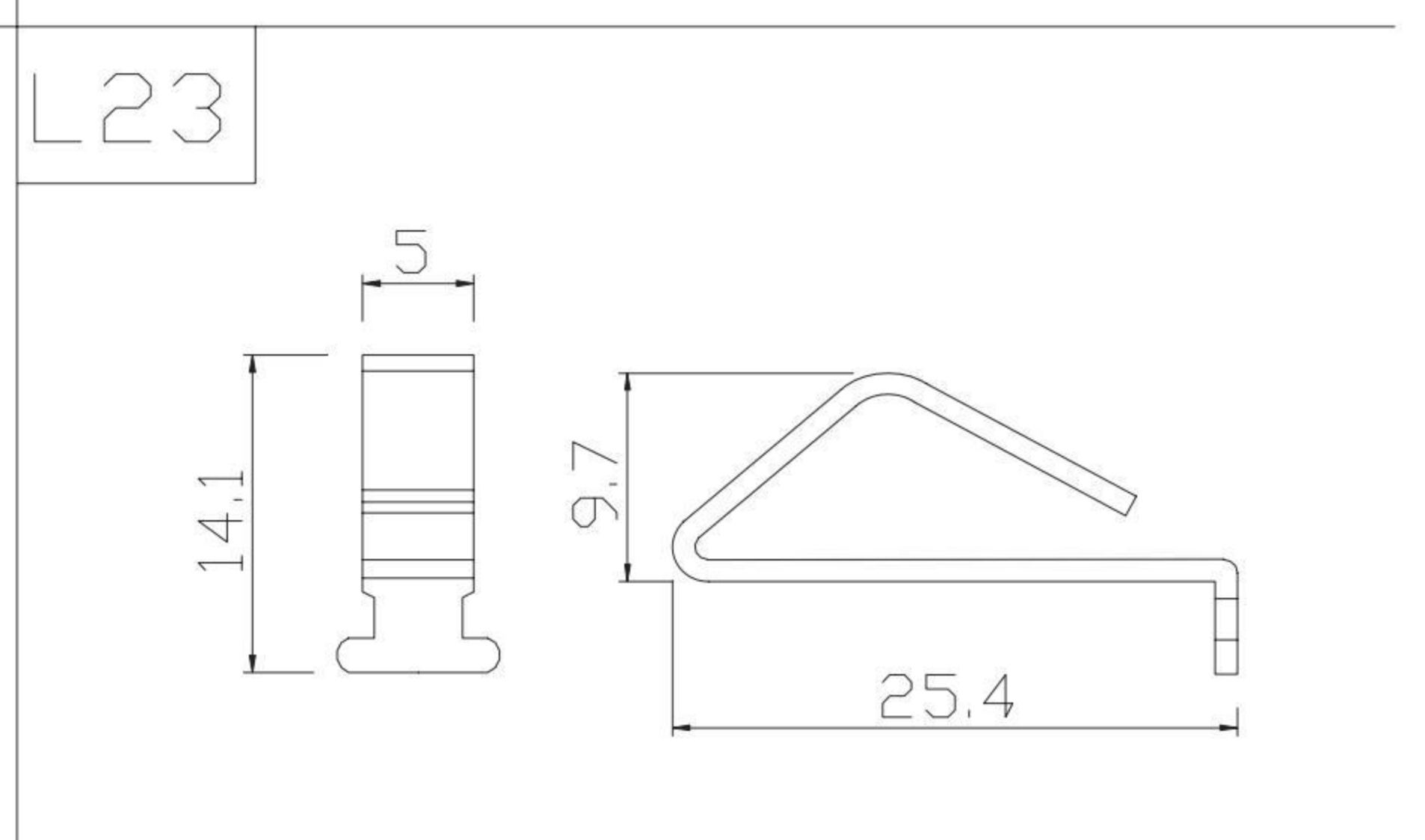
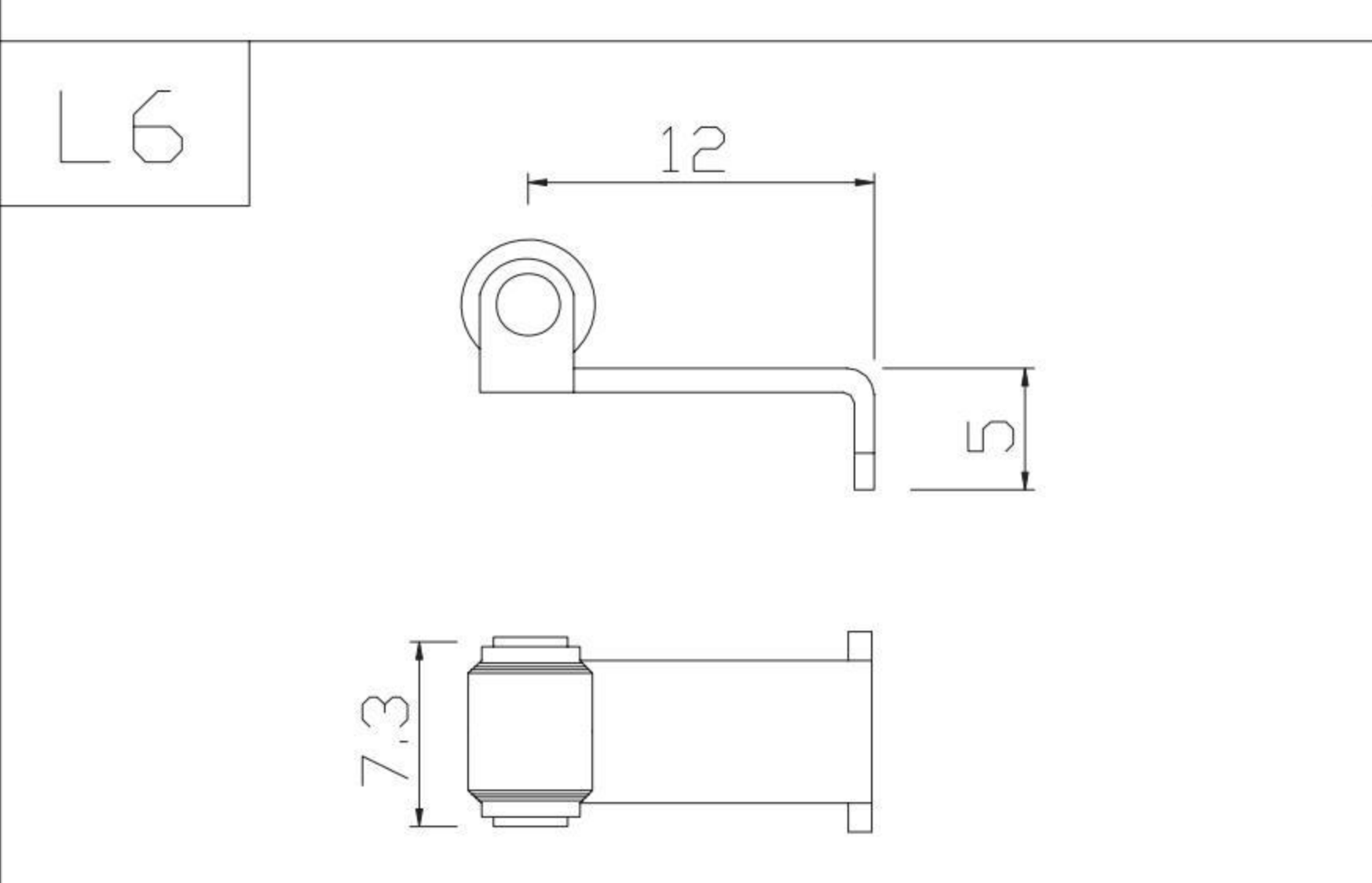
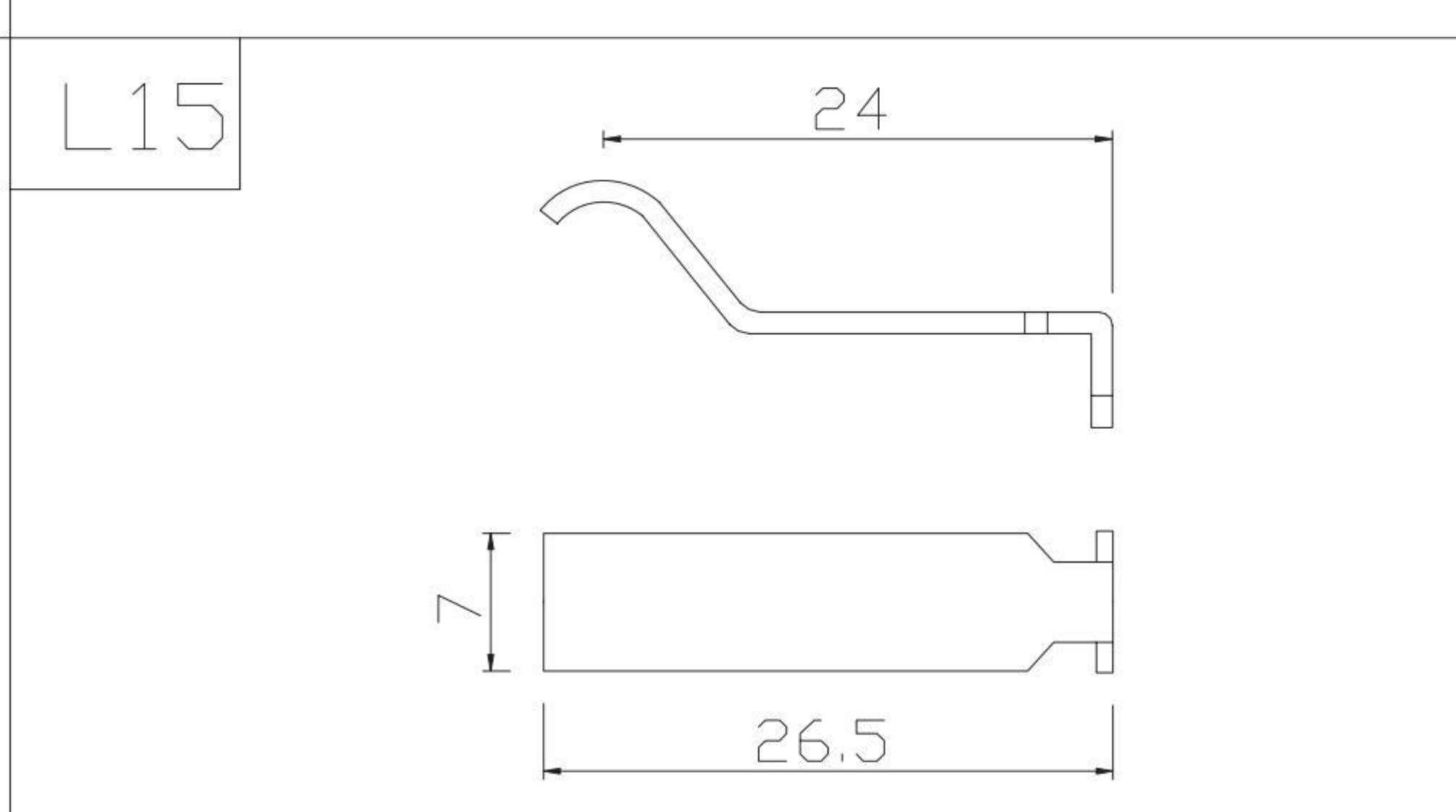
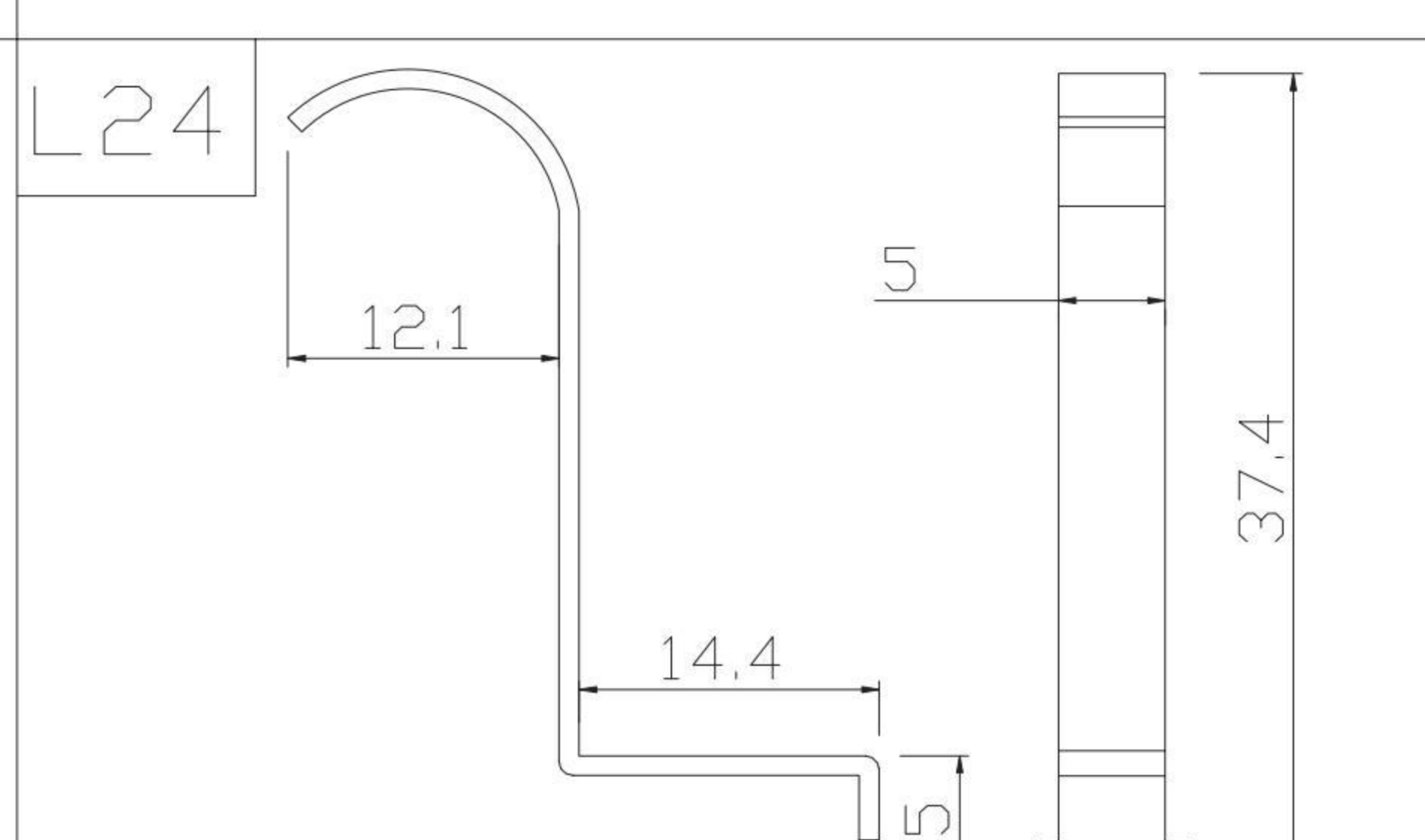
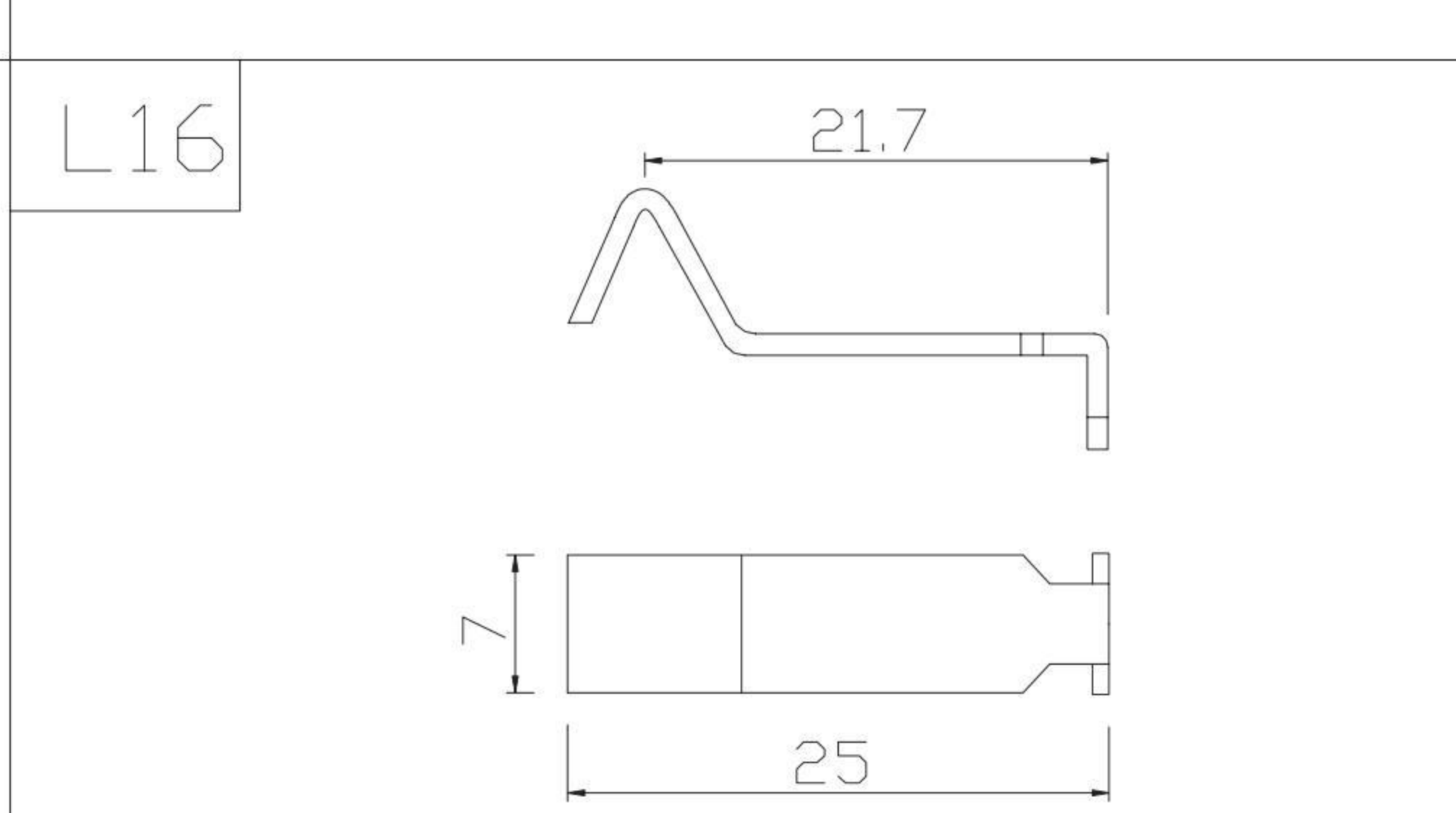
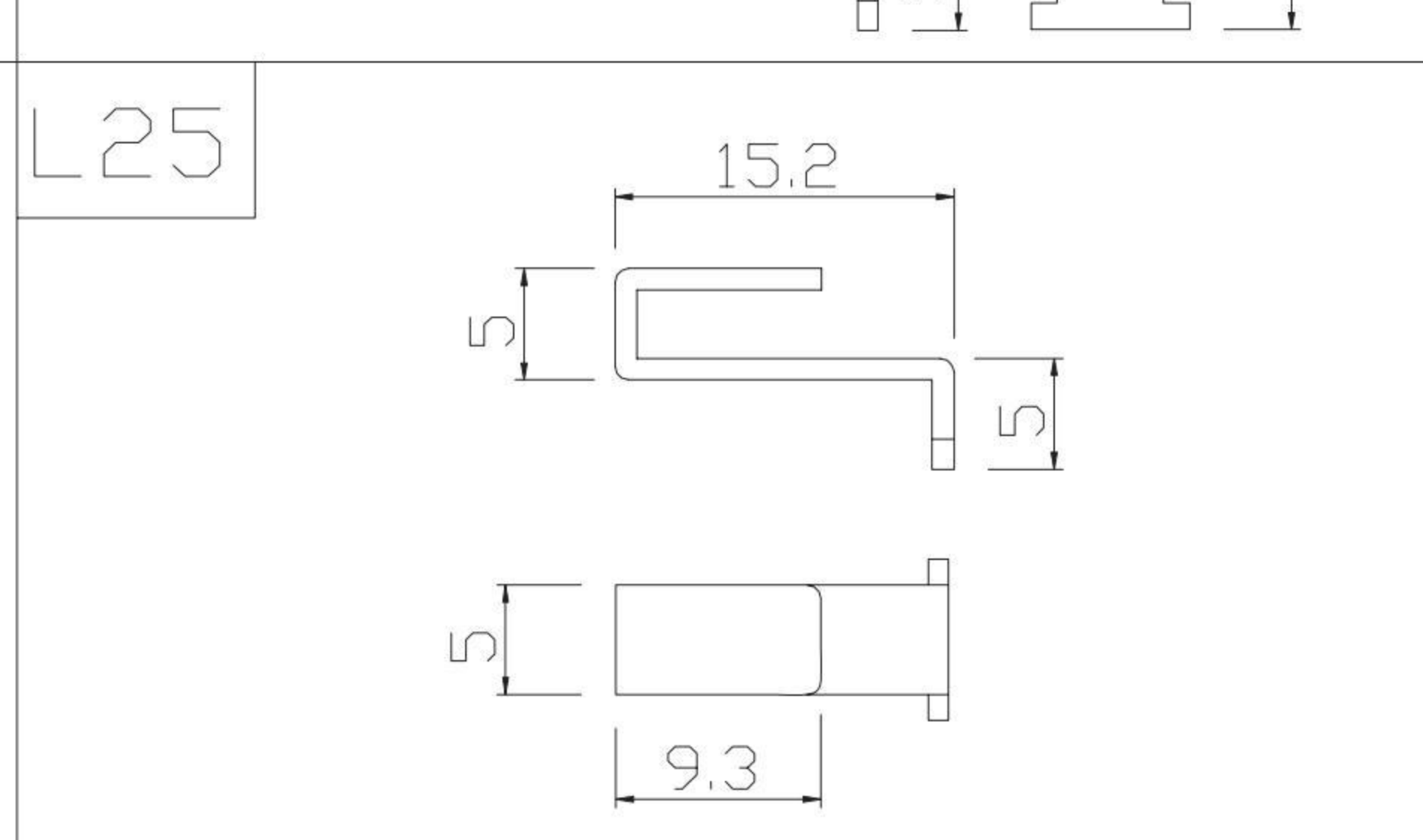
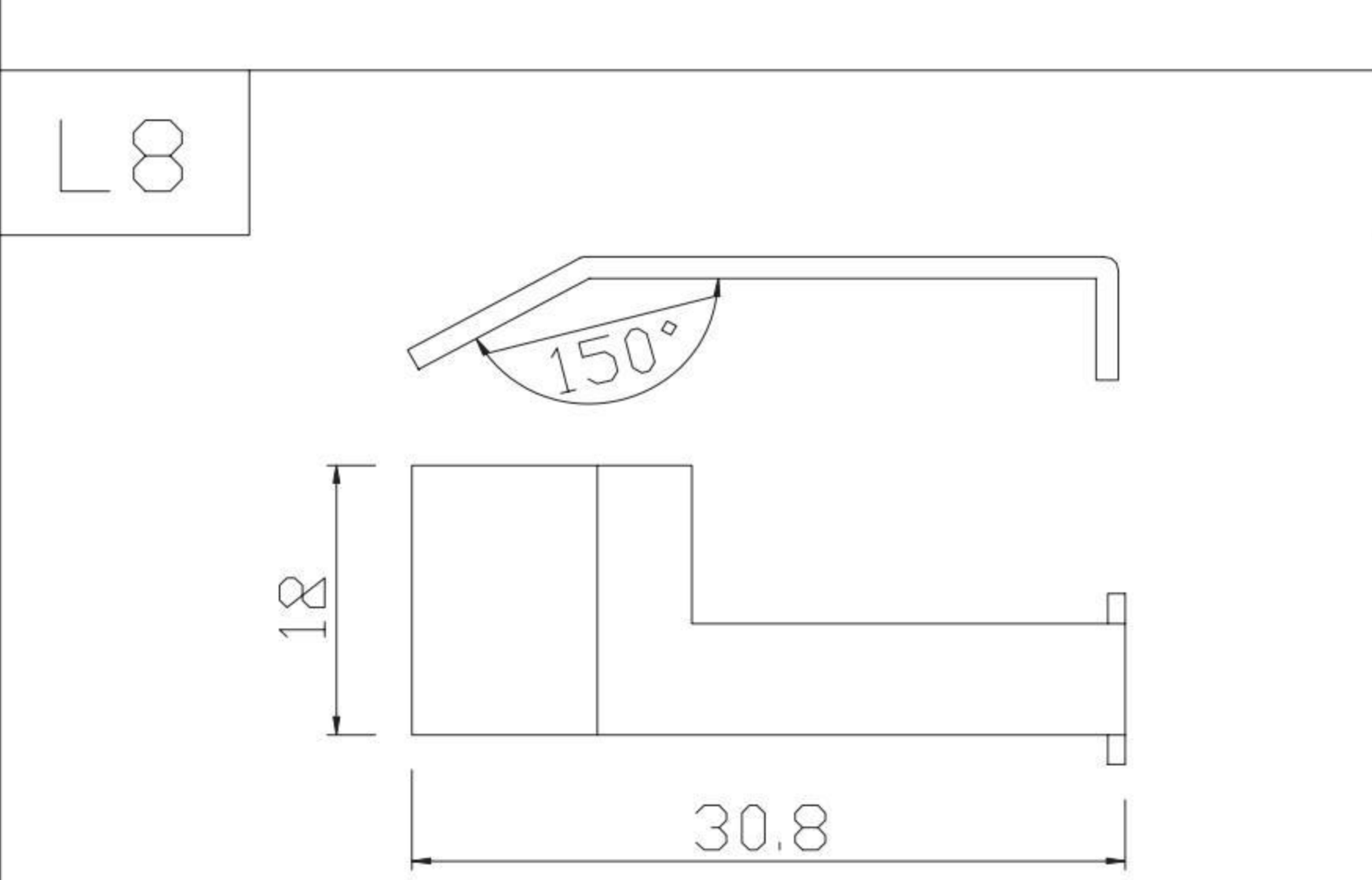
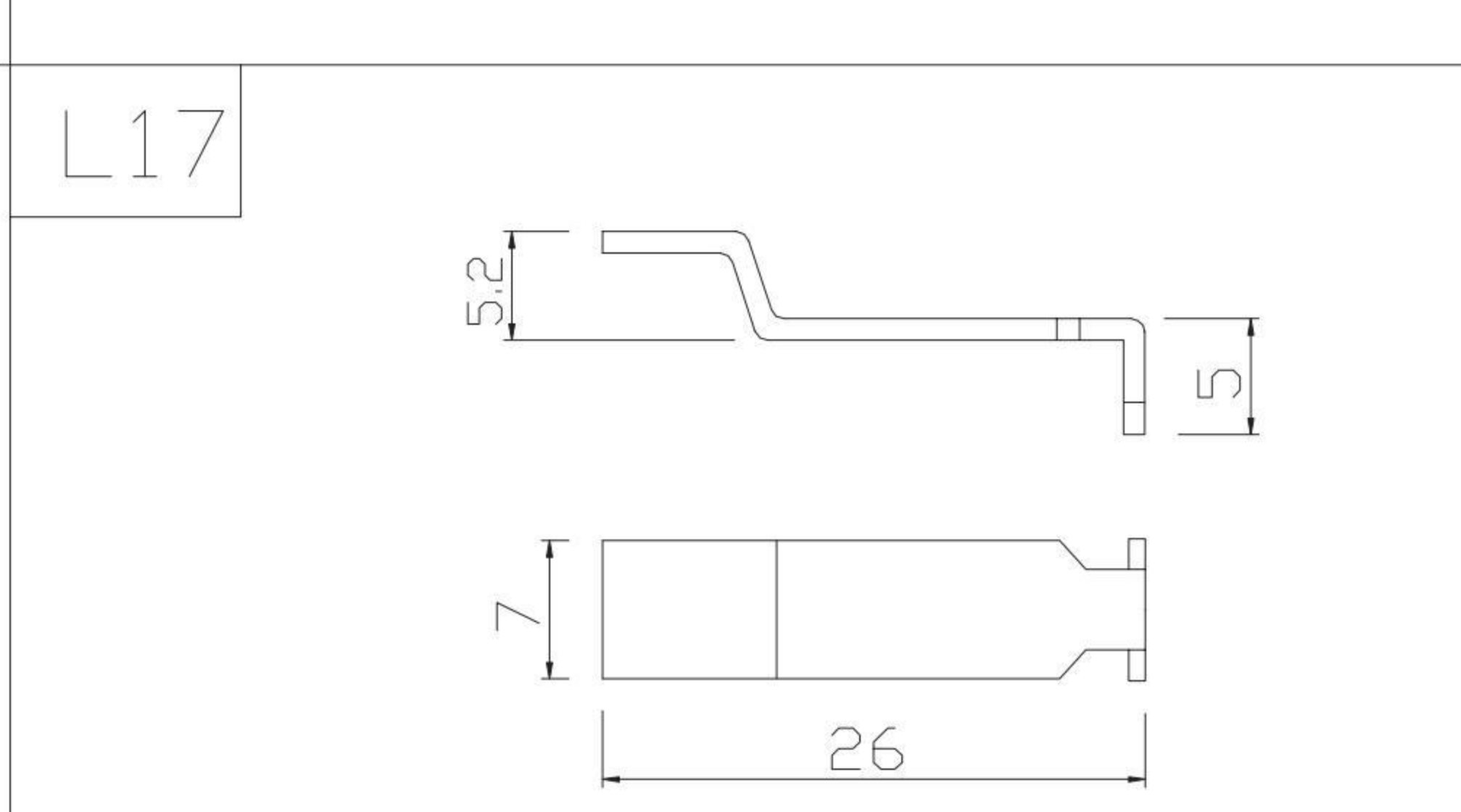
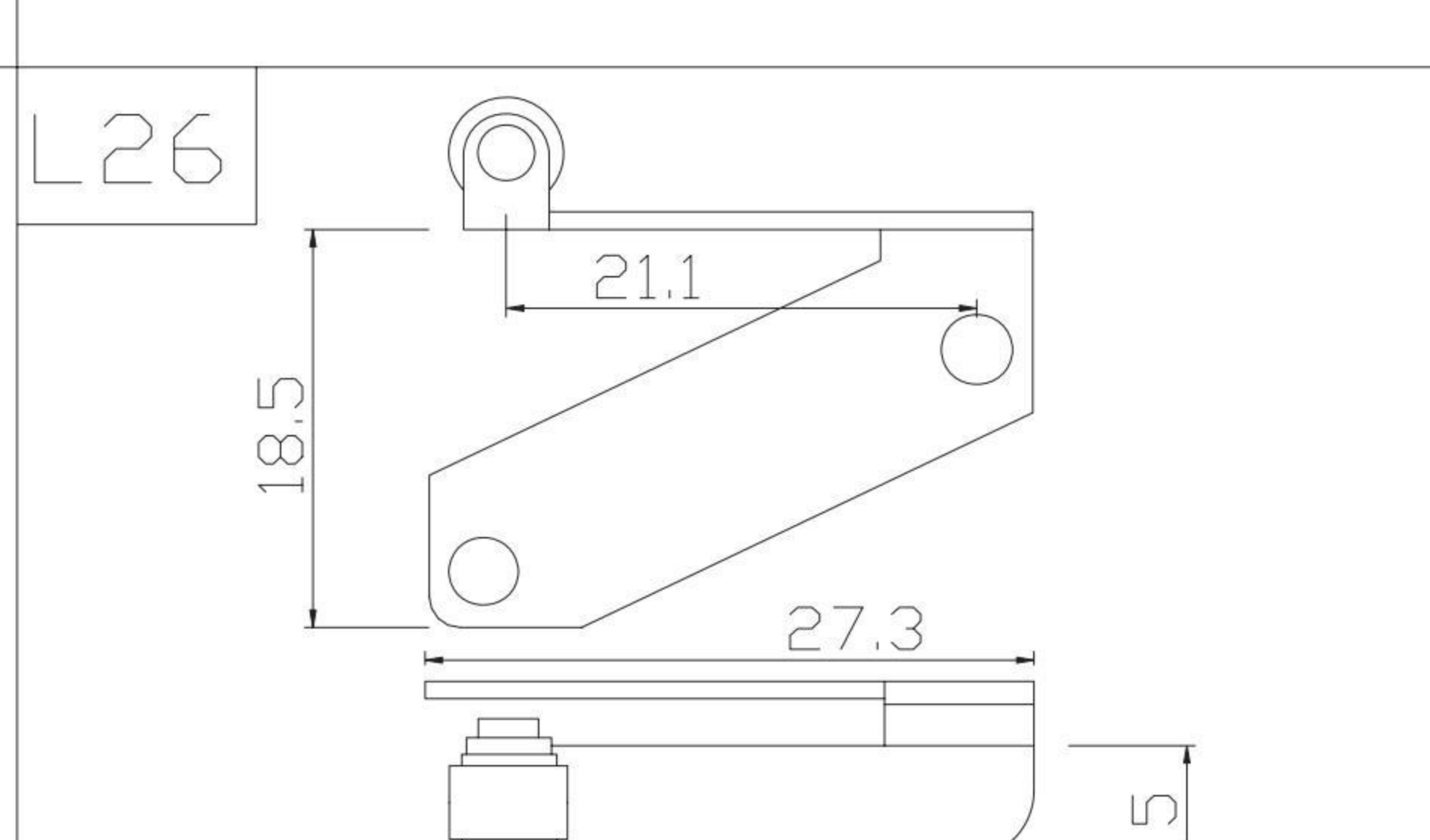
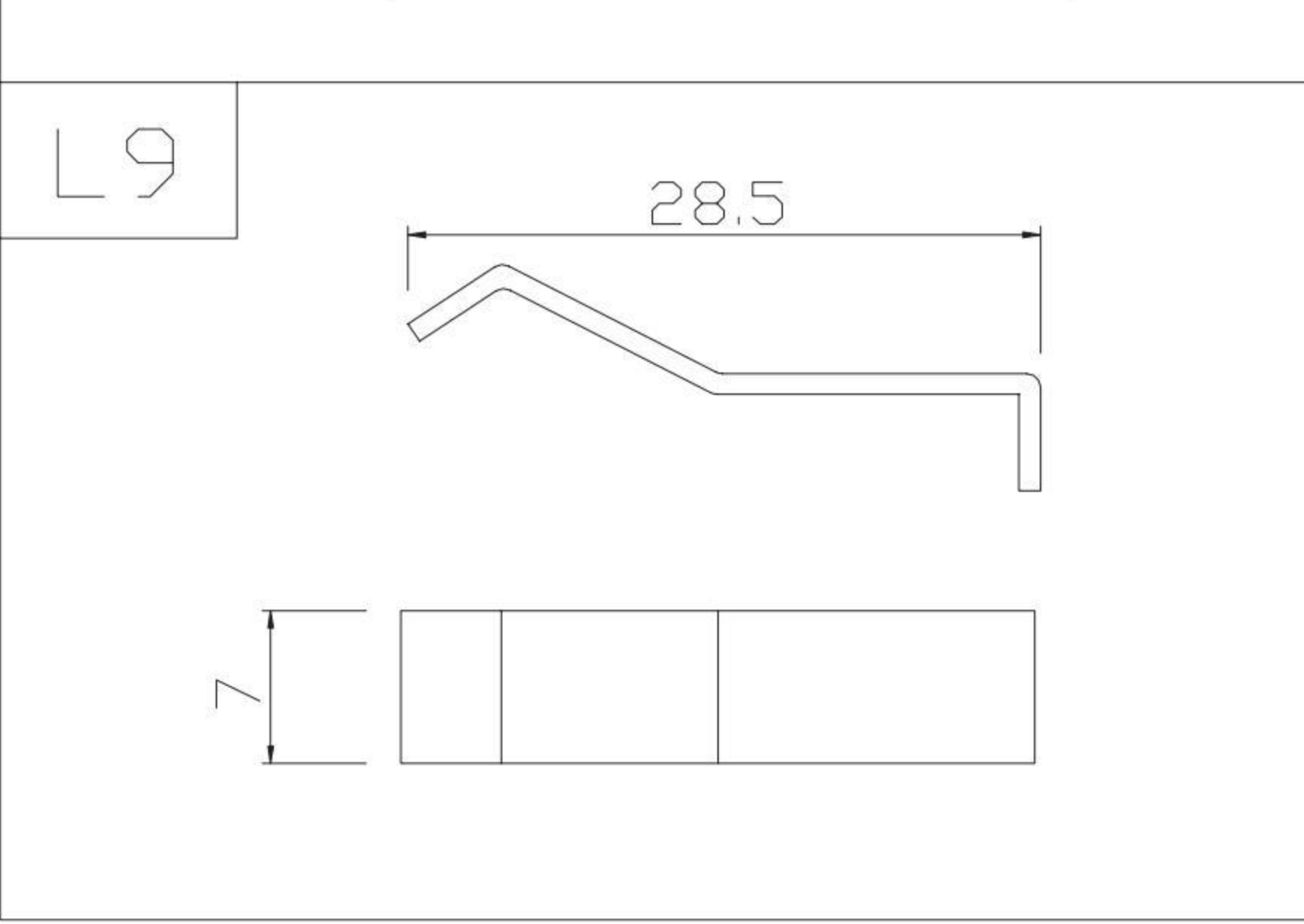
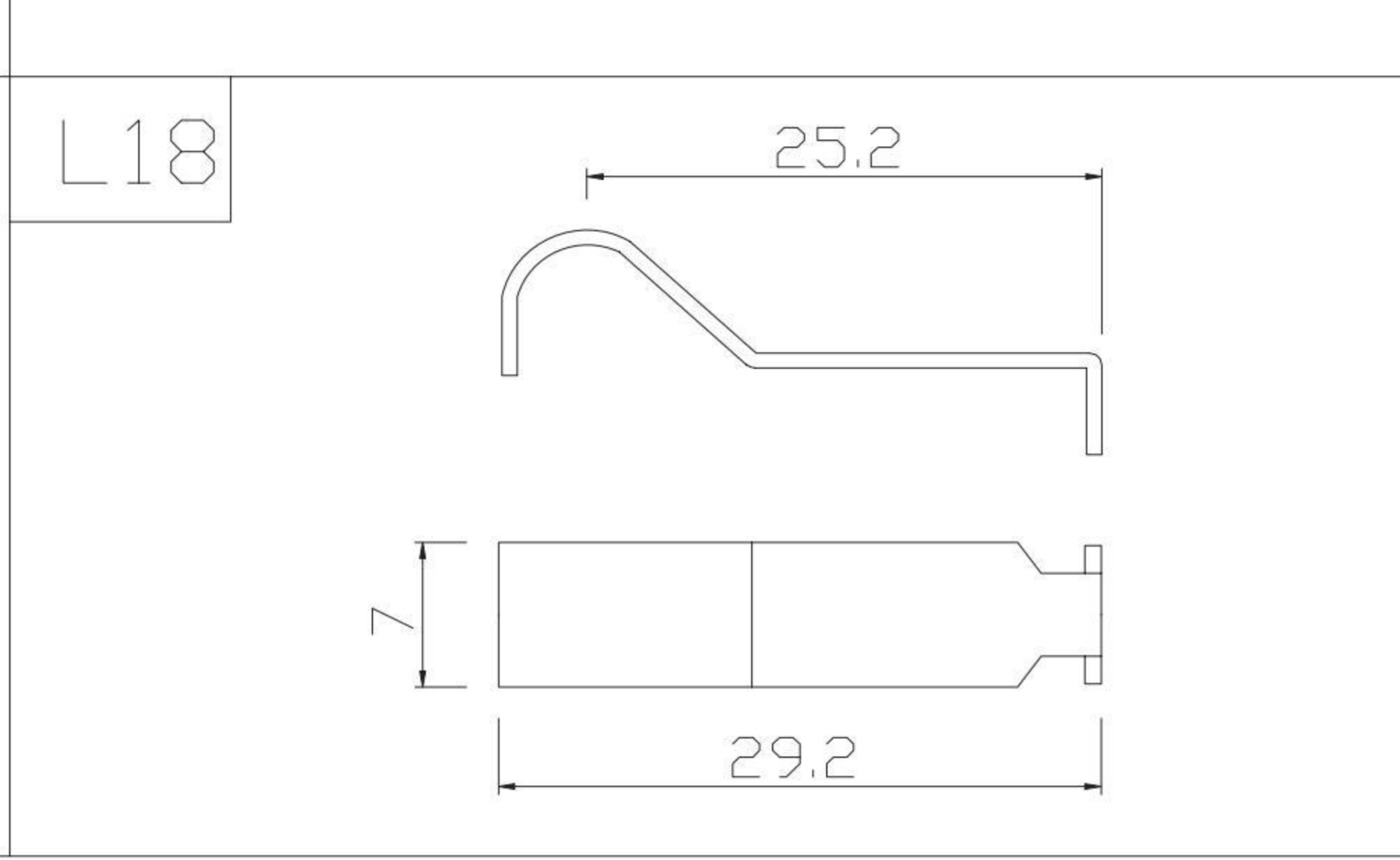
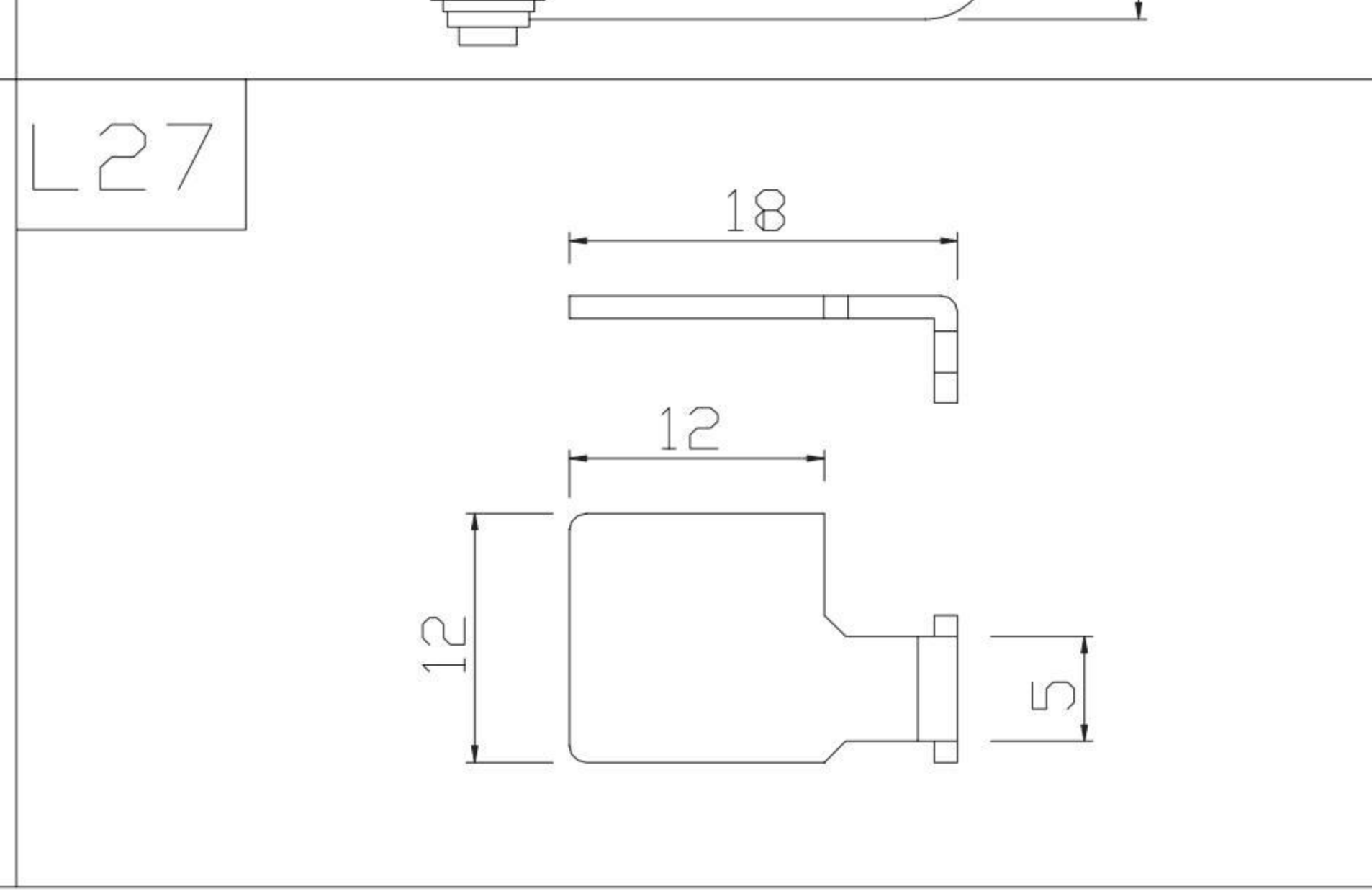
L1 	L10 	L19
L2 	L11 	L20

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L3 	L12 	L21 
L4 	L13 	L22 
L5 	L14 	L23 
L6 	L15 	L24 
L7 	L16 	L25 
L8 	L17 	L26 
L9 	L18 	L27 

All specification & dimensions are subject to change, please call your nearest ETC sales representative for update information

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ETC7-KW3-OZ-A133013L

Technical drawing showing top and side views of the micro switch. Dimensions include: 10.4, 3.8, 3, 15.8, 10.4, 2.7, 22.2, 3.3, 4, 15, 9.5, 28, 10, 6.2, 0.5, 3.2, 3.4, 16.5, 4.8, 6.3, PT, DP, NC, NO, COM.

Model	ETC7-KW3-OZ-A133013L
□F (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	2.3
□P Min(mm)	16.5

ETC7-KW3-OZ-A123013L

Technical drawing showing top and side views of the micro switch. Dimensions include: 10.4, 3.8, 3, 15.8, 10.4, 2.7, 22.2, 3.3, 4, 15, 9.5, 28, 10, 6.2, 0.8, 3.2, 3.4, 16.5, 4.8, 6.3, PT, DP, NC, NO, COM.

Model	ETC7-KW3-OZ-A123013L
□F (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	2.3
□P Min(mm)	16.5

ETC7-KW3-OZ-A113013L

Technical drawing showing top and side views of the micro switch. Dimensions include: 10.4, 3.8, 3, 15.8, 10.4, 2.7, 22.2, 3.3, 4, 15, 12, 28, 12, 6.2, 0.8, 3.2, 3.4, 16.5, 6.3, 7.7, PT, DP, NC, NO, COM.

Model	ETC7-KW3-OZ-A113013L
□F (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	2.3
□P Min(mm)	16.5

ETC7-KW3-OZ-A113013

Technical drawing showing top and side views of the micro switch. Dimensions include: 10.4, 3.8, 3, 15.8, 10.4, 2.7, 22.2, 3.3, 4, 15, 12, 28, 11.7, 8.6, 6.2, 0.8, 3.2, 3.4, 16.5, 6.3, 7.7, PT, DP, NC, NO, COM.

Model	ETC7-KW3-OZ-A113013
□F (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	2.3
□P Min(mm)	16.5

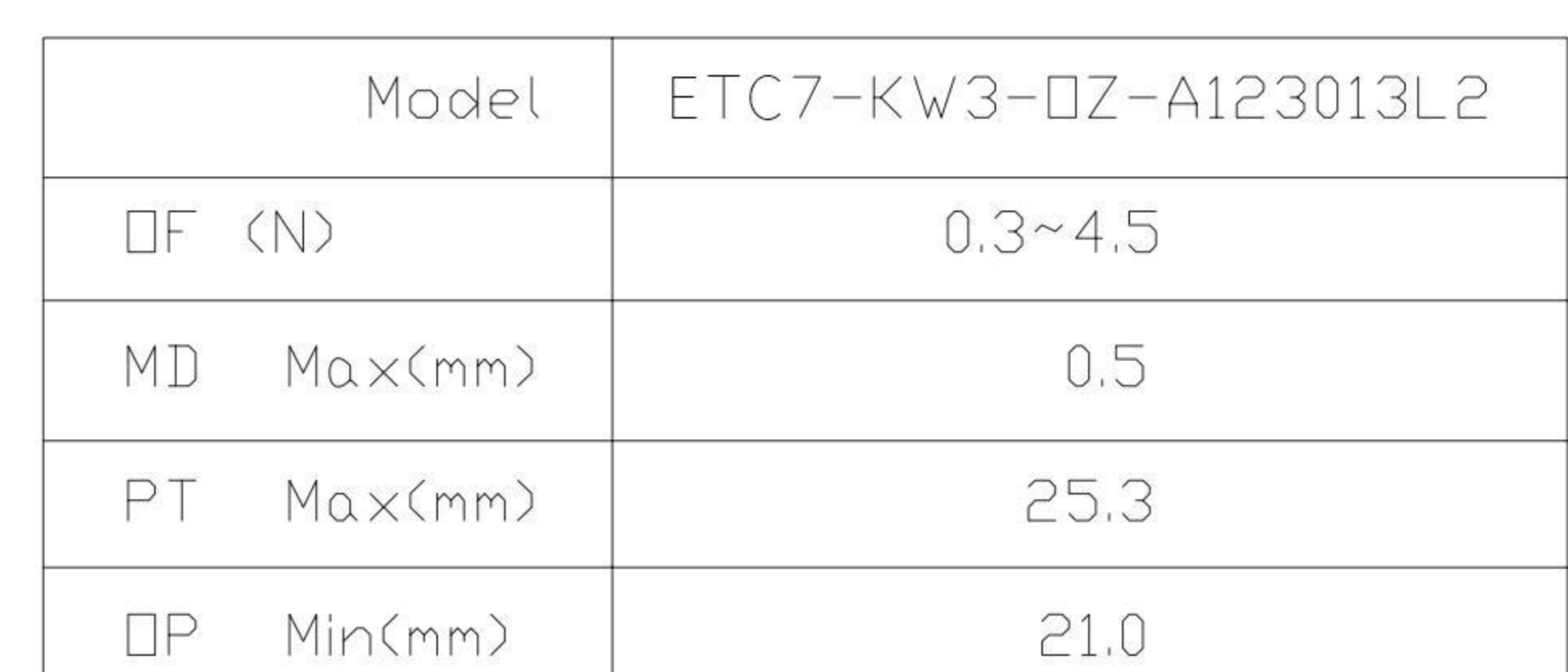
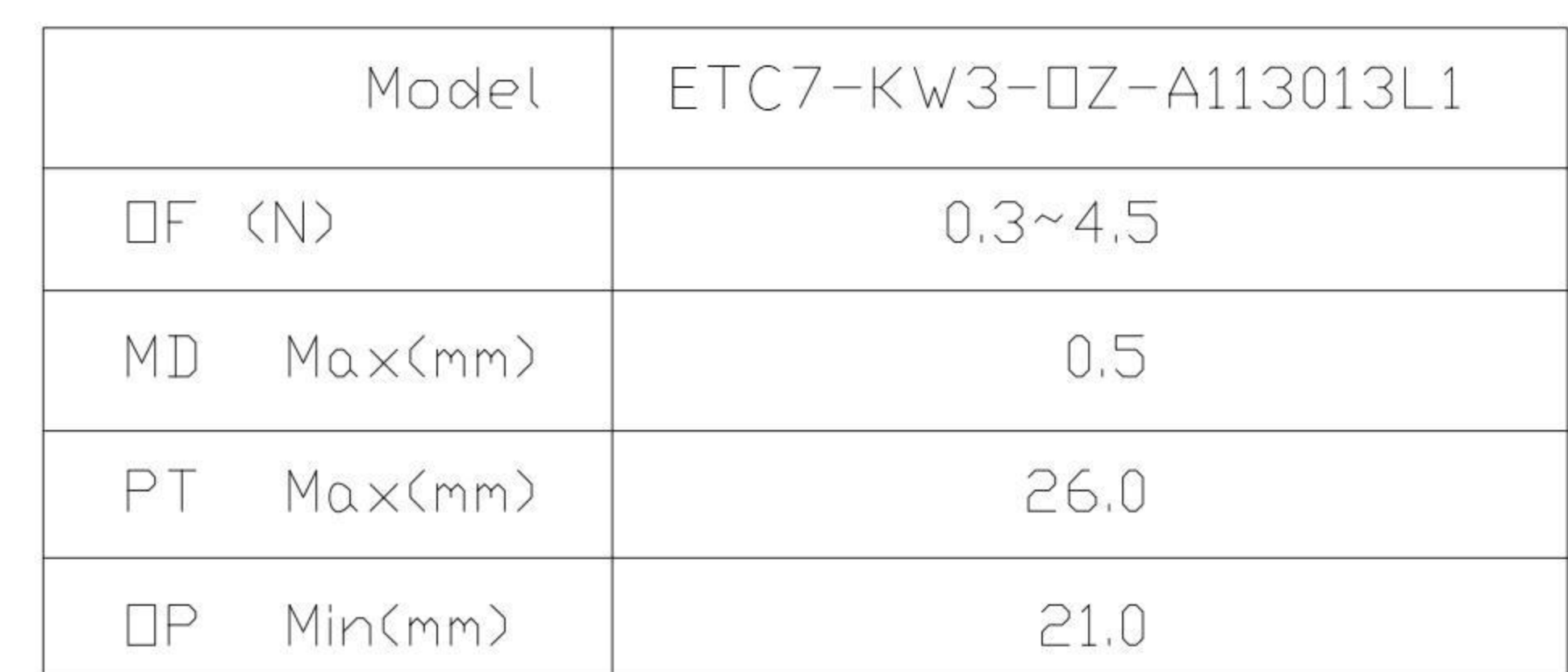
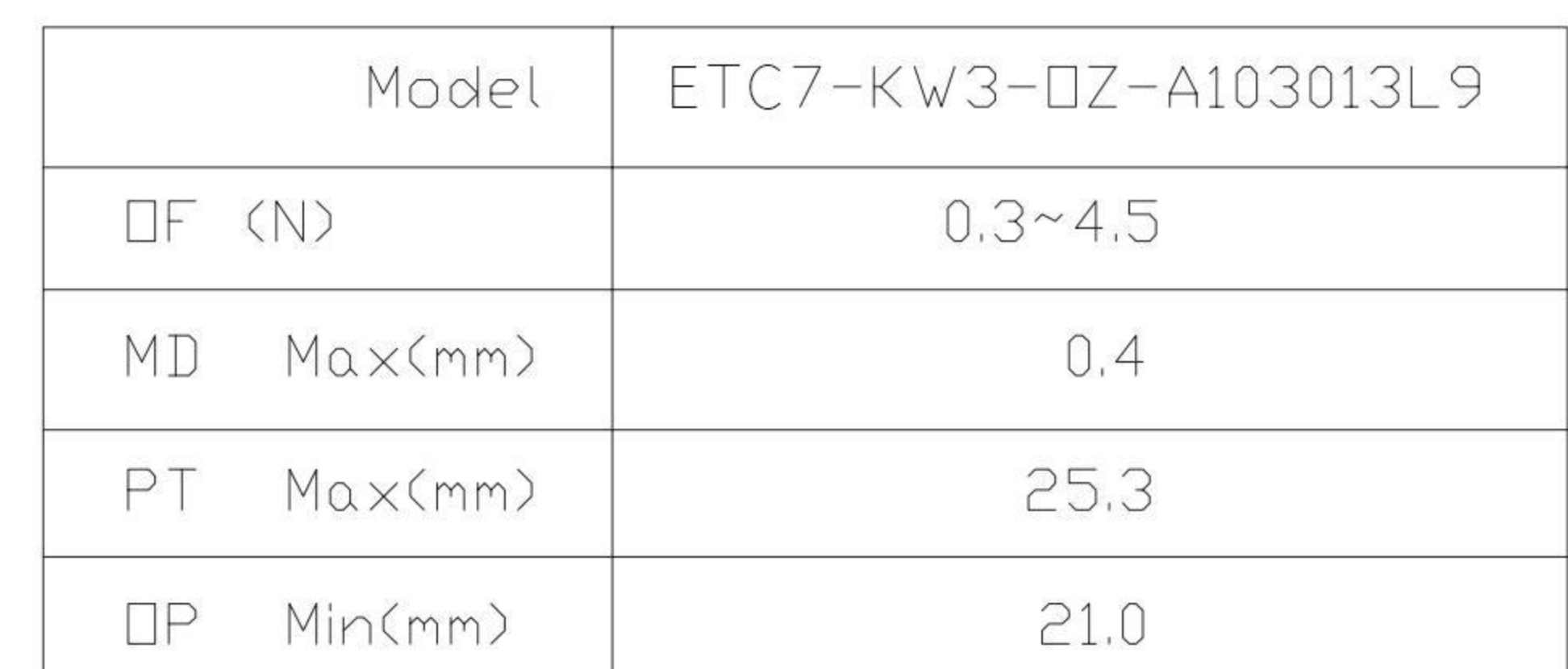
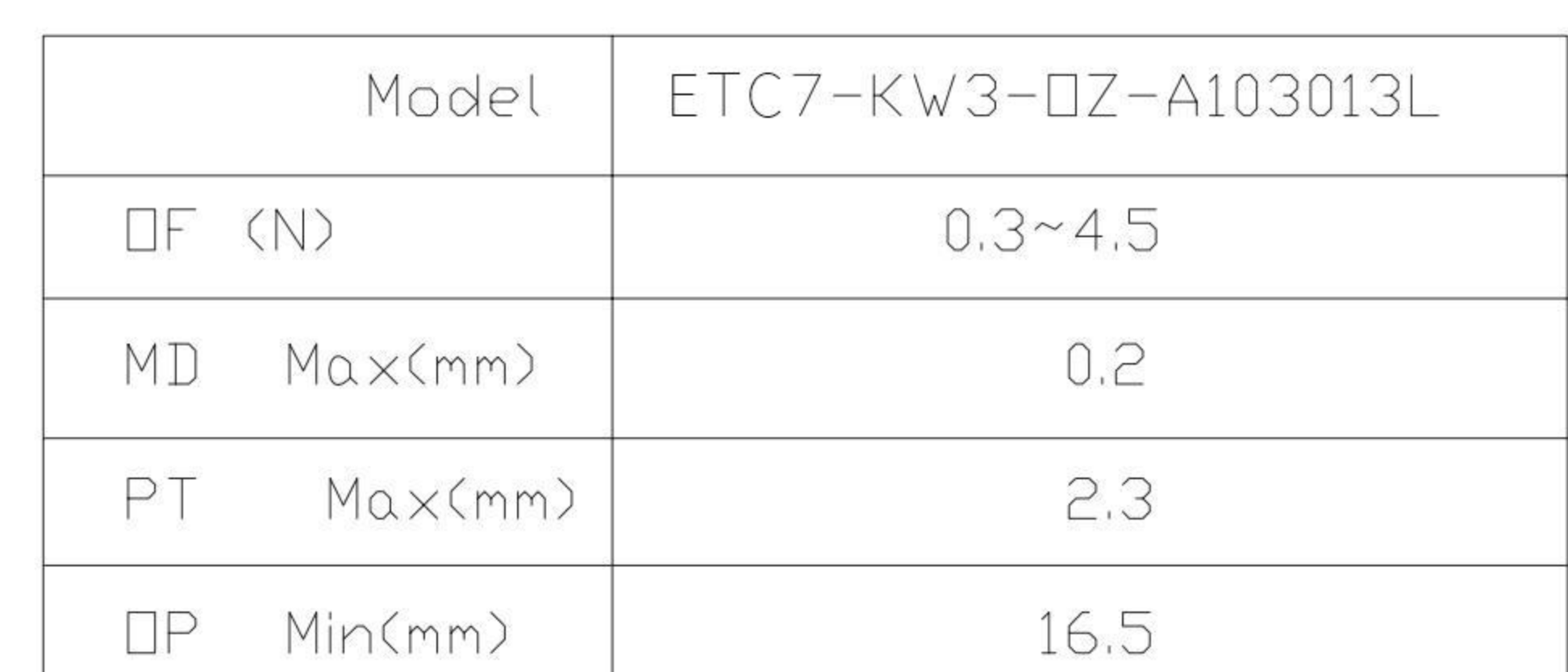
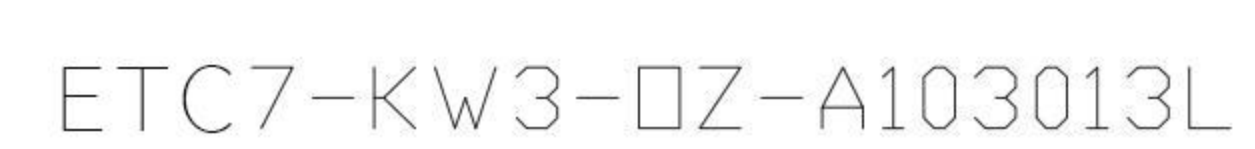
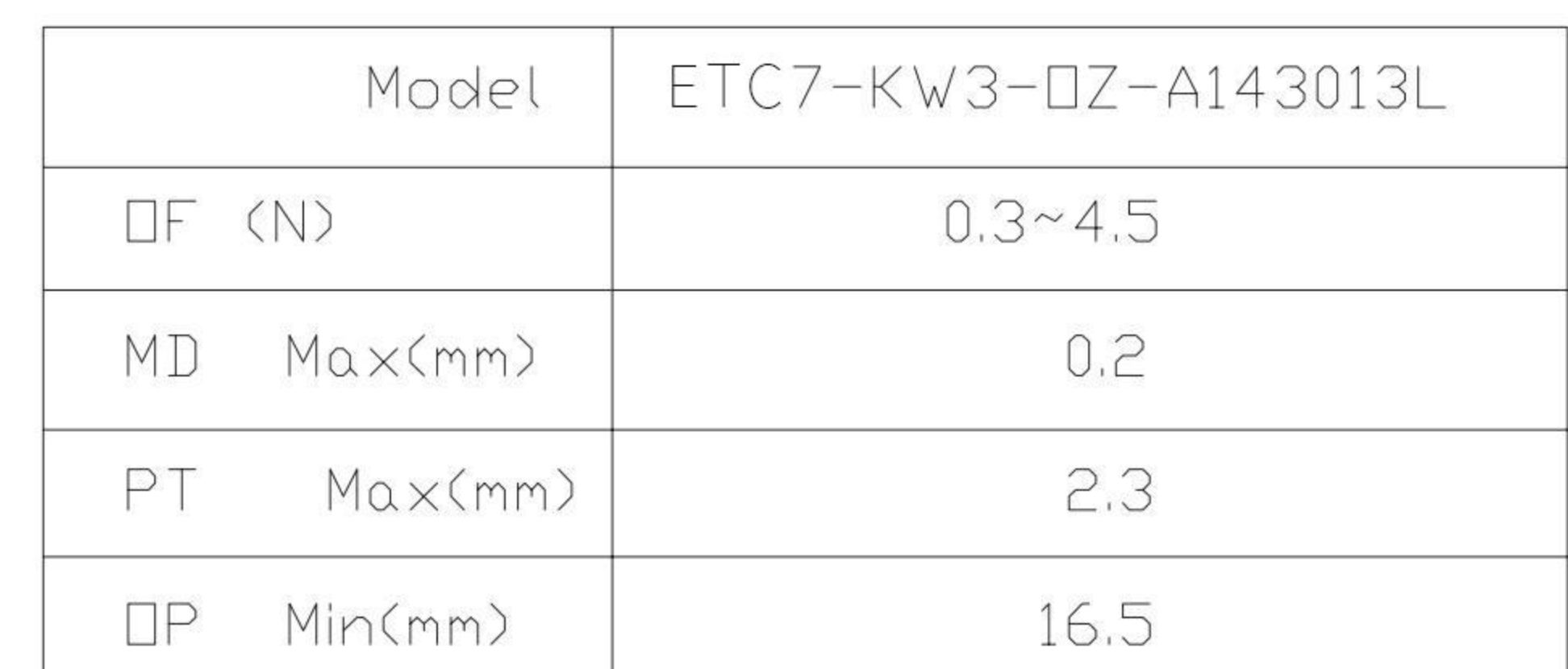
ETC7-KW3-OZ-A223013L

Technical drawing showing top and side views of the micro switch. Dimensions include: 10.4, 3.8, 3, 15.8, 10.4, 2.7, 22.2, 3.3, 4, 15, 9.5, 28, 10, 6.2, 0.8, 3.2, 3.4, 16.5, 4.8, 6.3, PT, DP, NC, NO, COM.

Model	ETC7-KW3-OZ-A223013L
□F (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	2.3
□P Min(mm)	16.5

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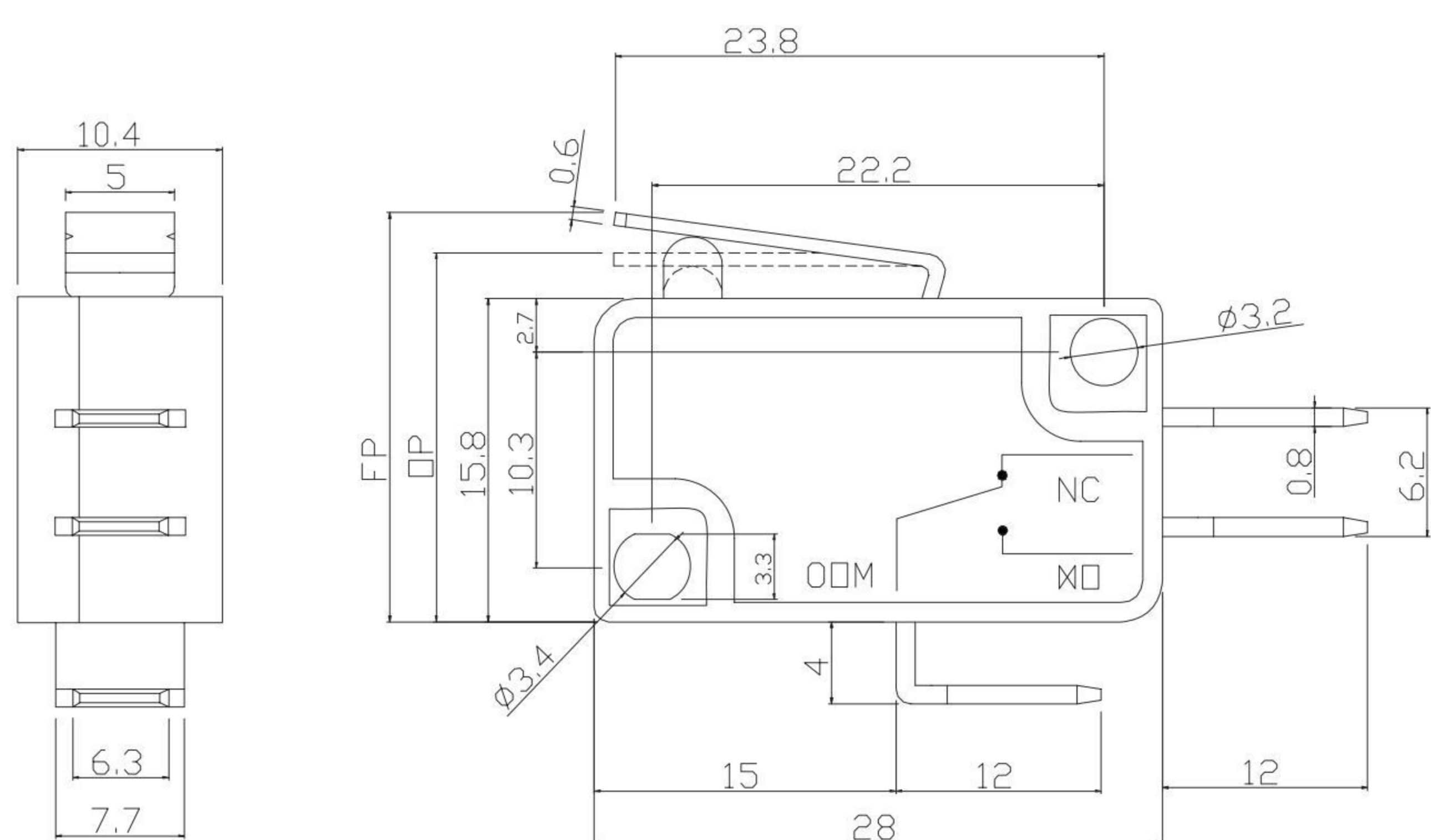
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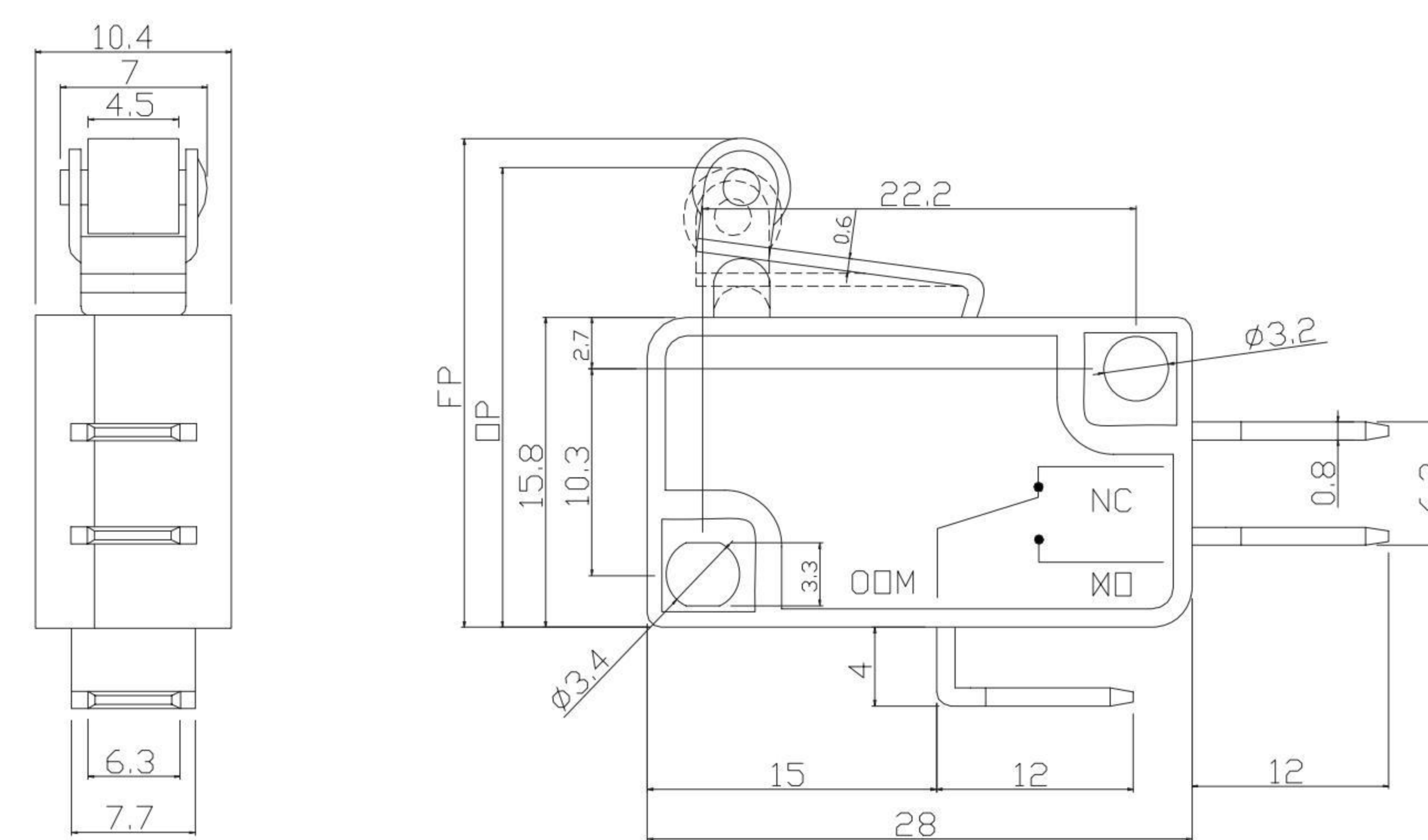
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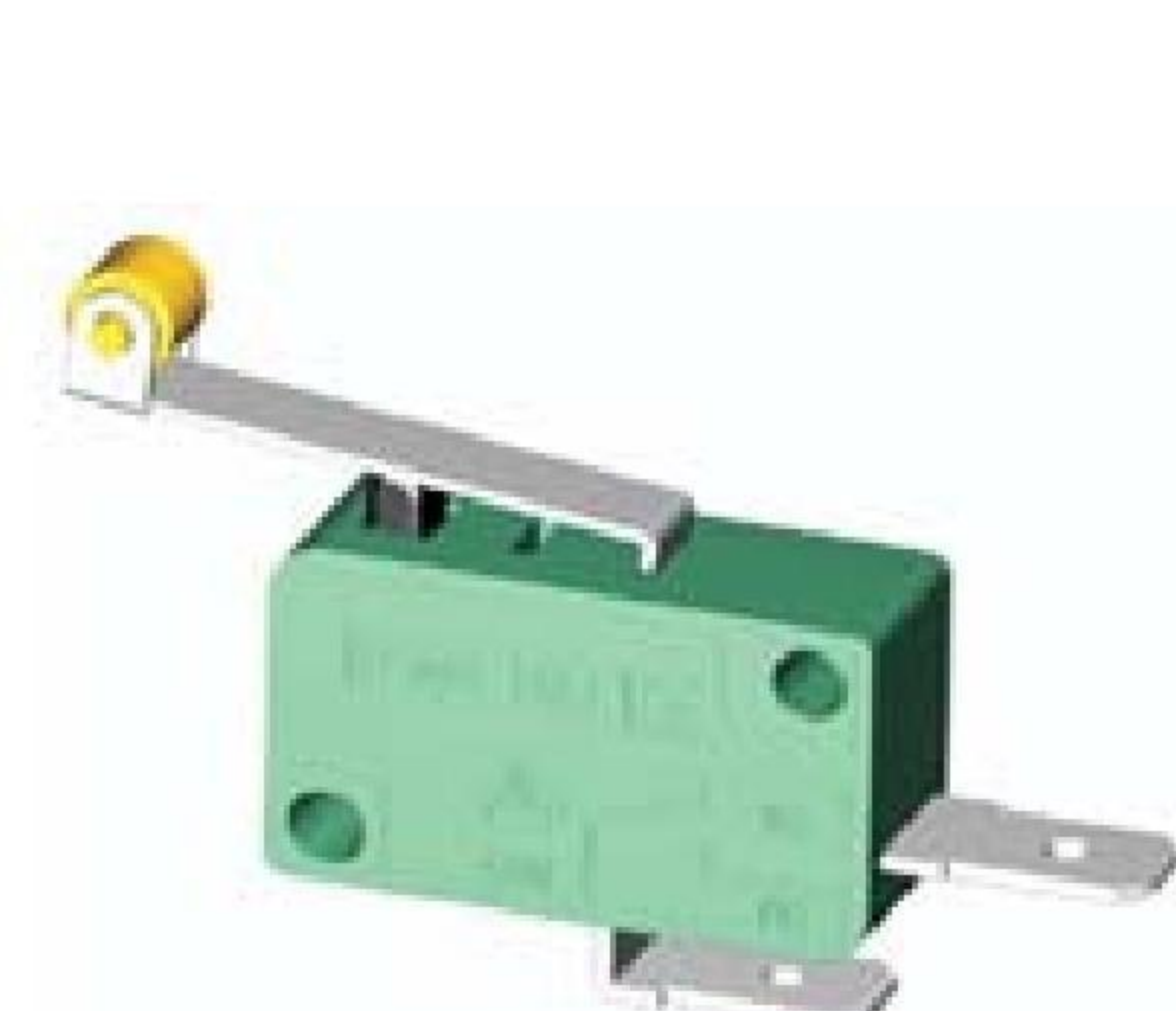
Model	ETC7-KW3-□Z-A113013L4
□F (N)	0.3~4.5
MD Max(mm)	0.3
PT Max(mm)	19.8
□P Min(mm)	17.0



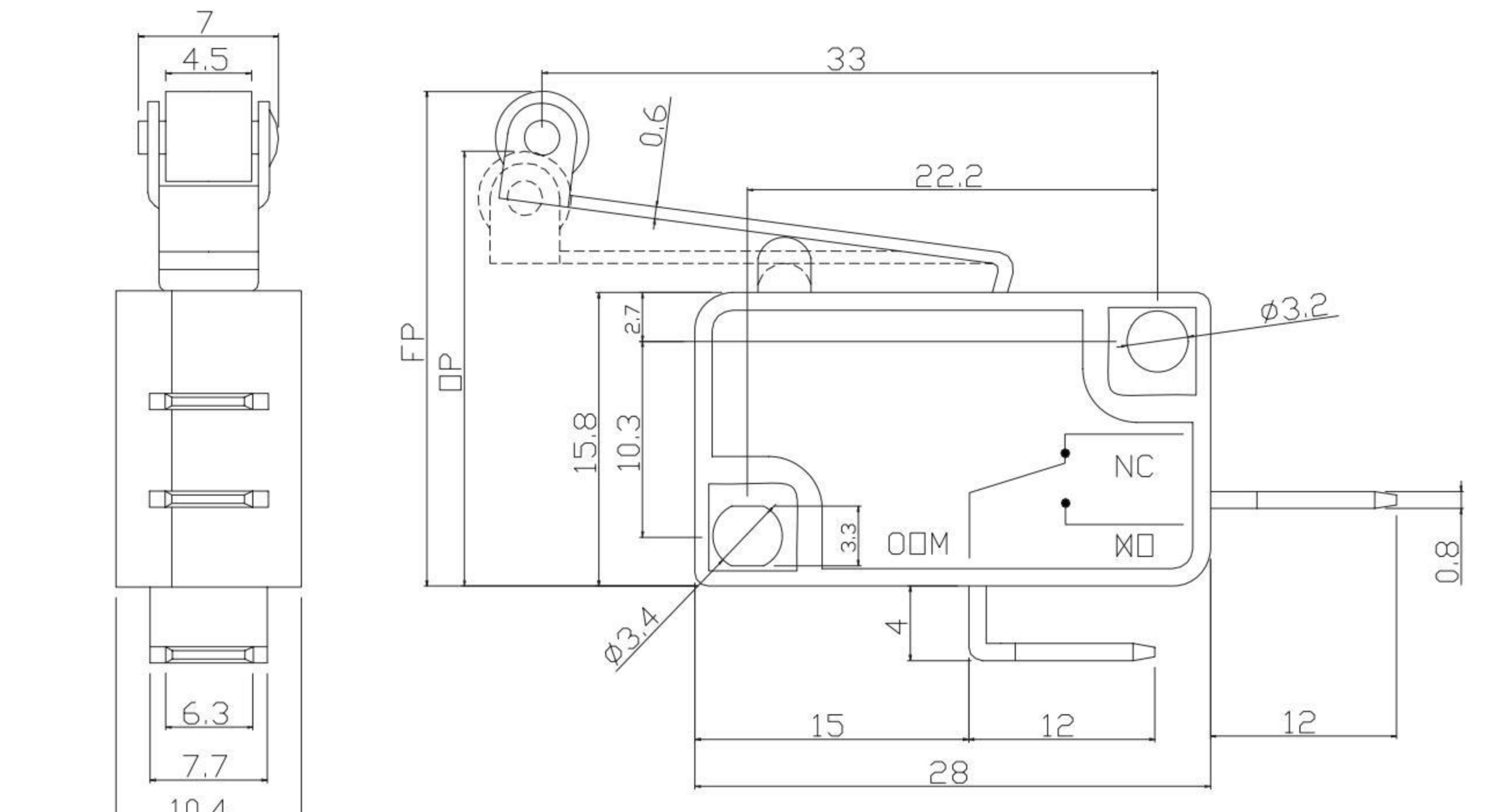
ETC7-KW3-□Z-A113033L6



Model	ETC7-KW3-□Z-A113033L6
□F (N)	0.3~4.5
MD Max(mm)	0.3
PT Max(mm)	25.0
□P Min(mm)	22.8



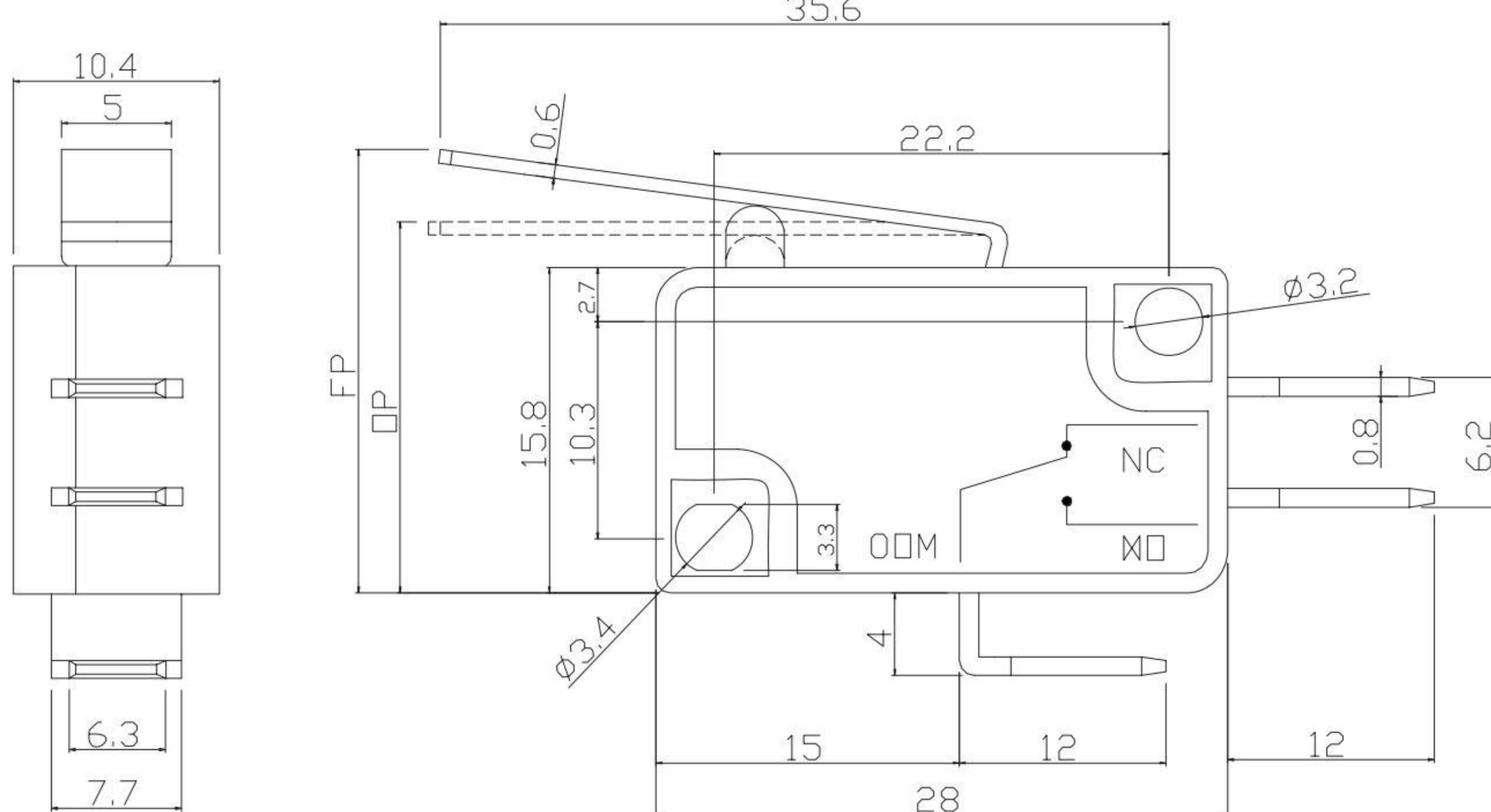
ETC7-KW3-□Z-A213013L1



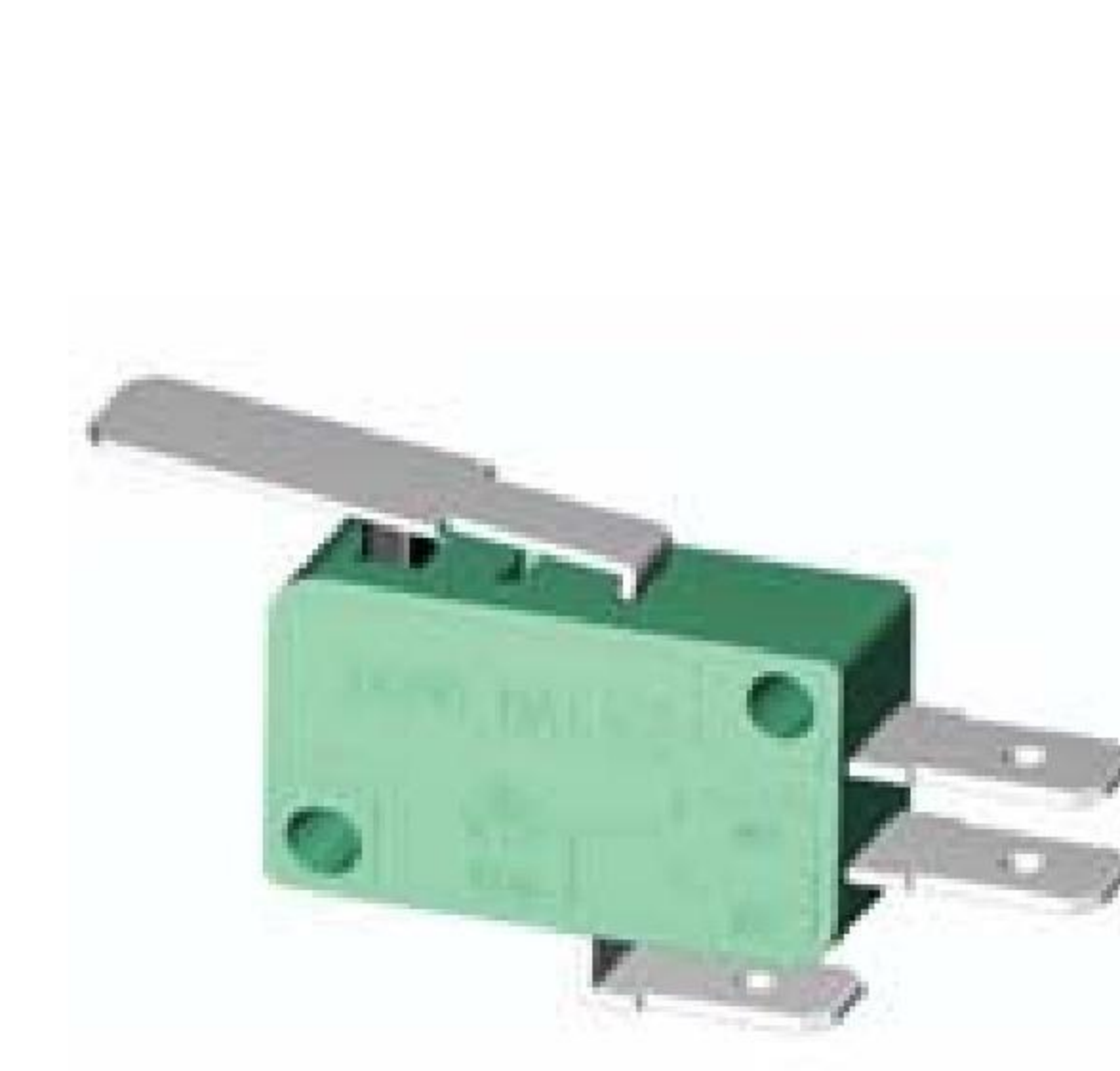
Model	ETC7-KW3-□Z-A213013L1
□F (N)	0.3~4.5
MD Max(mm)	0.5
PT Max(mm)	26.0
□P Min(mm)	21.0



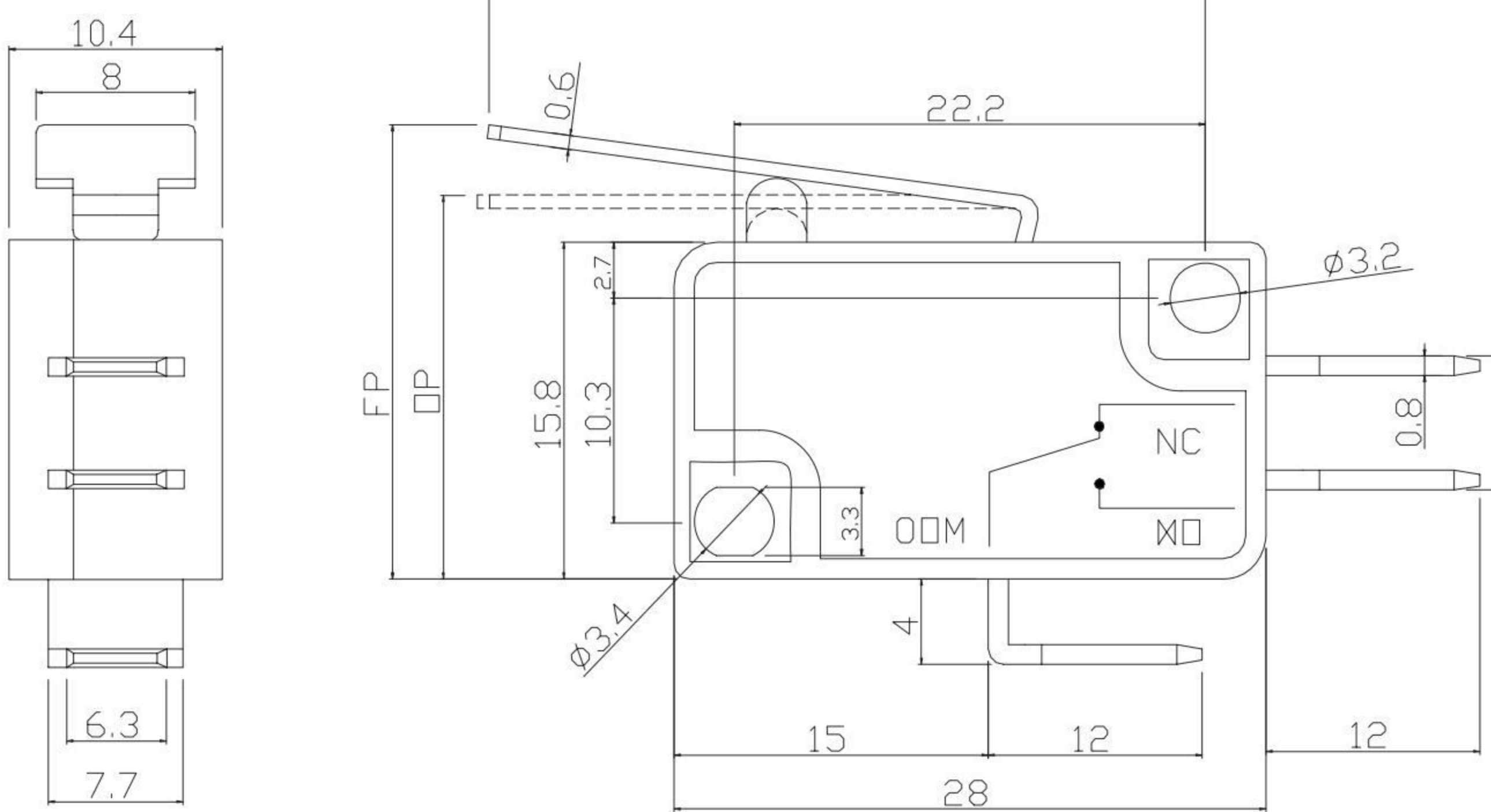
ETC7-KW3-□Z-A113013L3



Model	ETC7-KW3-□Z-A113013L3
□F (N)	0.3~4.5
MD Max(mm)	0.5
PT Max(mm)	22.5
□P Min(mm)	16.5



ETC7-KW3-□Z-A113013L5



Model	ETC7-KW3-□Z-A113013L5
□F (N)	0.3~4.5
MD Max(mm)	0.5
PT Max(mm)	21.0
□P Min(mm)	16.5

Switch

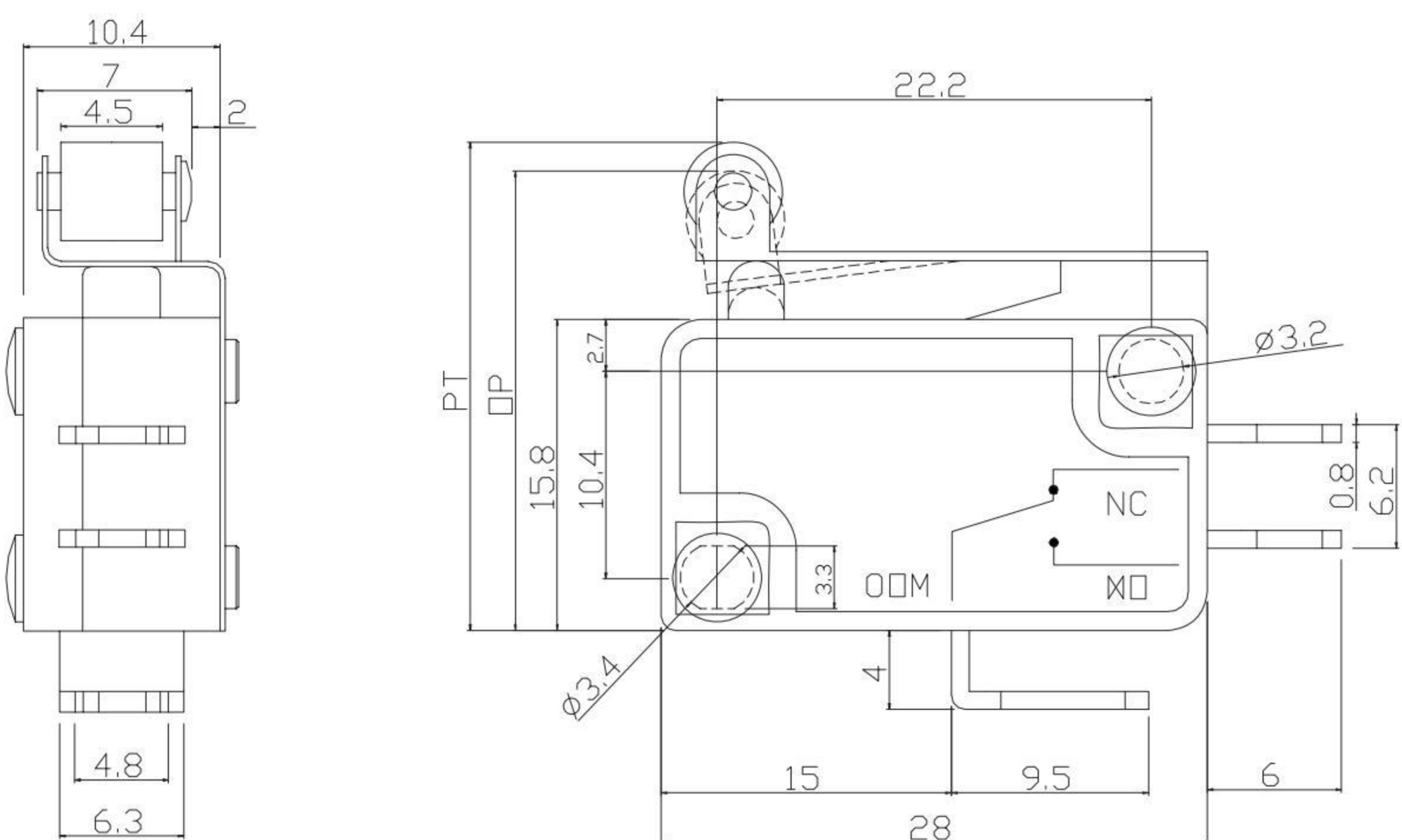
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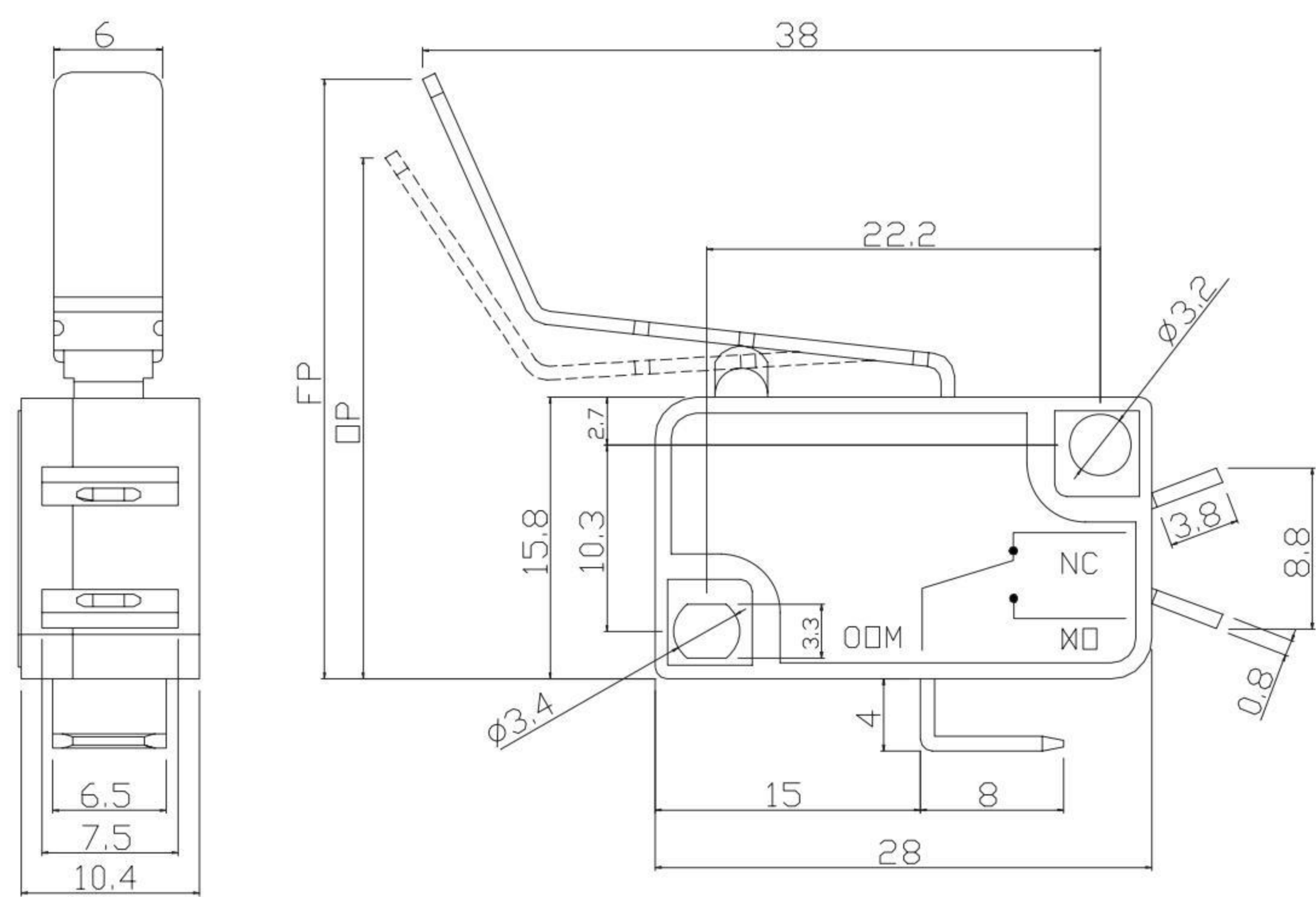
ETC7-KW3-OZ-A143013L26



Model	ETC7-KW3-OZ-A143013L26
OF (N)	0.3~4.5
MD Max(mm)	0.3
PT Max(mm)	25.0
OP Min(mm)	22.0



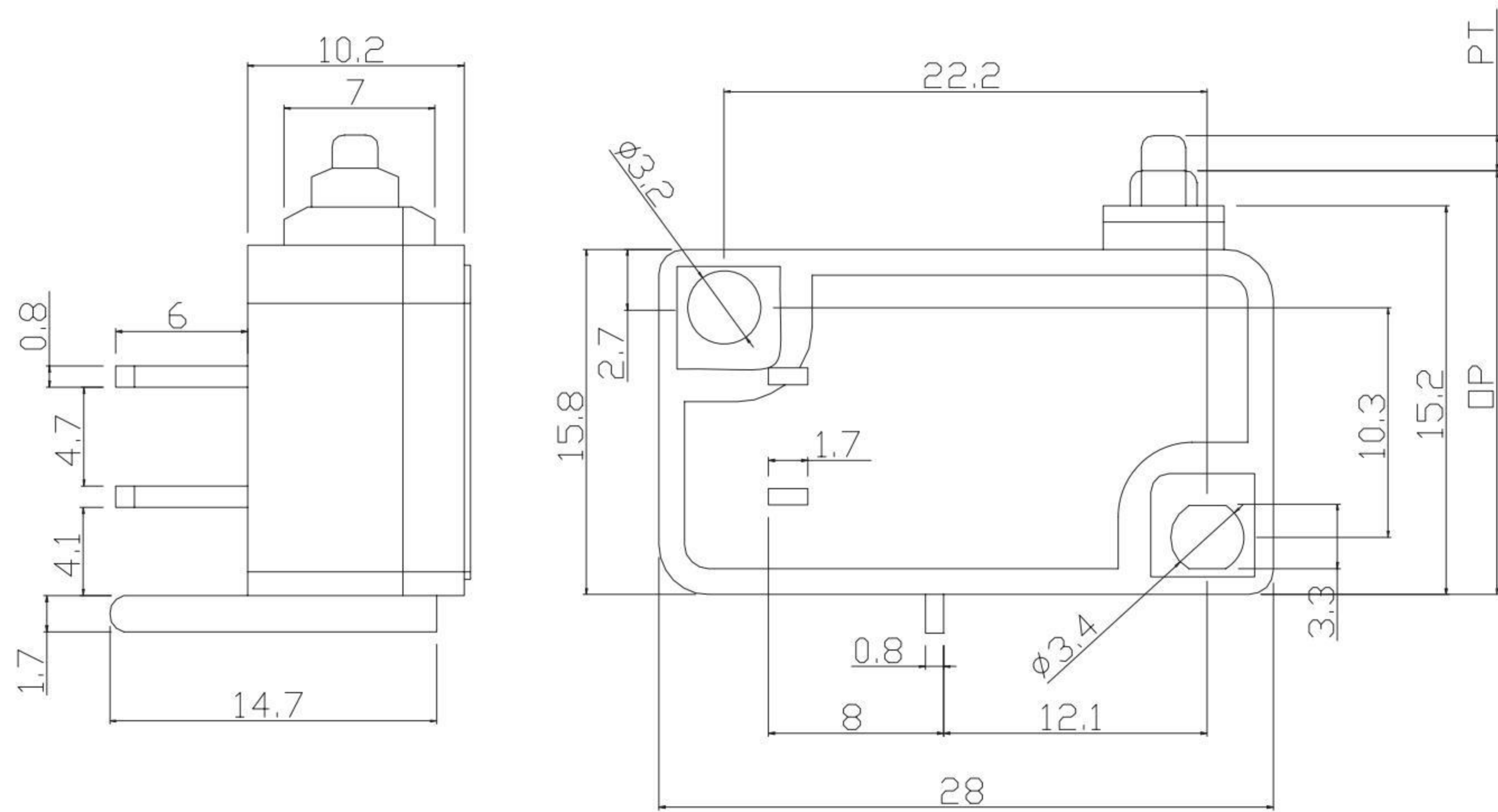
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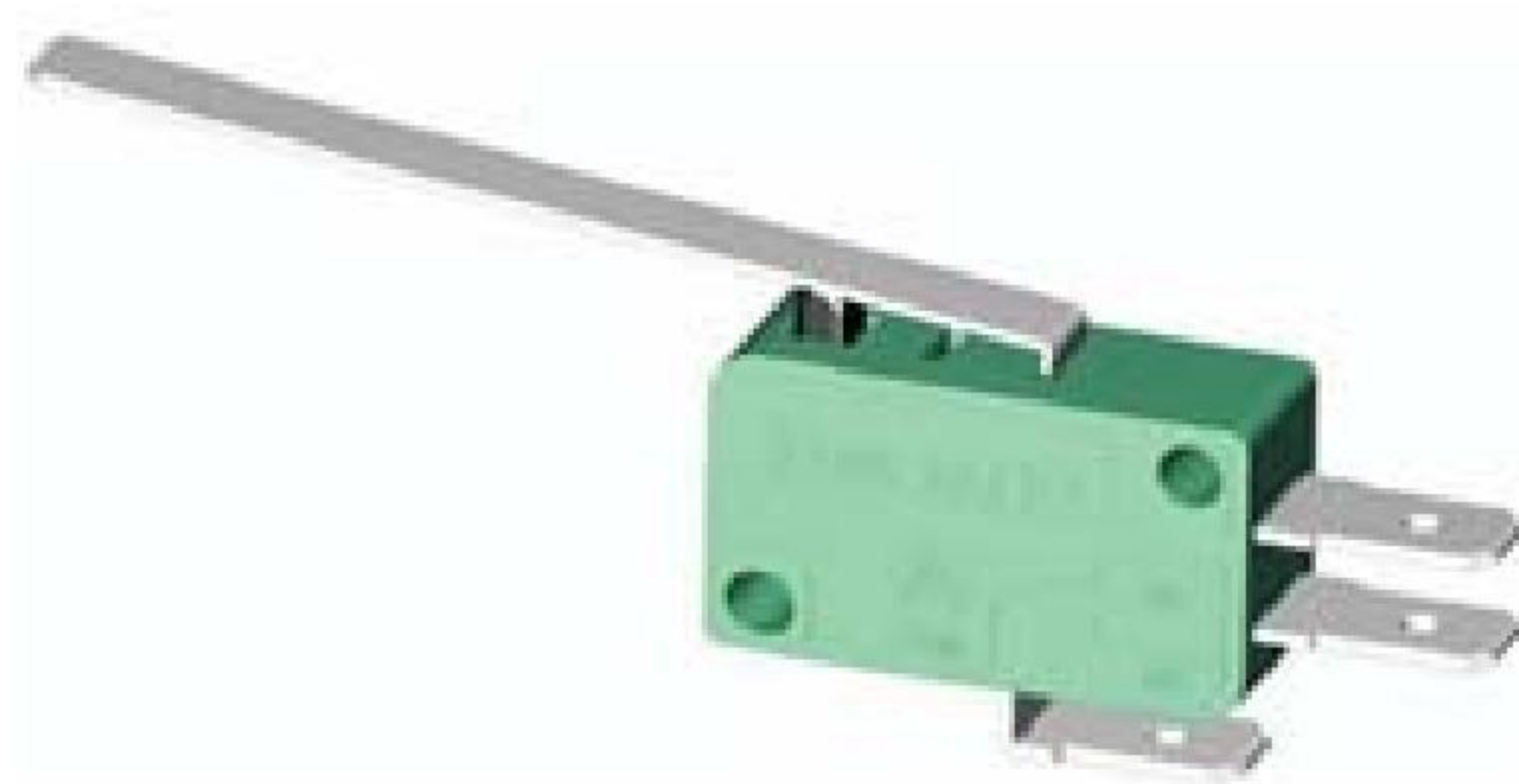
Model	ETC7-KW3-OZ-A103013L10
OF (N)	0.3~4.5
MD Max(mm)	0.8
PT Max(mm)	38.0
OP Min(mm)	22.8



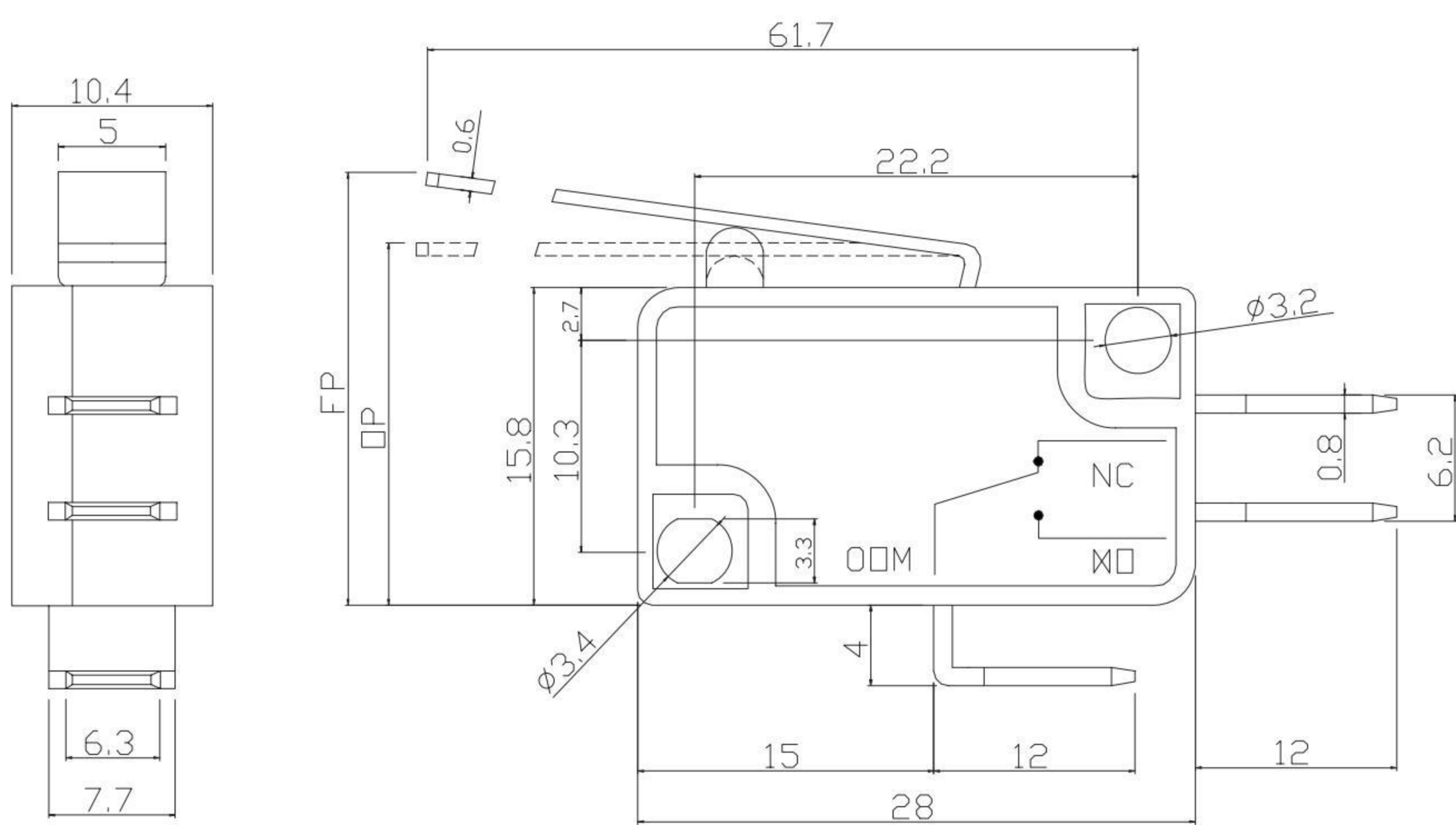
ETC7-KW3-OZ-A150013L



Model	ETC7-KW3-OZ-A150013L
OF (N)	0.3~4.5
MD Max(mm)	0.2
PT Max(mm)	1.8
OP Min(mm)	19.5



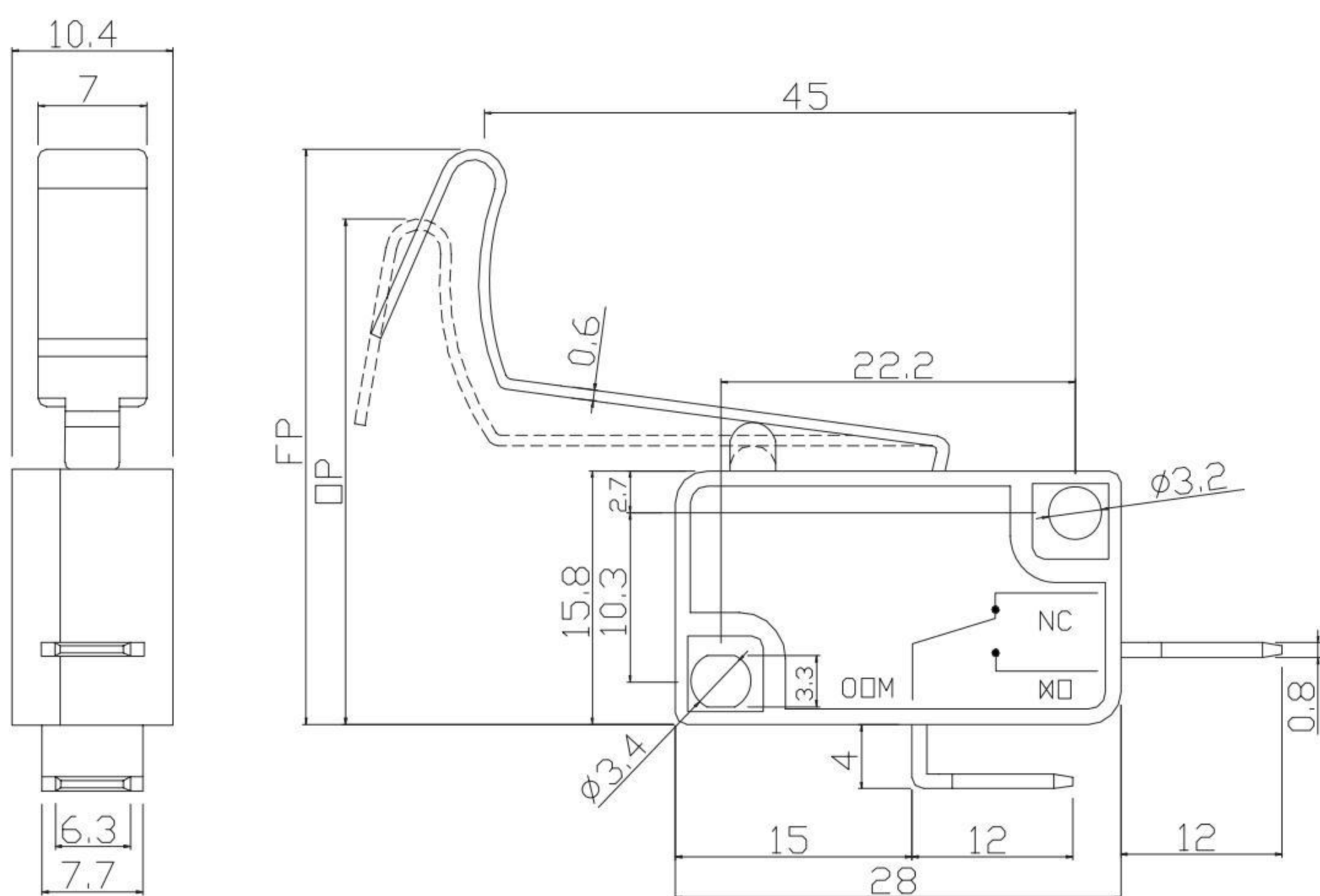
ETC7-KW3-OZ-A113013L7



Model	ETC7-KW3-OZ-A113013L7
OF (N)	0.3~4.5
MD Max(mm)	1.2
PT Max(mm)	25
OP Min(mm)	14.3



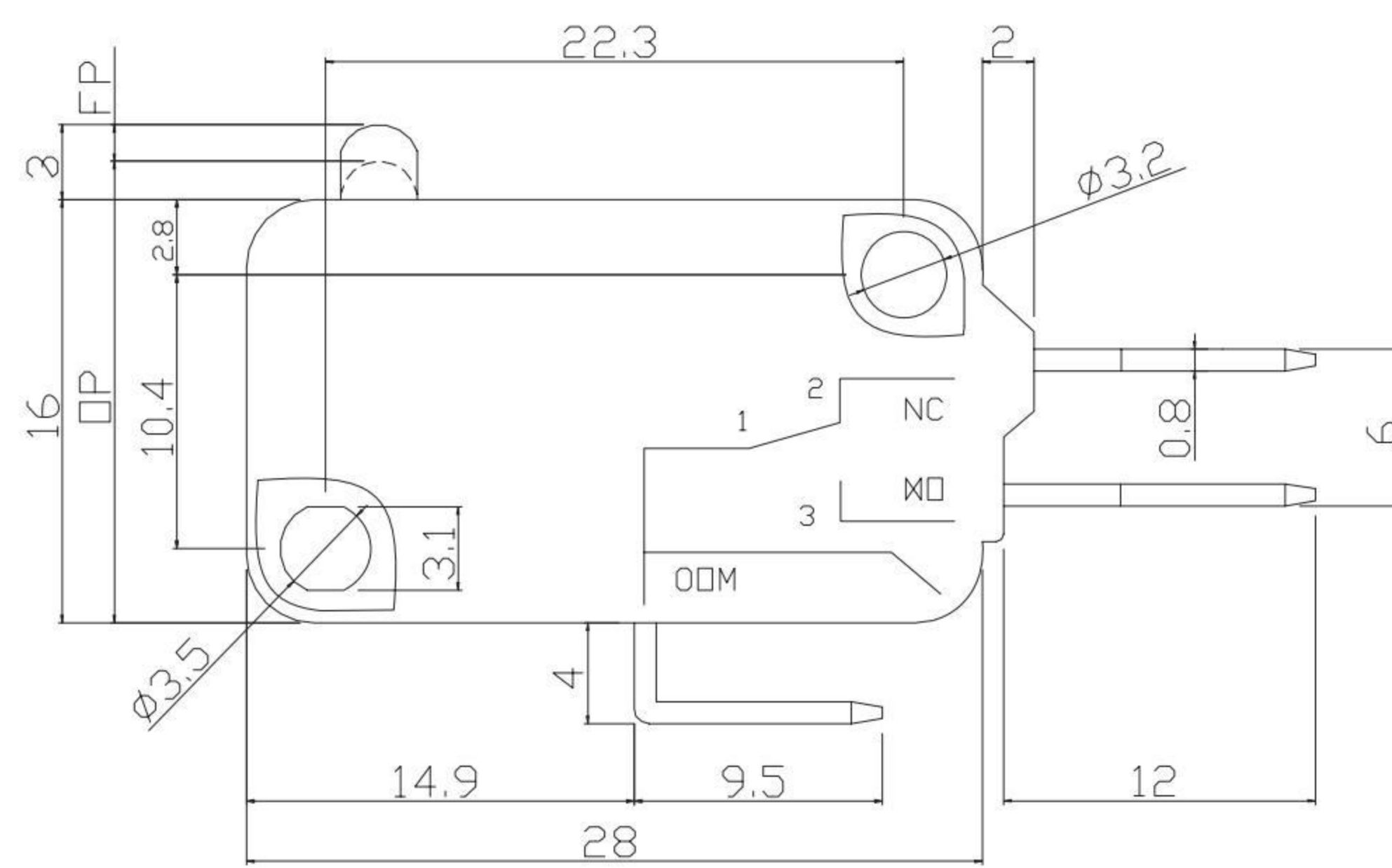
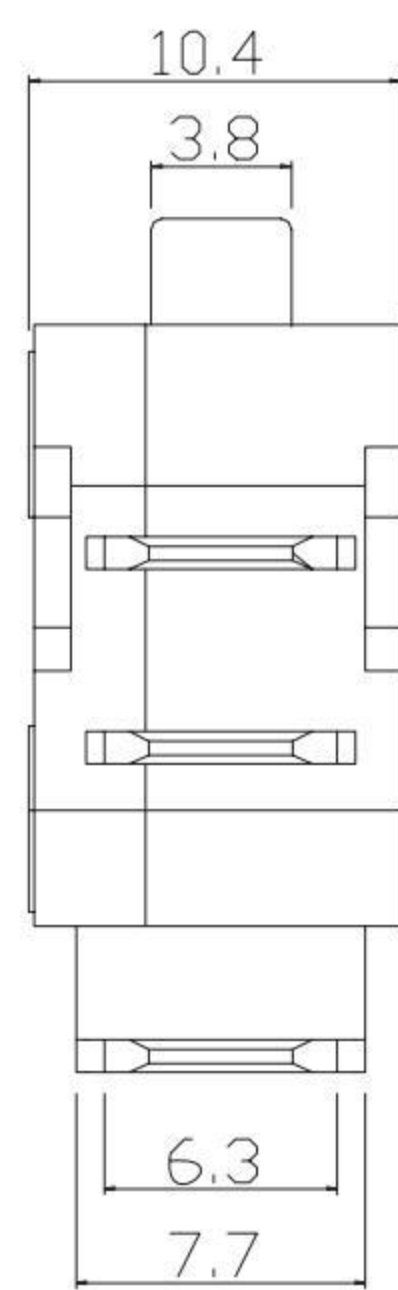
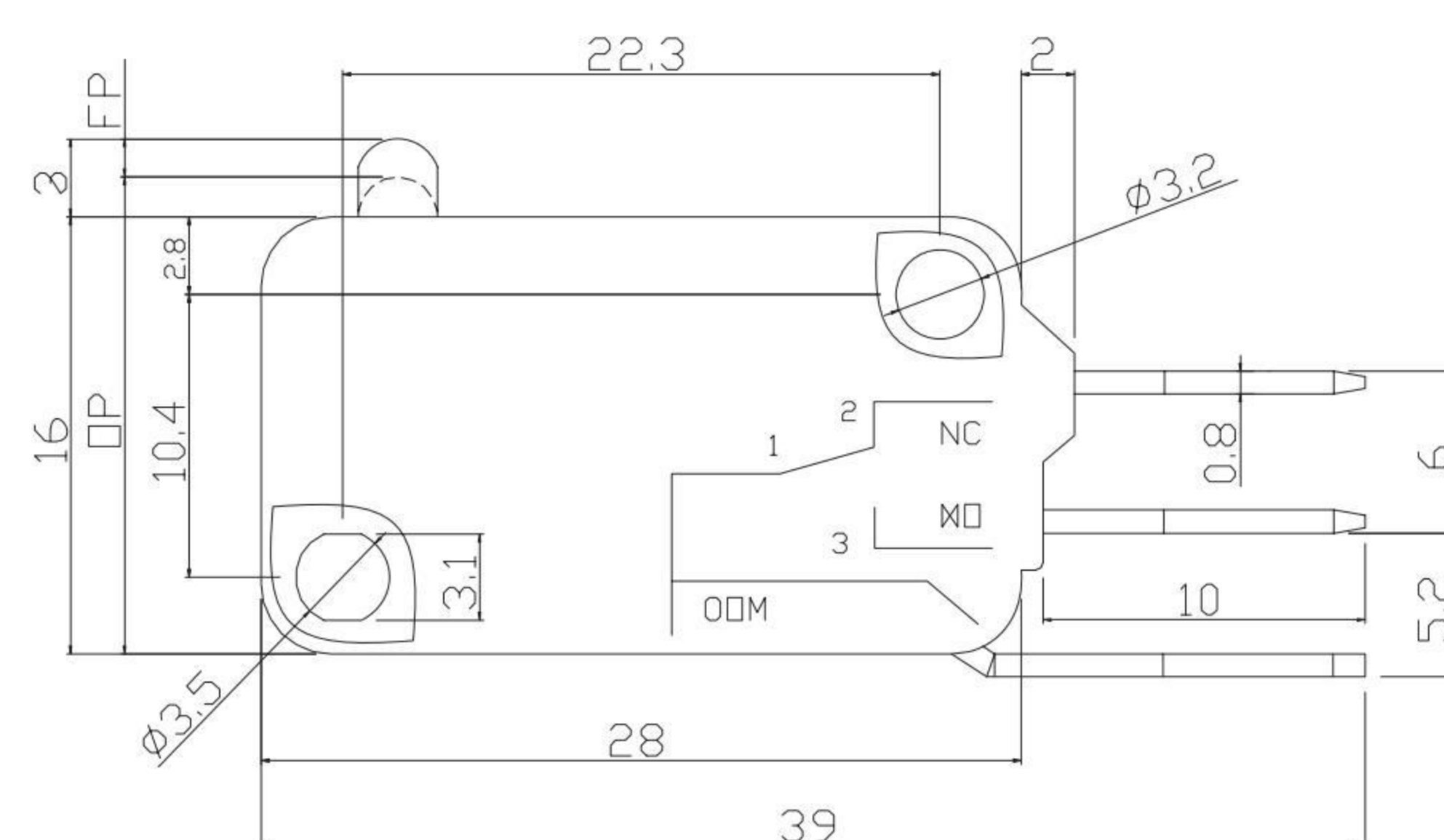
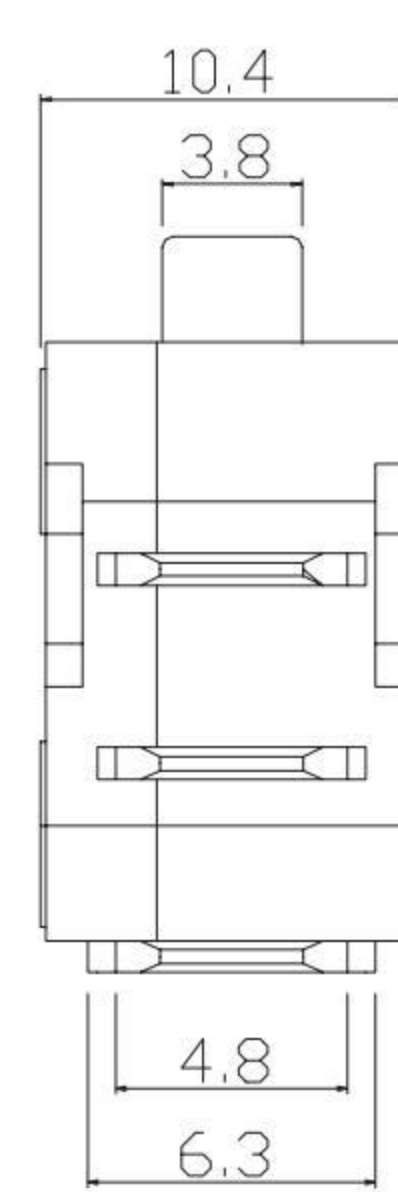
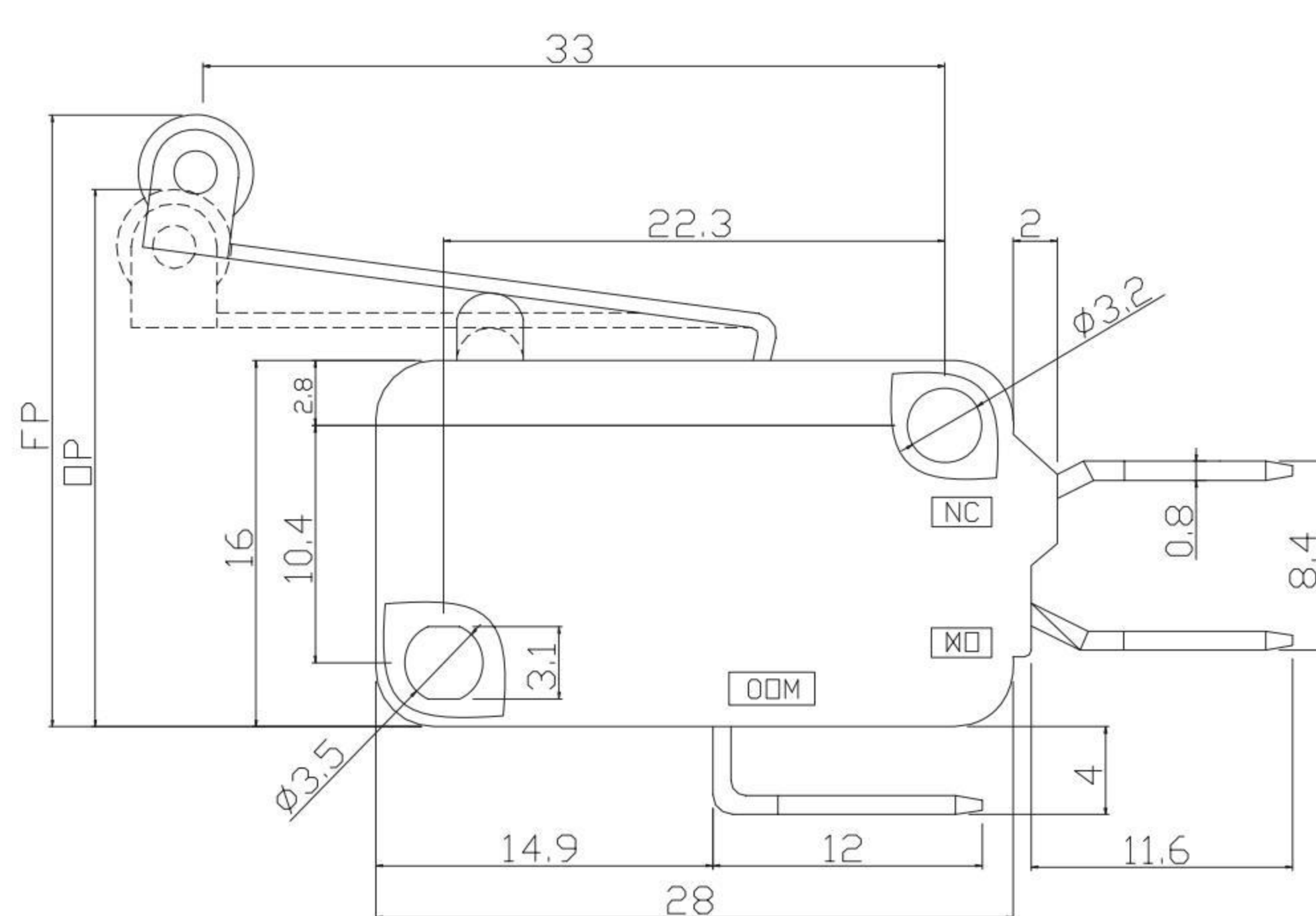
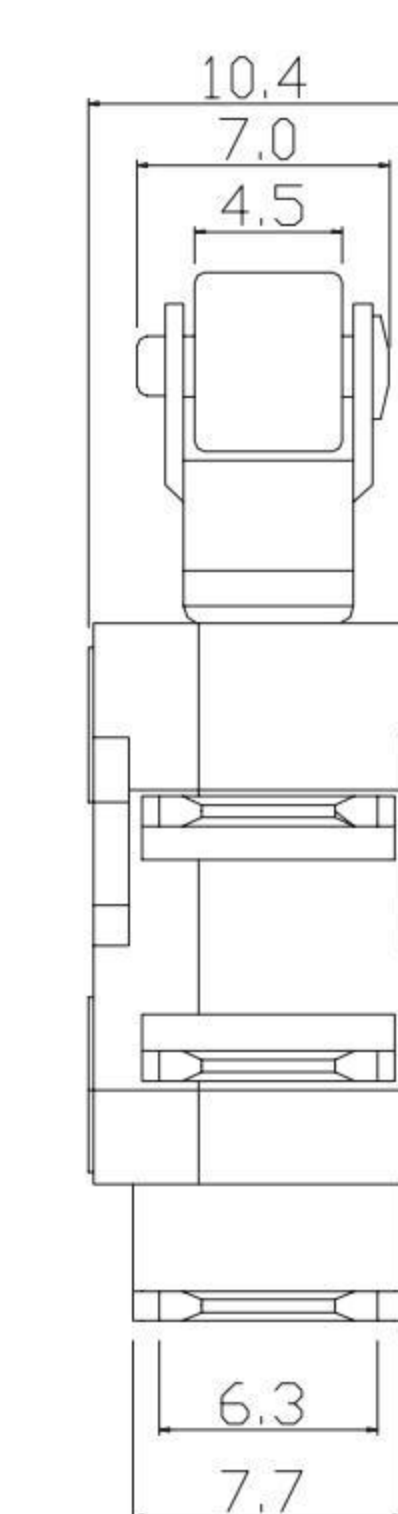
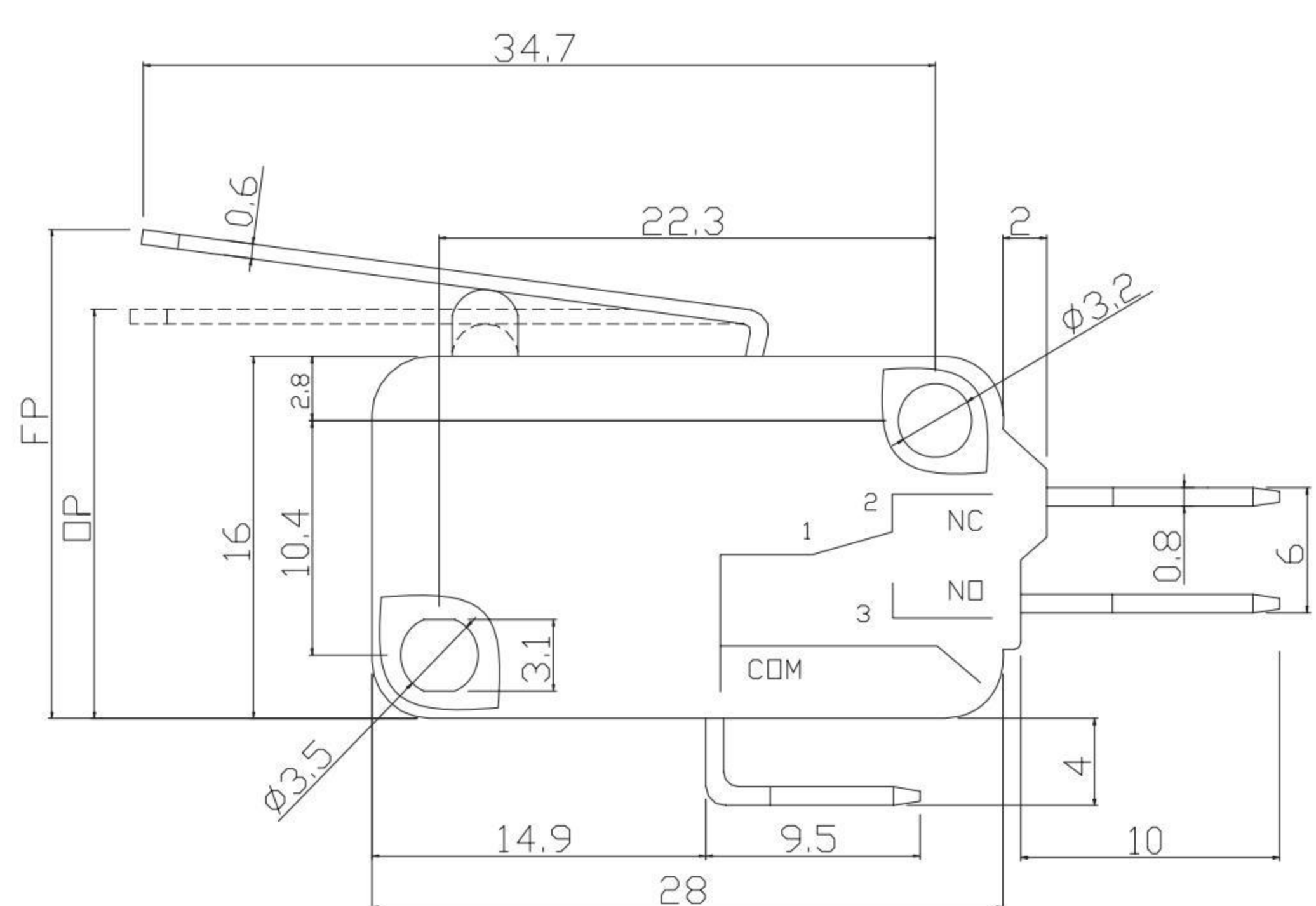
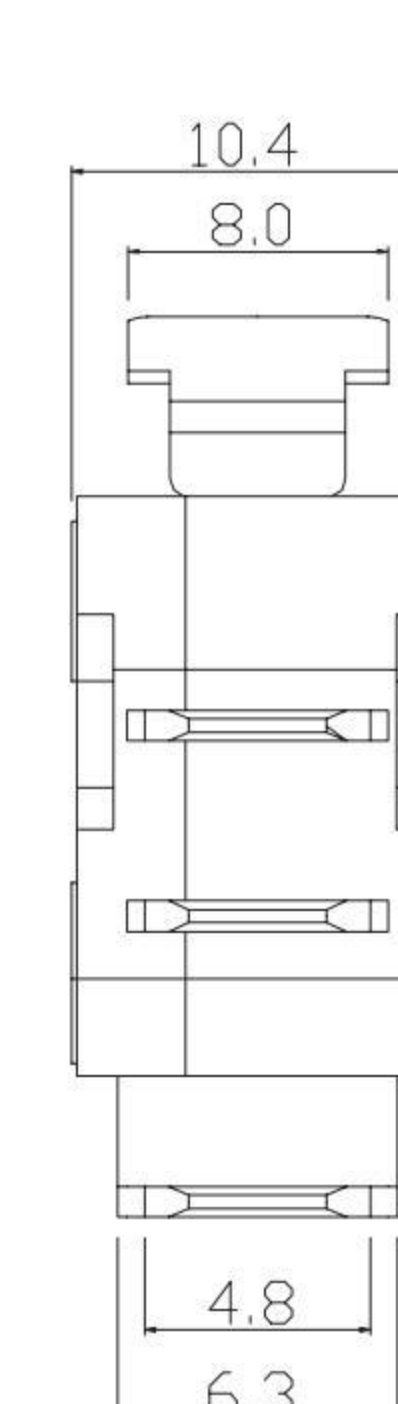
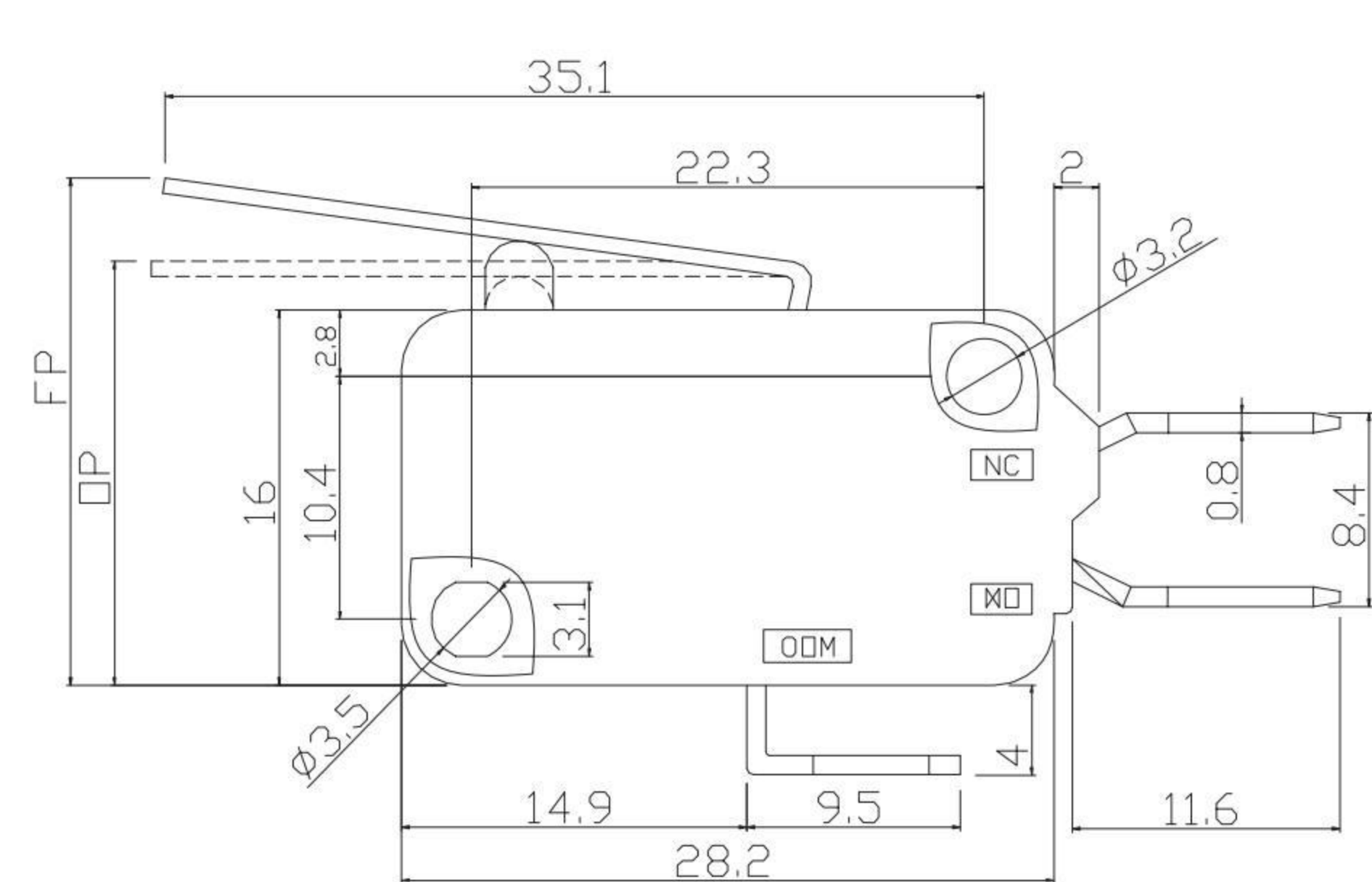
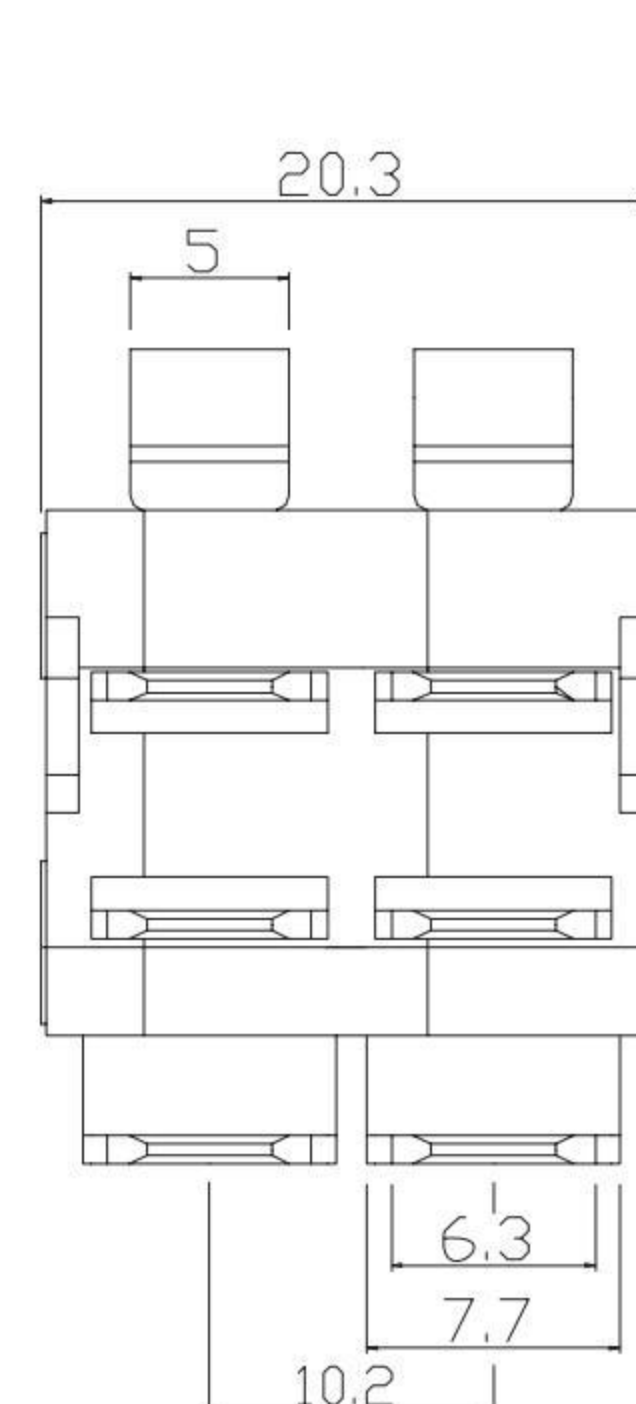
ETC7-KW3-OZ-A213013L12



Model	ETC7-KW3-OZ-A213013L12
OF (N)	0.3~4.5
MD Max(mm)	1.0
PT Max(mm)	44.6
OP Min(mm)	38.0

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ETC7-KW3-□Z-B133013LETC7-KW3-□Z-B123013LETC7-KW3-□Z-B113013L1ETC7-KW3-□Z-B123013L5ETC7-KW3-□Z-D113013L3

Switch

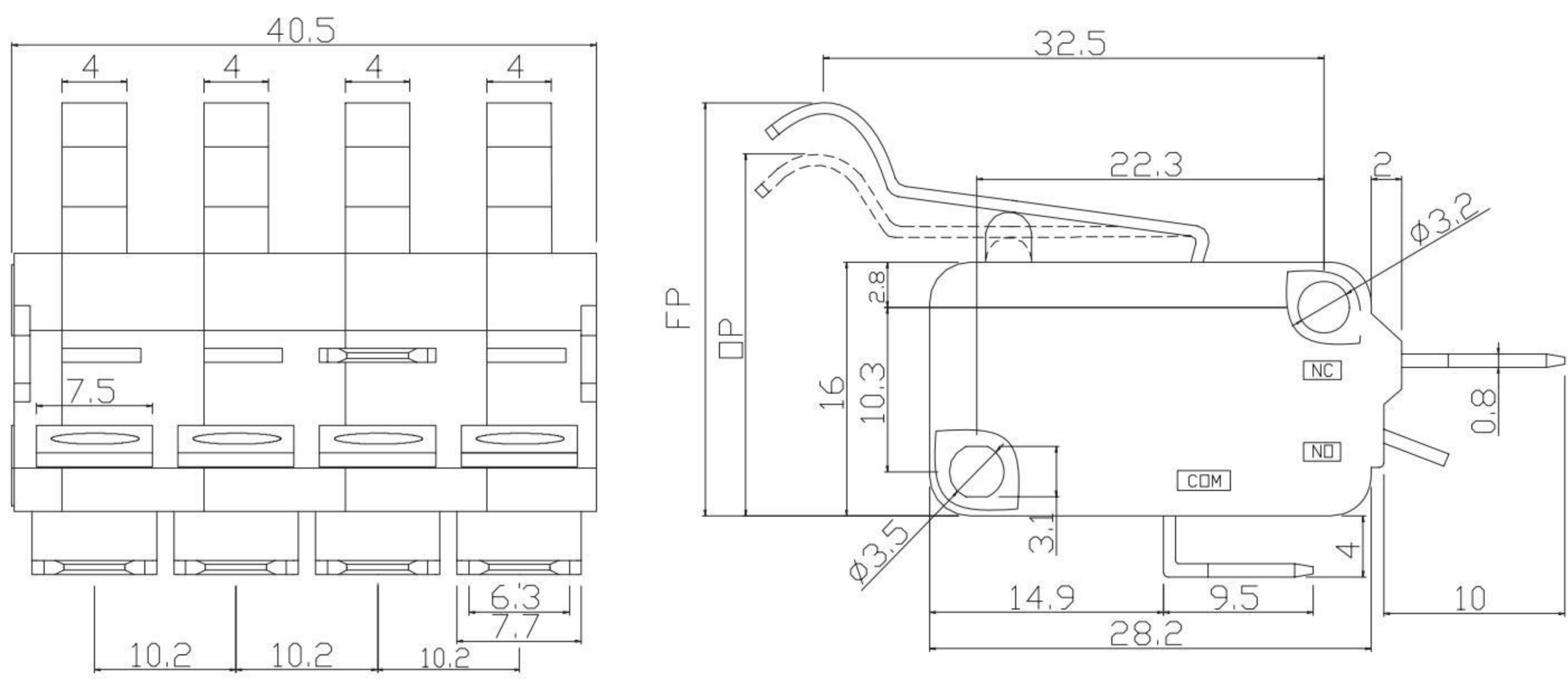
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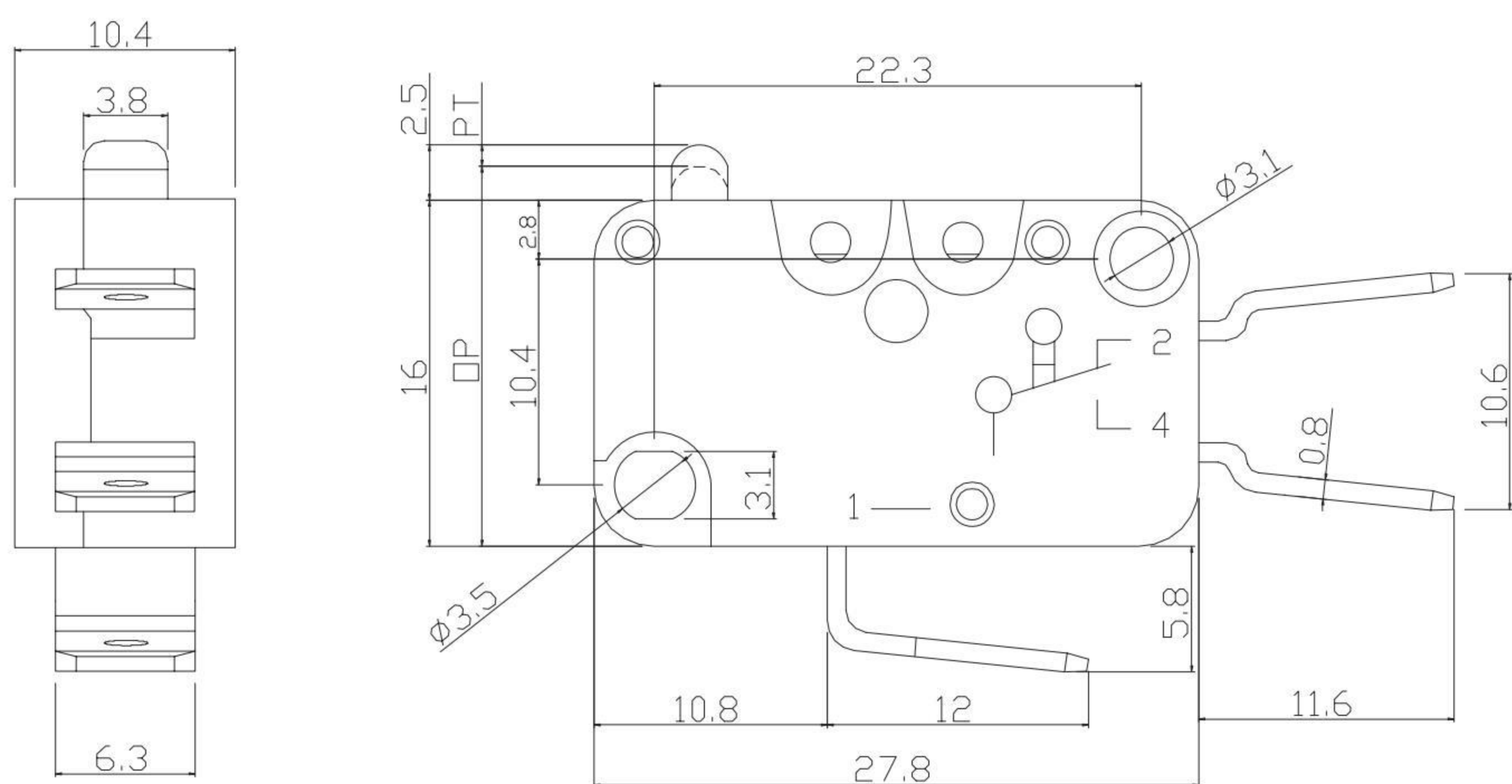
ETC7-KW3-OZ-D203013L2



Model	ETC7-KW3-OZ-D203013L2
DF (N)	0.3~4.5
MD Max(mm)	0.8
PT Max(mm)	24.5
OP Min(mm)	21.0



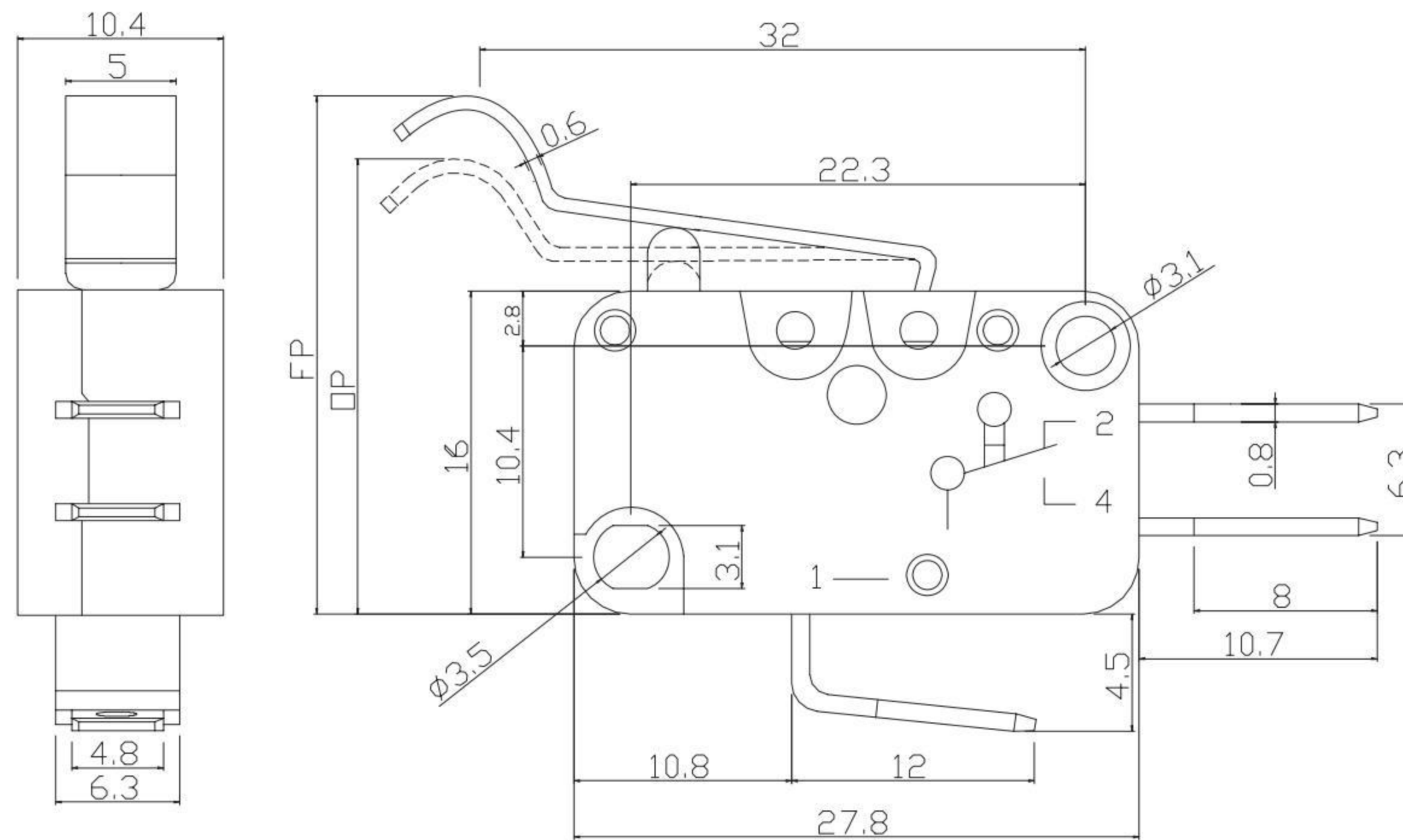
ETC7-KW3-OZ-C113233L



Model	ETC7-KW3-OZ-C113233L
DF (N)	0.3~4.5
MD Max(mm)	0.3
PT Max(mm)	2.0
OP Min(mm)	16.5



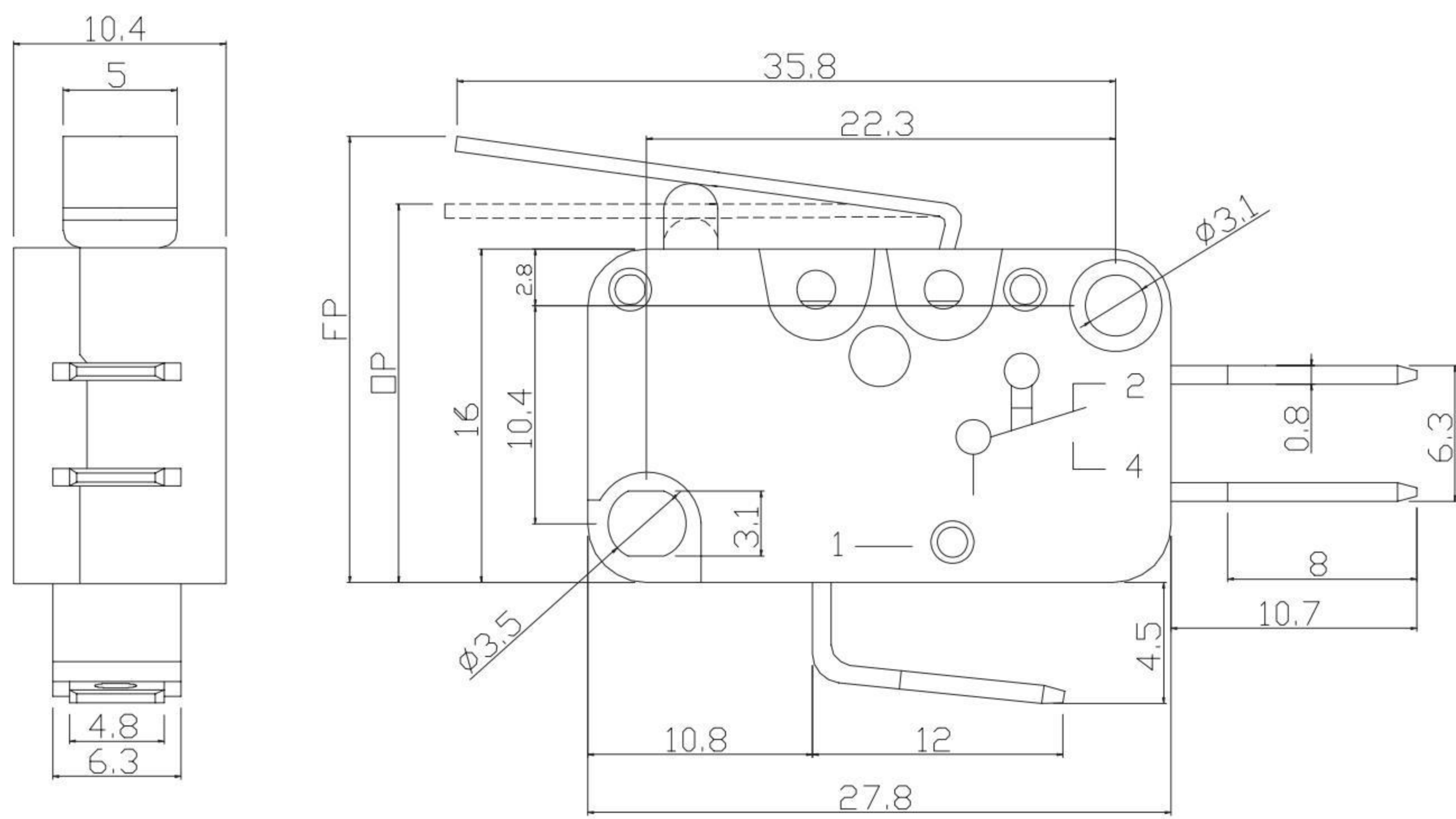
ETC7-KW3-OZ-C123233L2



Model	ETC7-KW3-OZ-C123233L2
DF (N)	0.3~4.5
MD Max(mm)	0.8
PT Max(mm)	24.2
OP Min(mm)	20.0



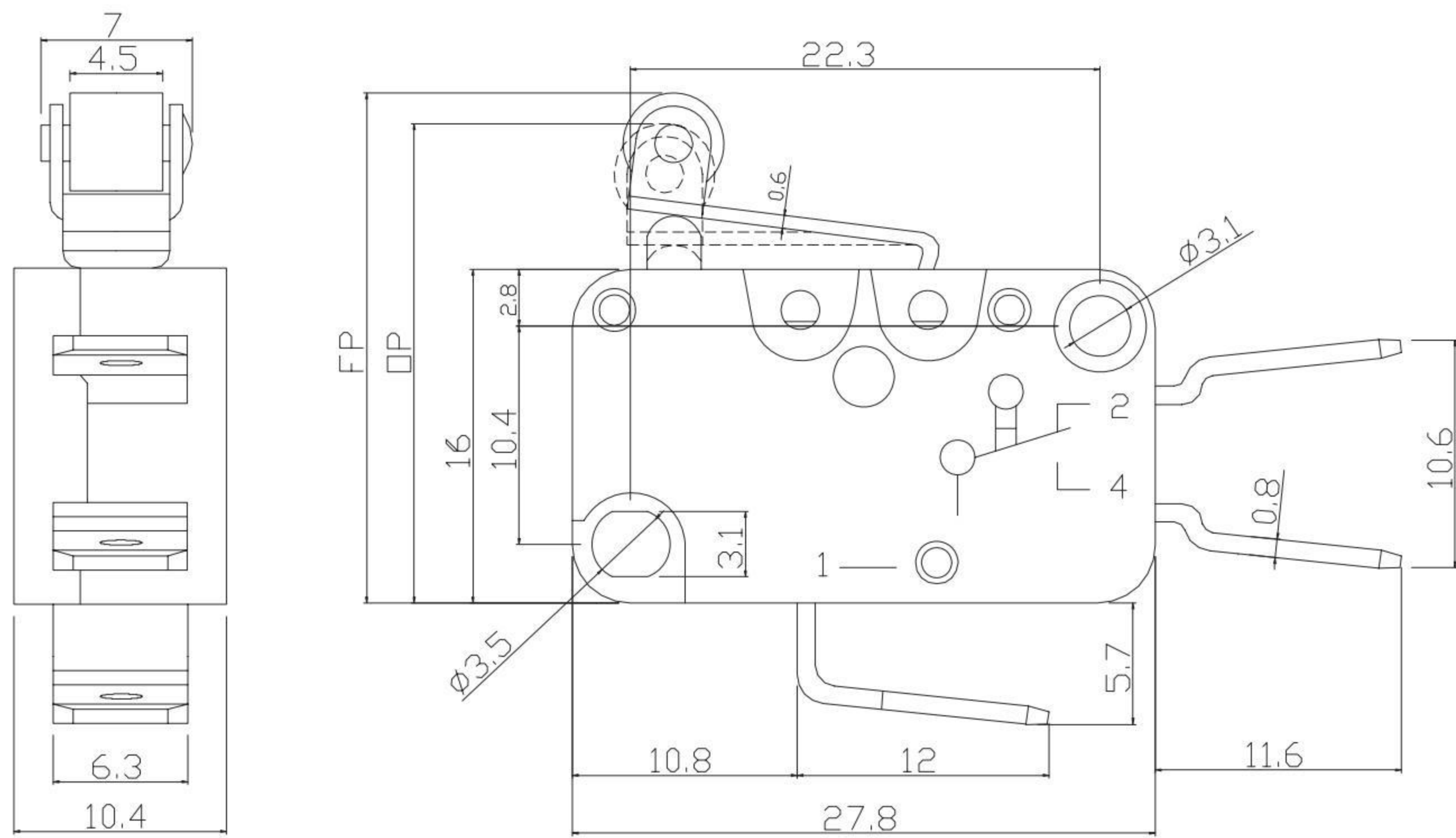
ETC7-KW3-OZ-C123233L3



Model	ETC7-KW3-OZ-C123233L3
DF (N)	0.3~4.5
MD Max(mm)	0.5
PT Max(mm)	20.0
OP Min(mm)	16.0



ETC7-KW3-OZ-C113233L6

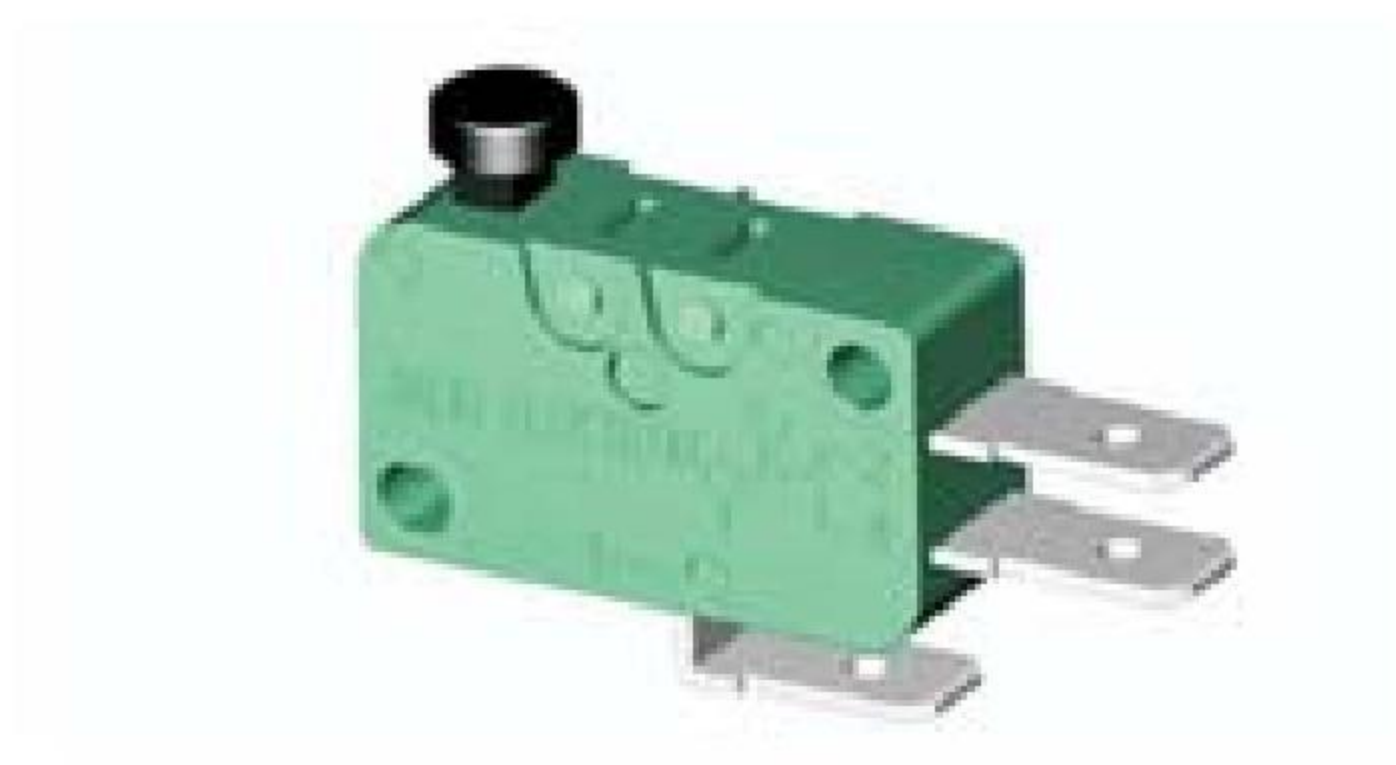


Model	ETC7-KW3-OZ-C113233L6
DF (N)	0.3~4.5
MD Max(mm)	0.4
PT Max(mm)	24.5
OP Min(mm)	22.5

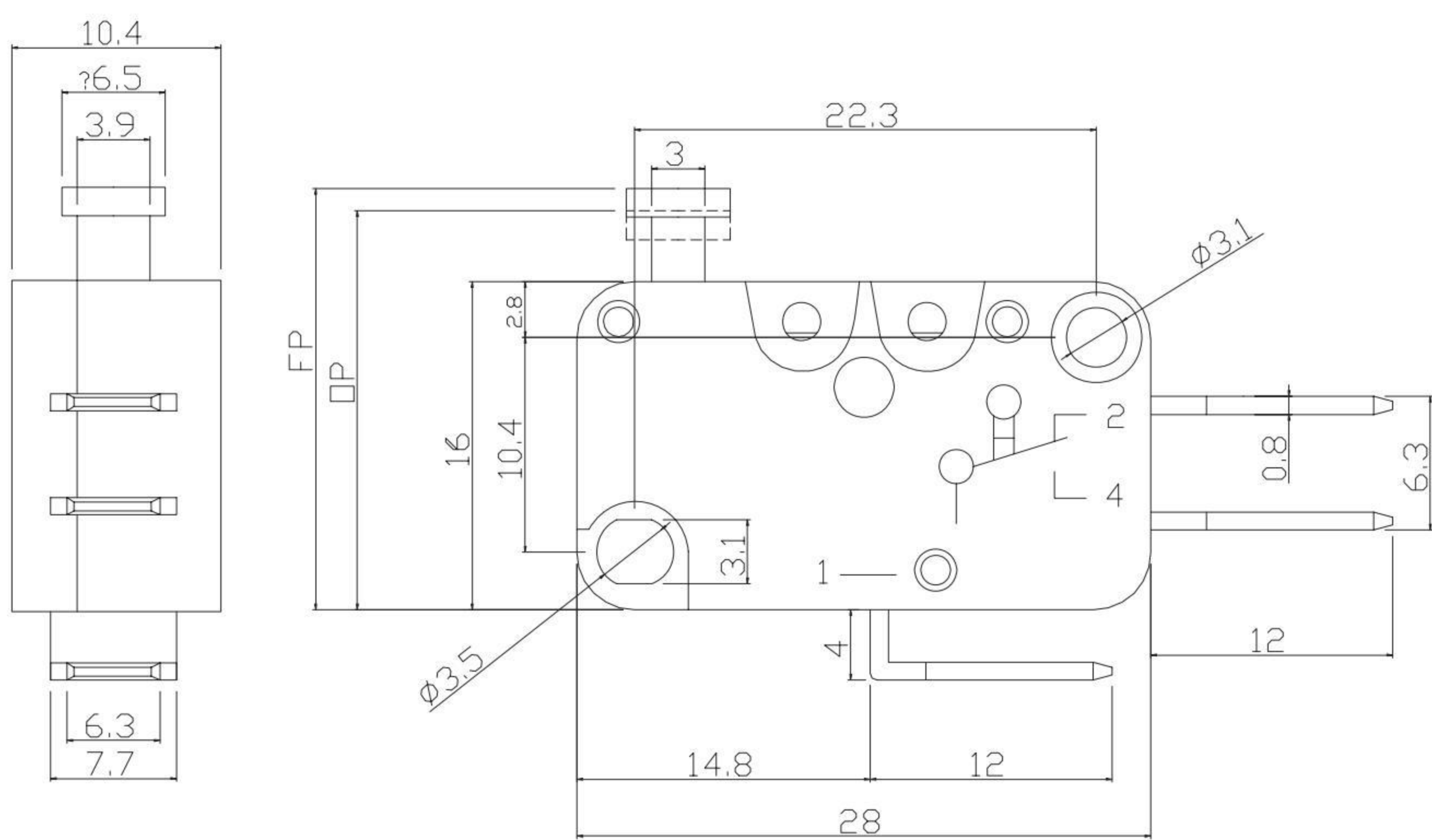
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ETC7-KW3-□Z-C115033L



Model	ETC7-KW3-□Z-C115033L
□F (N)	0.3~4.5
MD Max(mm)	0.3
PT Max(mm)	20.2
□P Min(mm)	18.5