Model

ALM501B

Feature

- L-type linear actuator
- Compact mechanical system
- Protect class IP65
- Built-in limit switches
- Imported HALL sensors (options)
- CE certificated
- Widely work in the harsh environment

Basic Spec.

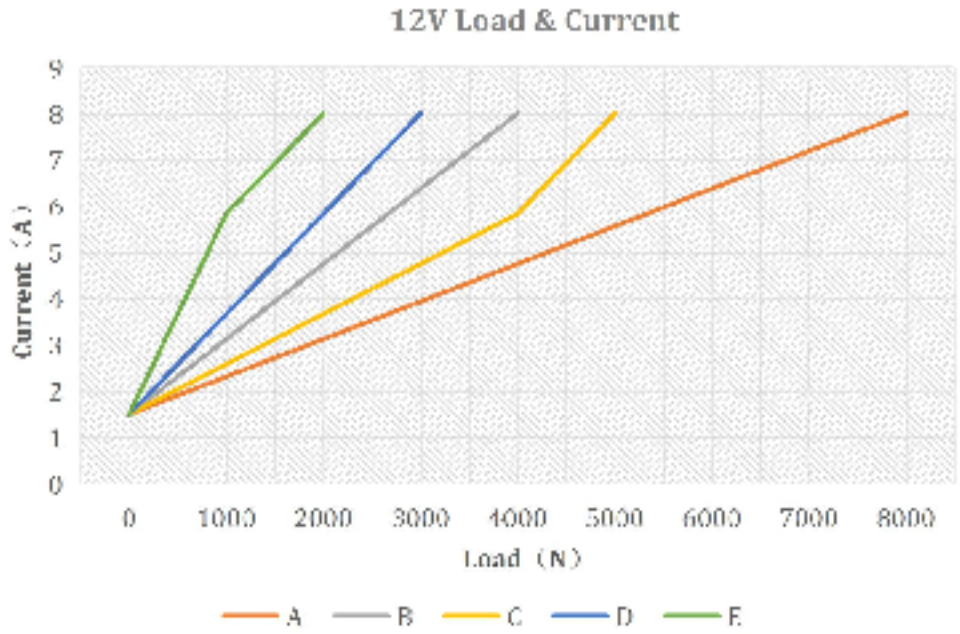
Housing color	☐Silver	☐Black	☐Customize colors	
Screw type	☐T-screw			
Control	☐control box	☐control system + manual		
Application	☐Industrial	☐Furniture	☐Medical	
Work environment	☐0~40℃	☐-20~65℃	☐-40~65℃	
Noise level	☐≤50dB			
Stroke	☐50-600mm	☐Customize stroke		
Load	☐≤1200N	☐≤2000N	☐≤2500N	☐≤8000N
Duty cycle	☐10%	☐20%		
Motor type	☐Brushed DC motor			
IP rating	☐No	☐IP65		
Signal output	☐No	☐Switch signal	☐Hall sensors	☐Magnetic switch
Input voltage	☐12V	☐24V	☐36V	☐48V
Cable length	☐1m	☐2m	☐Customize length	

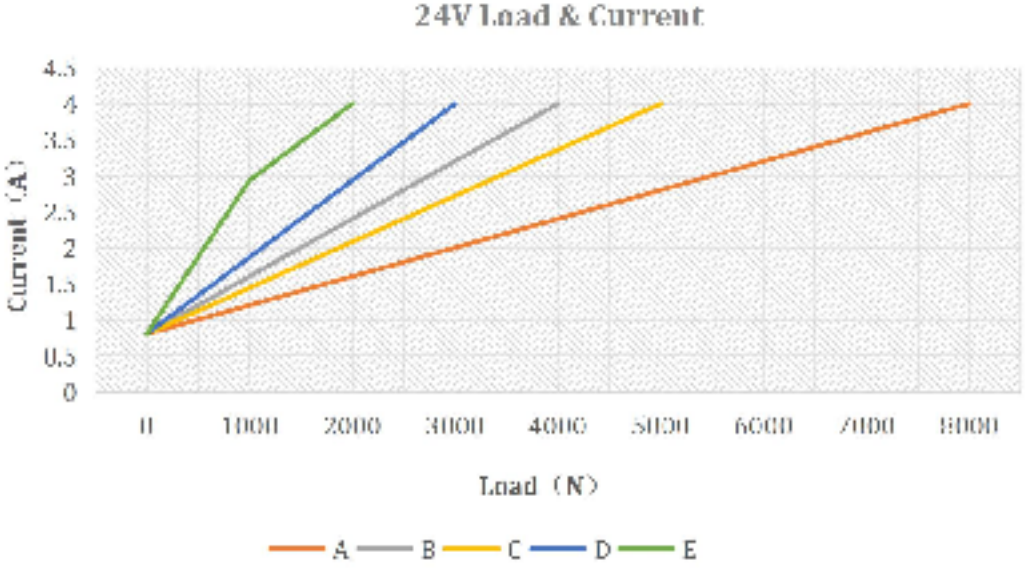
Technical info

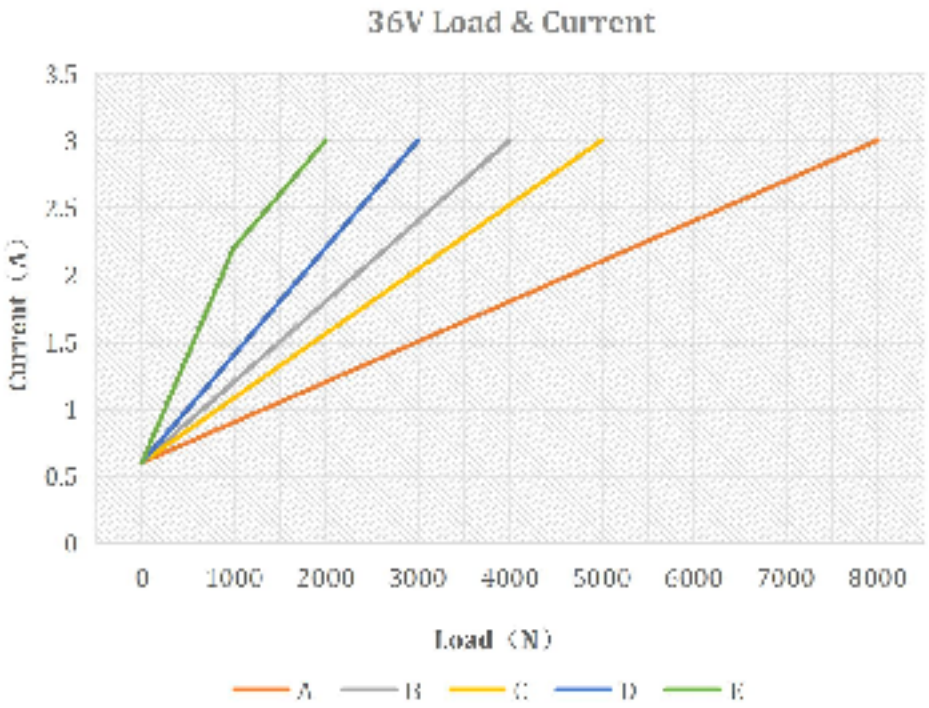
Code	Screw pitch	No-load speed (mm/s)	Full-load (mm/s)	Max load (N)	Max.Self-locking (N)	No-load current (A)				Full-load current (A)			
						12V	24V	36V	48V	12V	24V	36V	48V
A	4	4.6	2.8	8000	8000	1.5	0.7	0.6	0.4	8	4	3	2
B		9.2	6.5	4000	5000	1.5	0.7	0.6	0.4	8	4	3	2
C	5	6	3.5	5000	6000	1.5	0.7	0.6	0.4	8	4	3	2
D		11	7	2500	3000	1.5	0.7	0.6	0.4	8	4	3	2
E	7.5	17	11.5	1500	1500	1.5	0.8	0.6	0.4	8	4	3	2

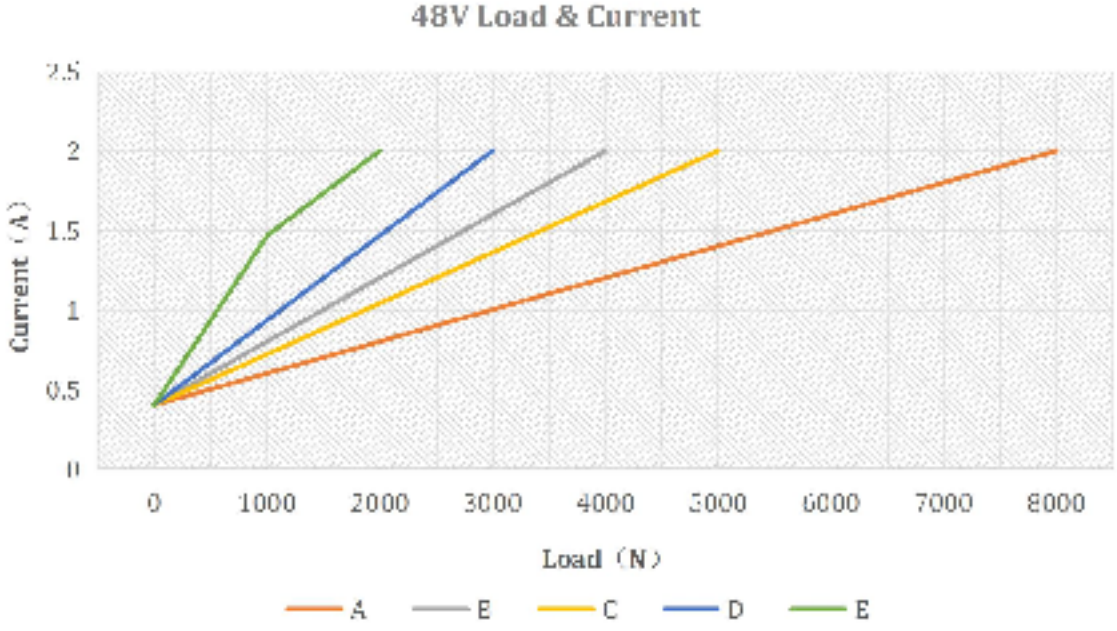
Load & Current

(The letter corresponds to the transmission code in the selection parameter table)






36V Load & Current
Current（A）
3.5
3
2.5
2
1.5
1
0.5
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Load（N）
A
B
C
D
E


48V Load & Current
Current（A）
2.5
2
1.5
1
0.5
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Load（N）
A
B
C
D
E

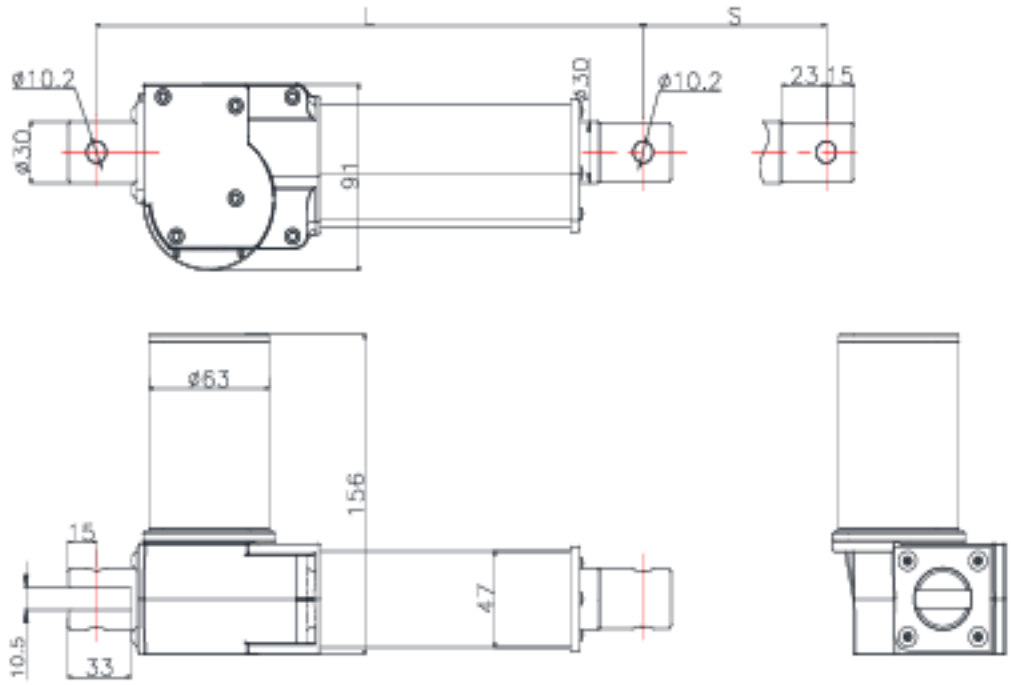
Mounting length

Dimension

S: Stroke, the travel length of actuator

L: Length, the fully retracted length of actuator from front hole centre to rear hole centre

Standard type

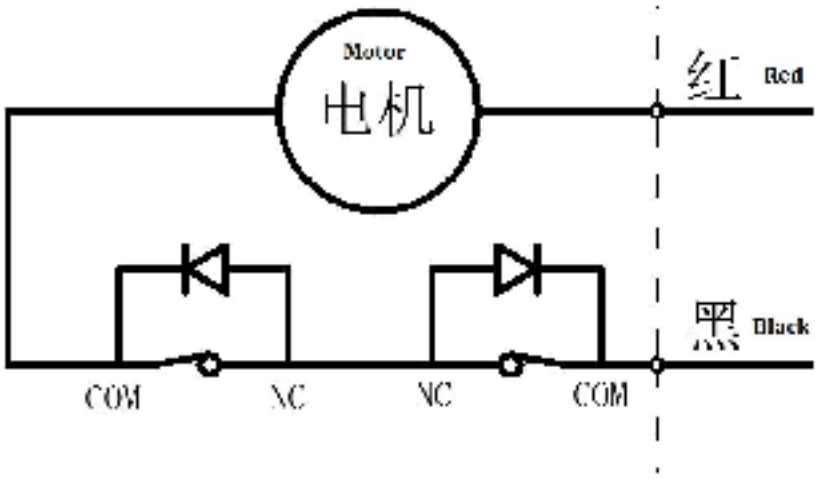


Stroke & Mounting length

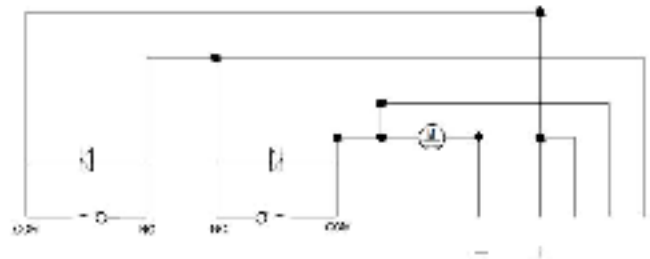
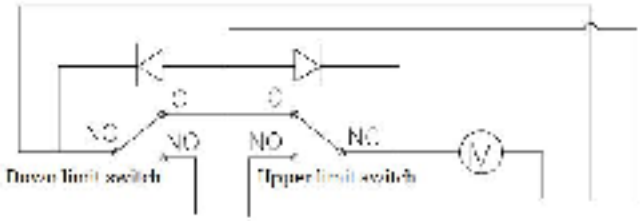
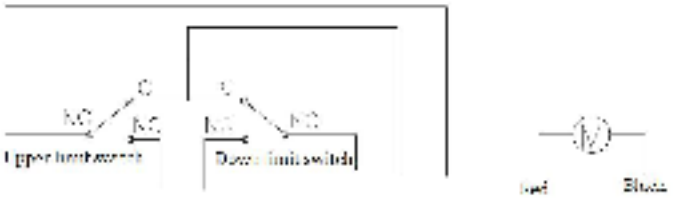
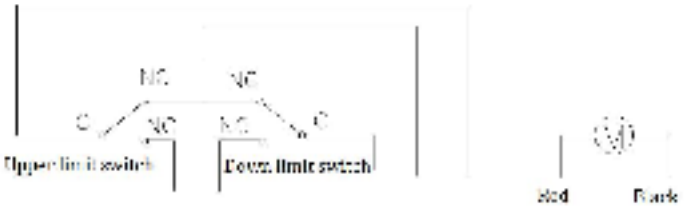
S(mm)	Retracted L(mm)	Extended A(mm)	Simulate
50	230	280	50≤ Stroke≤400, L=S+180; A=L+S(A=S*2+180)
100	280	380	
150	330	480	
200	380	580	
250	430	680	
300	480	780	
350	550	900	400< Stroke≤600, L=S+200; A=L+S(A=S*2+200)
400	600	1000	
450	680	1130	400< Stroke≤600, L=S+230; A=L+S(A=S*2+230)
500	730	1230	
550	780	1330	
600	830	1430	

Signal output

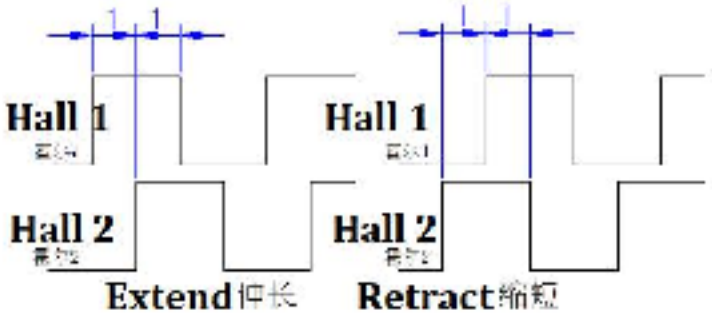
Standard limit switch diagram



Limit switch signal output

Closed □	Open □
	
C □	**NC □**
	

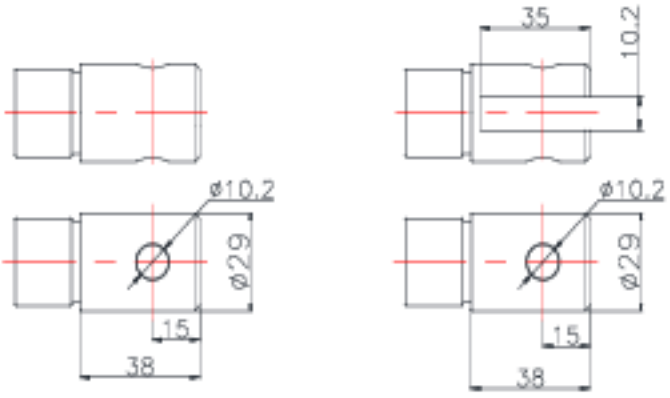
Hall sensor signal

Hall sensors built-in motor				
Code	Signal feedback	Magnetic pole	Resolution (1 pair of pole) Pulse/mm	Resolution (4 pairs of poles) Pulse/mm
A	Hall sensors	1 pair of pole or 4 pairs of poles	10 pulse/mm	40 pulse/mm
B			5 pulse/mm	20 pulse/mm
C			8 pulse/mm	32 pulse/mm
D			4 pulse/mm	16 pulse/mm
E			2.667 pulse/mm	10.667 pulse/mm
F			1.667 pulse/mm	6.667 pulse/mm
Phase difference				
Phase difference 90°				

Notice: Hall sensor power supply 3.3V-24V, recommend to use 5V or 12V

Attachment options

Front



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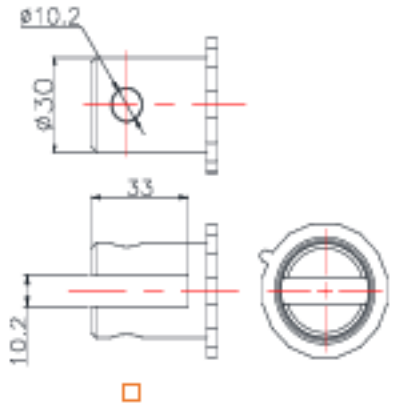
Rear



**The attachment can customize as per customer's requirements.*

Main products

Model	Load (N)	Stroke (mm)	Speed (mm/s)	IP rating	Application
ALM501B	8000	50-600mm	5-17mm/s	IP65	Medical, furniture,industrial
ALM601	1200	50-600mm	3.5-80mm/s	IP65	Industrial
ALM602	2000	50-600mm	3.5-55mm/s	IP65	Industrial
ALM603	2500	50-600mm	5-15mm/s	IP65	Medical, furniture, industrial
ALM606	8000	50-900mm	5-50mm/s	IP65	Industrial
ALM606A	7000	50-600mm	5-50mm/s	IP65	Industrial
ALM607	5000	50-600mm	5-50mm/s	IP65	Industrial
ALM608	12000	50-1000mm	6.5-38mm/s	IP66	Industrial