JC35L31 Linear Actuator

1. JC35L31 is a compact and powerful actuator.
2. JC35L31 was designed especially for adjustment systems in recliners and comfort beds. Due to its compact size and design, linear actuator JC35L31 is fitting in perfectly where space is limited.



Features And Options

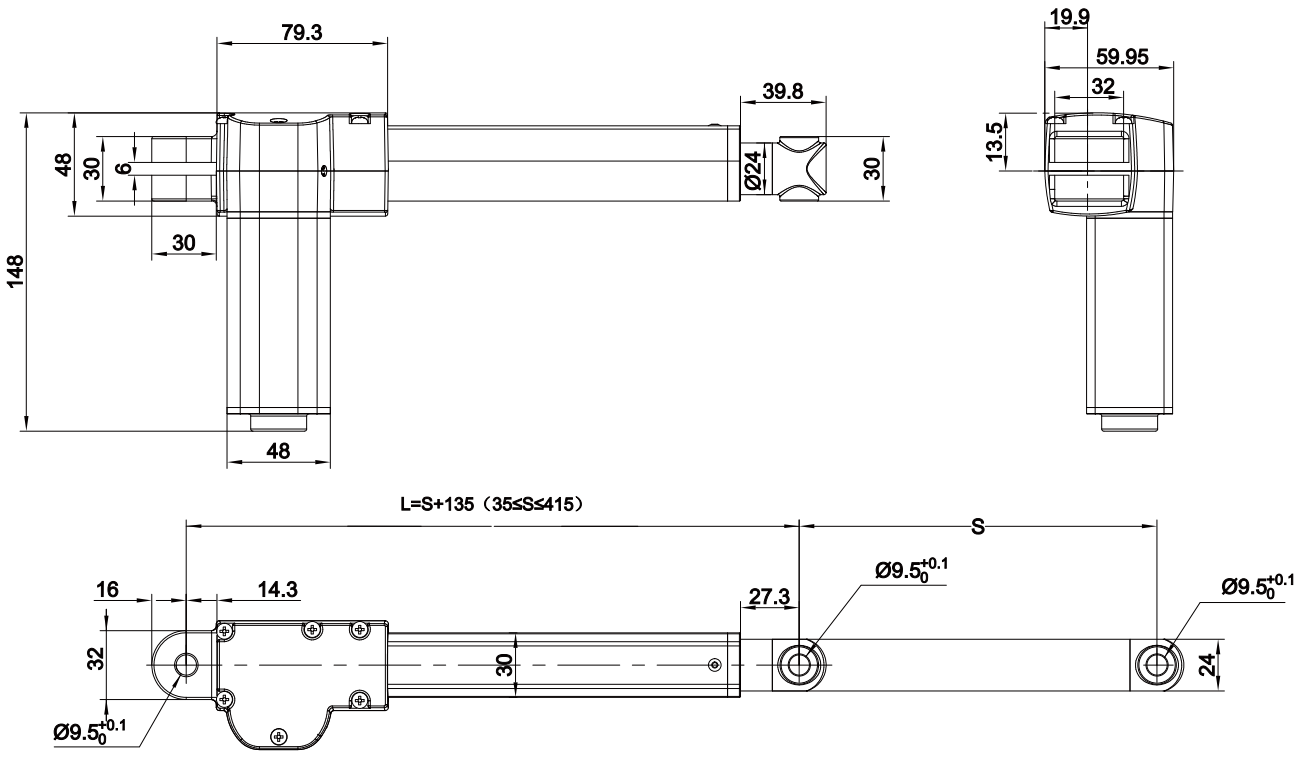
Dynamic Load Push(N):	4500 | 4000 | 2500
Dynamic Load pull (N):	2000
Colour:	Black
Protection Class:	IP20
Stroke Length:	4500N: 35-200mm 4000N: 35-155mm 2500N: 35-415mm
Installation Dimension:	4500N: L=S+135(35＜S≤200) 4000N: Maximum installation dimension L=355mm 2500N: L=S+135(35＜S≤415) When Stroke ≥ 200mm, mechanical end stop is necessary and it can only be used in the occasion of straight up and down.
Noise Level:	No-load ≤ 48dB, under load ≤ 50 (environmental noise ≤ 40dB)
Optional:	Hall sensor,Only push
Limit Switch:	Built-in (electronic)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)
Static Bending Moment:	Lateral load are not allowed
Approval:	ANSI/UL962-2020

Usage

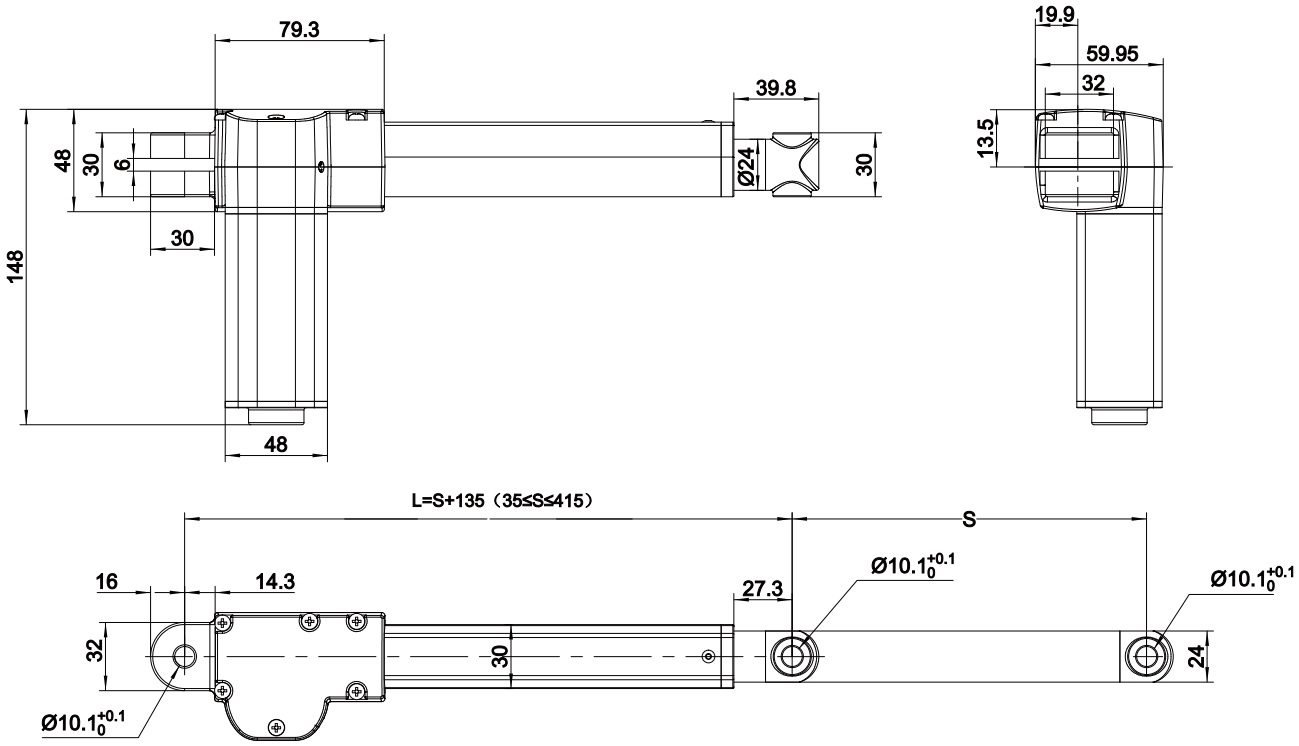
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

Front clevis F41, end clevis B27



Front clevis F86, end clevis B48

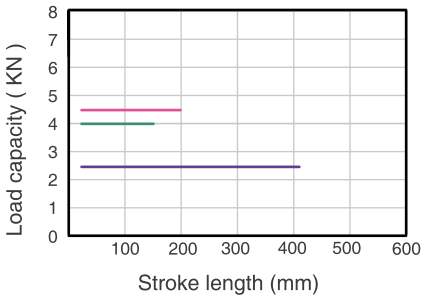


Technical Specifications (Standard Value)

Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Speed at no load/full load (mm/s)	Current at full load (A)
24	3	4500	2000	4500	6.4/4	≤5.0
29	3	4500	2000	4500	7.7/5	≤5.0
29	4	2500	2000	2500	10/8	≤3.5
29	4	4000	2000	3500	8.5/5.5	≤5.0

Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Diagram of relationship between stroke length and load

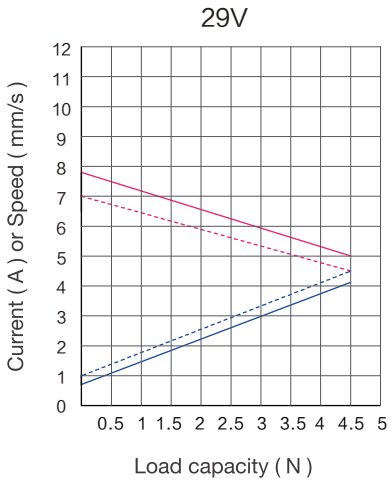


· Stroke 194mm/Load 0.5KN
· Stroke 252mm/Load 0.8KN

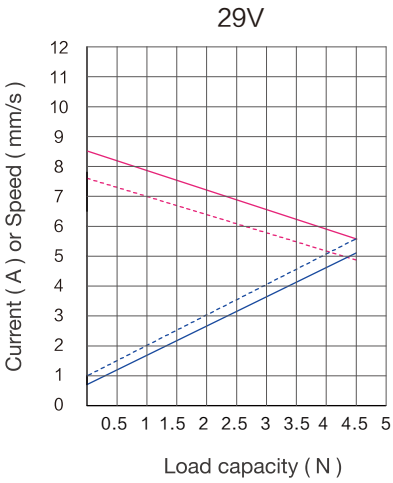
Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

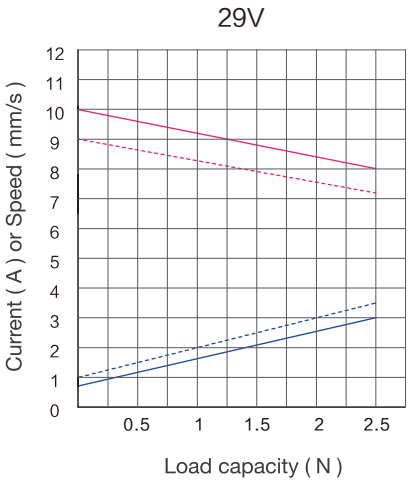
4500N



4000N



2500N



Ordering Key

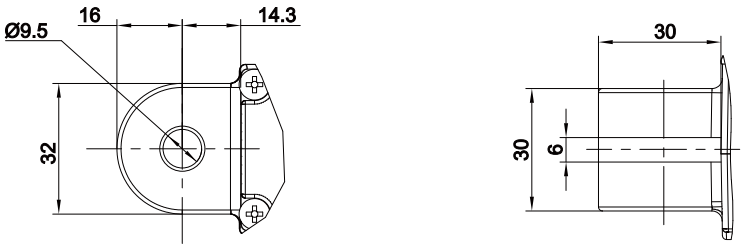
Take **JC35L31PY4D5424150/285HBB27SF410211D0** as an example

Model	**JC35L31**	
Optional features	**X**	0 = Standard / P = Only push / Y= Hall sensor PY=Only push + Hall sensor
Load in push	**X**	4D5=4500N / 4=4000N / 2D5=2500N
Speed at full load	**X**	4=4mm/s 5=5mm/s 5D5=5.5mm/s 8=8mm/s
Input voltage	**XX**	24=24VDC / 29=29VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H=horizontal (to motor direction)
Colour	**X**	B=Black
End clevis specification	**XX**	B27=slot 6, slot depth 30, and the hole diameter isφ9.5 B48=slot 6, slot depth 30, and the hole diameter isφ10.1
End clevis material	**X**	S= Plastic end clevis
Front clevis specification	**XX**	F41= without slot, hole ϕ9.5 F86= without slot, hole ϕ10.1
Brake specification	**X**	0=Standard
Type of connector and cable	**XX**	02= 4 Pin Din connector 21= 6 Pin Mini-Fit connector
Cable length	**XXX**	1D0 = 1m / 0D8 = 0.8m

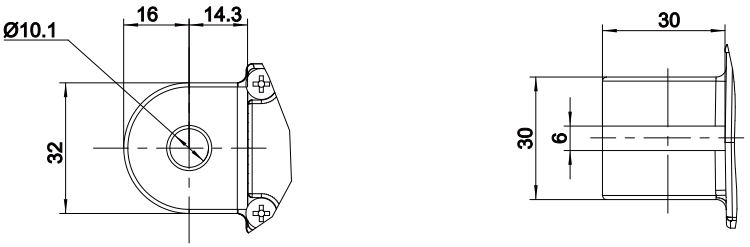
Ordering Details

Dimensions of clevis

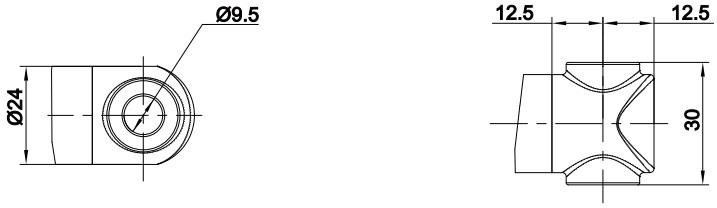
End clevis: B27



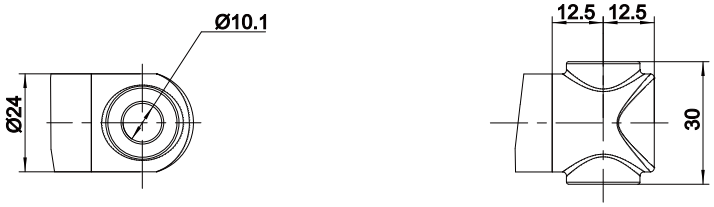
End clevis: B48



Front clevis: F41



Front clevis: F86



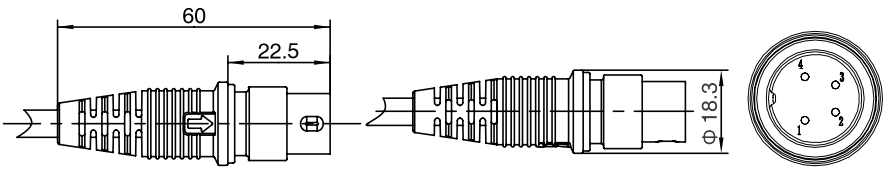
Motor cable

4 Pin Din connector (standard)

Supporting control box:
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S/
J CB35K2

Pin	Colour	Function
1	NC	Not connected
2	Brown	When positive voltage power on,actuator will go down
3	Blue	When positive voltage power on,actuator will go up
4	NC	Not connected
Outer ring	NC	Not connected



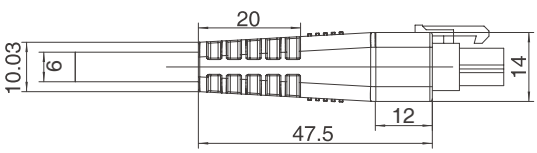


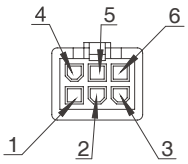
6 Pin Mini-Fit connector

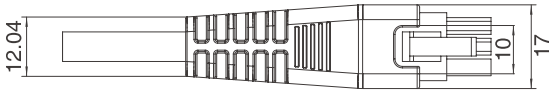
Supporting control box :
JCB35N / JCB35H

Pin	Colour	Function
1	Orange	Hall sensor 2
2	Black	GND
3	Red	5V
4	Brown	When positive voltage powered on, actuator goes down
5	Blue	When positive voltage powered on, actuator goes up
6	Yellow	Hall sensor 1









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Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.

Communication protocol development

Aiming at different applications, develop more extensive functions for control system.

Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities

Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices

Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

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Notes for mounting and usage can be found in the corresponding mounting manual