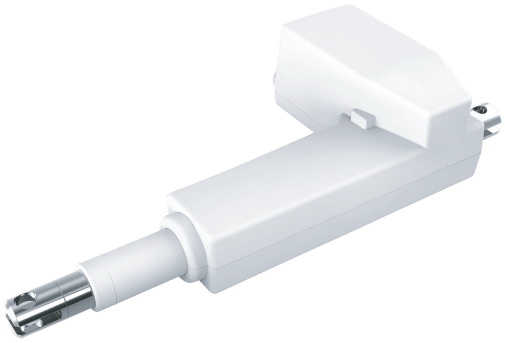
JIECANG

JC35B7 Linear Actuator

JC35B7 is characterized by low noise and high load capacity. It has following specifications: JC35B7-6000N(push), JC35B7-4000N(push), JC35B7-3000N(push), JC35B7-2000N(push), JC35B7-1000N(push), JC35B7-4000N(pull).
It is widely used in nursing bed, operating bed, medical bed and other fields.



Features And Options

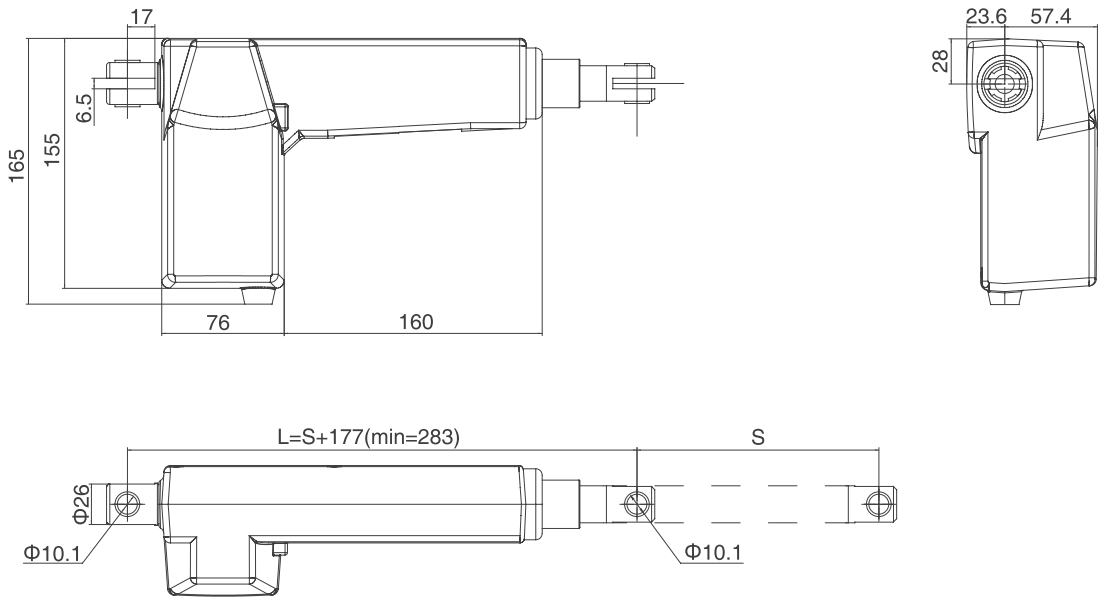
Dynamic load push(N):	6000 | 4000 | 3000 | 2000 | 1000
Dynamic load pull (N):	4000
Colour:	Gray / black
IP Grade:	IPX4
Stroke Length:	6000N: 50-250mm 4000N: 50-400mm 3000N: 50-400mm 2000N: 50-400mm 1000N: 50-400mm
Installation Dimensions:	L = 283(50≤S≤100) L = S+177(100<S<400)
Noise Level:	≤46dB, (environmental noise≤38dB)
Optional:	Safety nut, Hall sensor, Reed switch, Only push no pull
Limit Switch:	Built-in (electrical)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)
Static bending moment:	lateral load is not allowed
Approval:	IEC60601-1: 2012 EN 60601-1: 2006+A12: 2014 ANSI/AAMI ES60601-1: 2005/(R)2012 and A1: 2012 C1: 2009/(R)2012 and A2: 2010/(R)2012

Usage

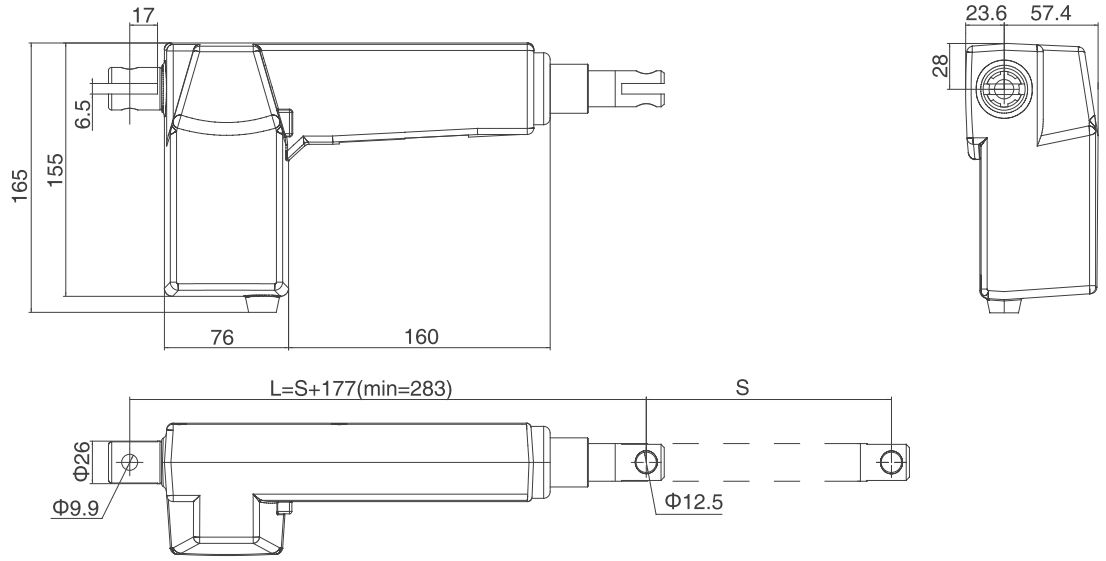
Duty Cycle:	10%, max. 2min.continuous working and 18 min.off
Operating Temperature:	+5℃ to +40℃
Reserve Temperature:	-10℃ to 50℃
Supporting Control Box:	match with JIECANG control box
Relative Humidity:	Under30℃, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimension Drawing

Top clevis F25, End clevis D



Top clevis F05, End clevis 10

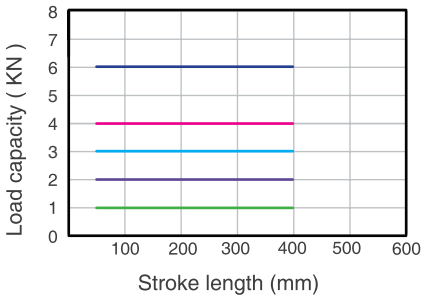


Technical Data-Standard value

Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-lock (N)	Speed at no load/full load（mm/s）	Current at full load (A)
24	7.5	1000	1000	750	22.5/12	4.1
24	5	2000	2000	1500	15/9.8	4.8
24	7.5	3000	3000	2000	10.8/7.3	4.8
24	6	3000	3000	2000	7.9/5.8	3.5
24	4	3000	3000	2000	10.8/7	4.8
24	5	4000	4000	3000	7.5/4.4	4.8
24	5	4000	4000	3000	9.2/5.3	6.6
24	4	6000	4000	5000	2.9/2	3.5
24	4	6000	4000	5000	5.6/3.4	4.8
24	4	6000	4000	5000	7.3/4.4	6.6
24	4	6000	4000	4000	6.7/4	5.5
29	7.5	1000	1000	750	27/14.4	4.6
29	5	2000	2000	1500	18/11.8	5.3
29	7.5	3000	3000	2000	13/8.8	5.3
29	6	3000	3000	2000	9.5/7	4.0
29	4	3000	3000	2000	13/8.4	5.3
29	5	4000	4000	3000	8 /5.3	5.3
29	5	4000	4000	3000	11/6.4	7.1
29	4	6000	4000	5000	3.5/2.4	4
29	4	6000	4000	5000	6.8/4	5.3
29	4	6000	4000	5000	8.7/5.3	7.1
29	4	6000	4000	4000	8/4.8	6

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℃;

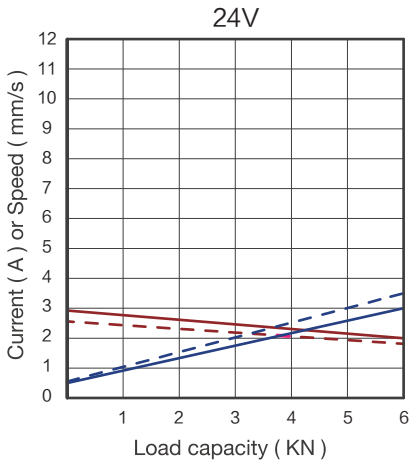
Diagram of relationship between stoke length and load

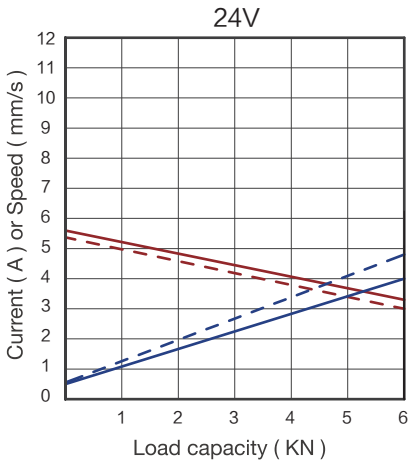


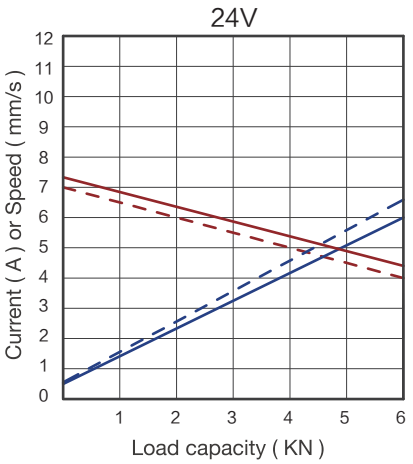
Characteristic Curve

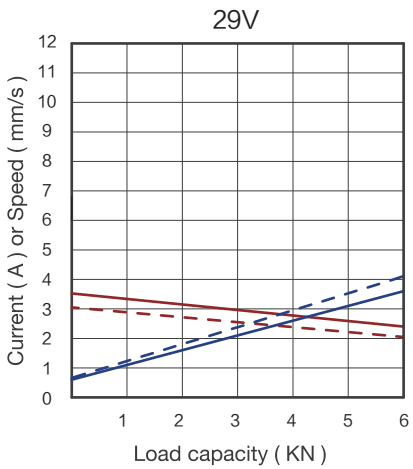
Typical speed
Min. speed
Typical current
Max. current

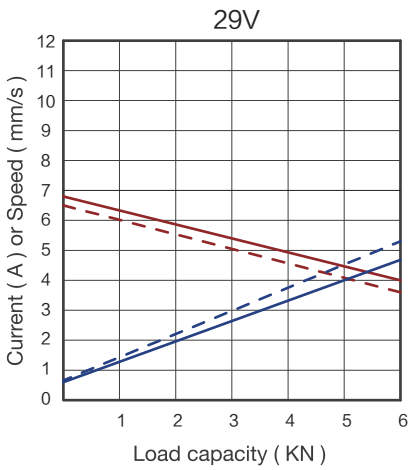
6000N

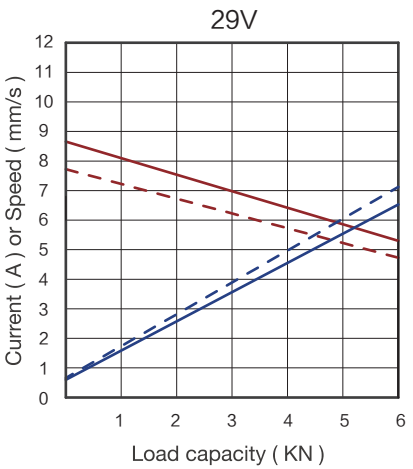






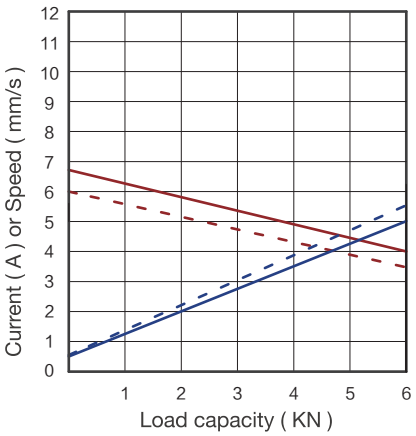




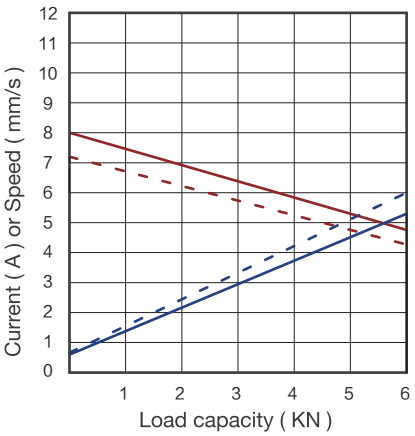


Typical speed
Min. speed
Typical current
Max. current

24V

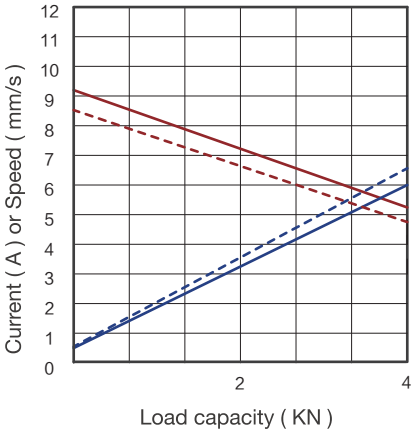


29V

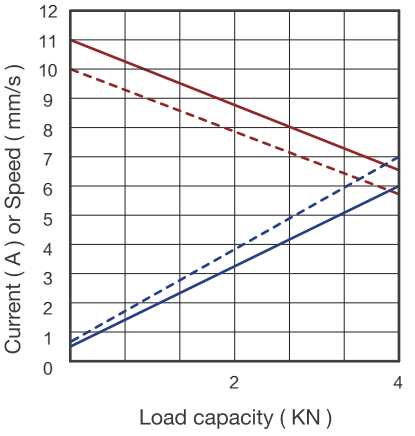


4000N

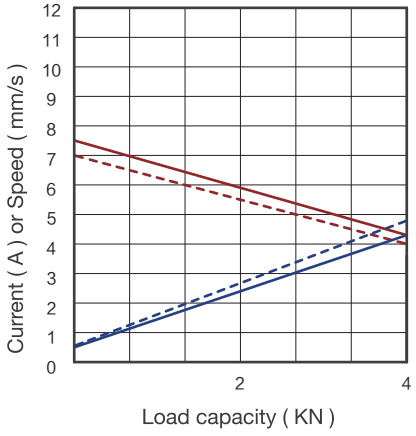
24V



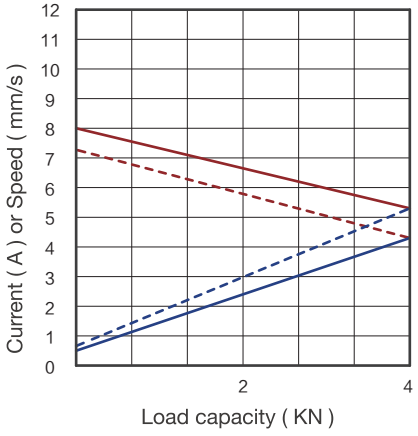
29V



24V



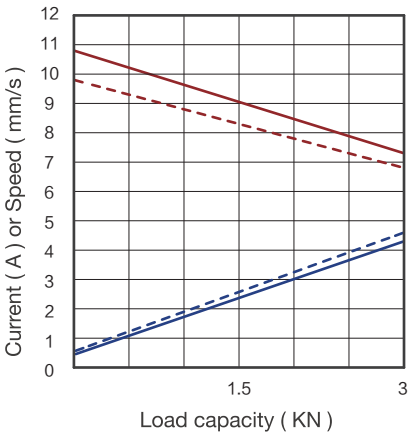
29V



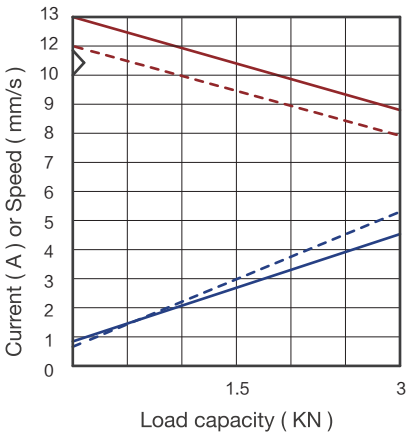
Typical speed
Min. speed
Typical current
Max. current

3000N

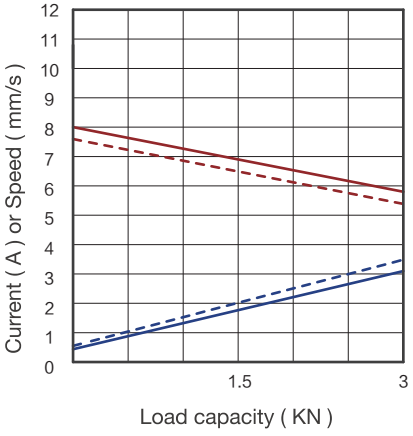
24V



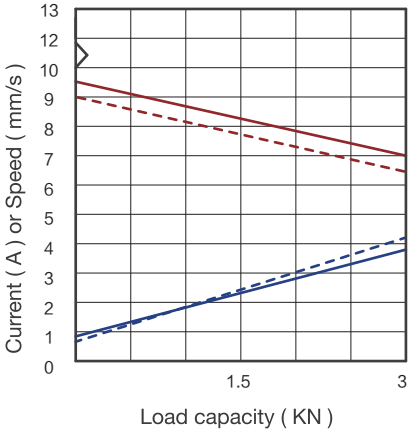
29V



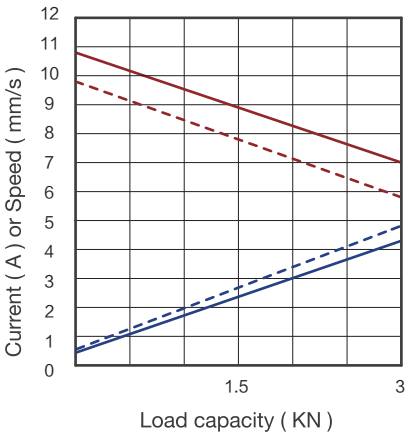
24V



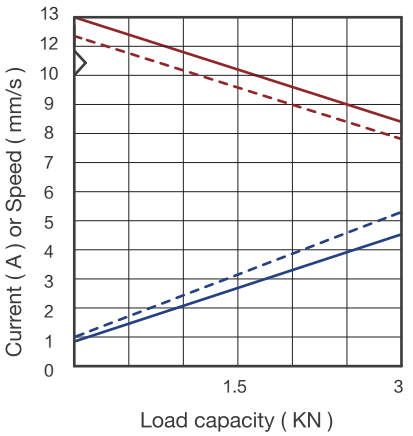
29V



24V



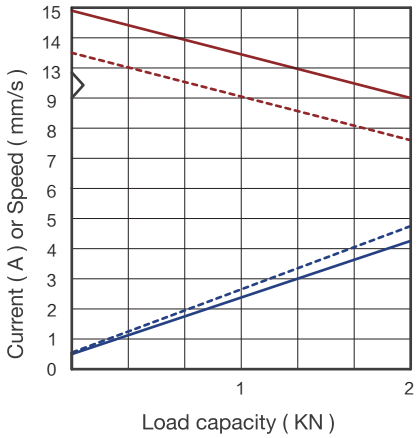
29V



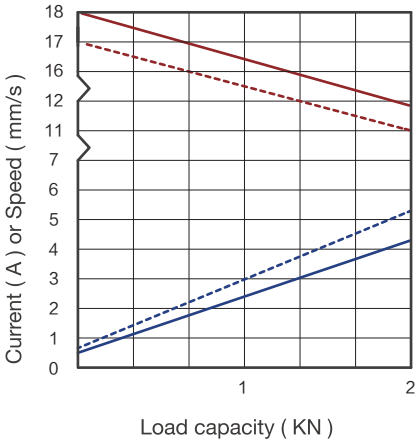
Typical speed
Min. speed
Typical current
Max. current

2000N

24V

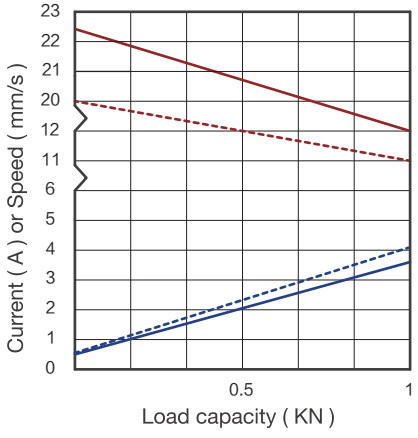


29V

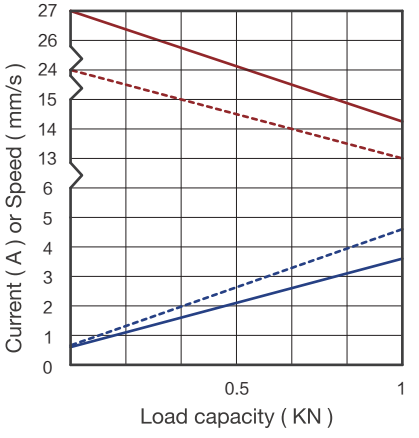


1000N

24V



29V



Ordering Example

Take **JC35B706324350/527HGDT250022D0** for example

Model	**JC35B7**	
Optional features	**X**	0 = Standard / P = Only push no pull / S = Safety nut Y = Hall sensor / R = Reed switch
Load in push	**X**	6 = 6000N / 4 = 4000N / 3 = 3000N / 2 = 2000N / 1 = 1000N
Speed at full load	**X**	2D9 = 2.9mm/s 3 = 3mm/s 5D5 = 5.5mm/s 6D5 = 6.5mm/s 10 = 10mm/s
Input voltage	**XX**	24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Retracted length = XXX
Clevis directions	**X**	H = H direction / V = V direction
Color	**X**	G = Grey / B=Black
End clevis specification	**XX**	D = slot 6.5, hole ϕ 10.1 10 = B-type，operating table dedicated
End clevis material	**X**	T = steel
Top clevis specification	**XX**	F25 = slot 6.5, depth 26, hole ϕ 12.5, hole ϕ 10.1 with bushing F05 = slot 6.5, depth 26, hole ϕ 12.5 without bushing
Brake specification	**X**	0 = No brake / 1 = Brake in pull / 2 = Brake in push
Type of plug and cable	**XX**	02 = 4-pin DIN plug 10 = 5-pin DIN plug
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

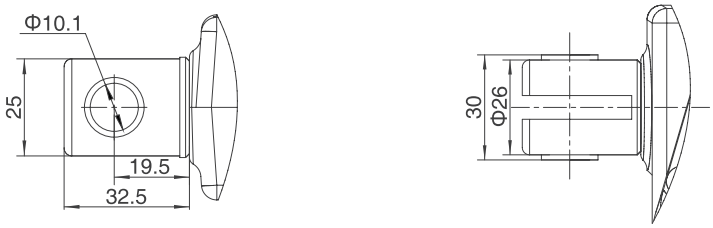
Ordering Details

Dimension drawing of clevis

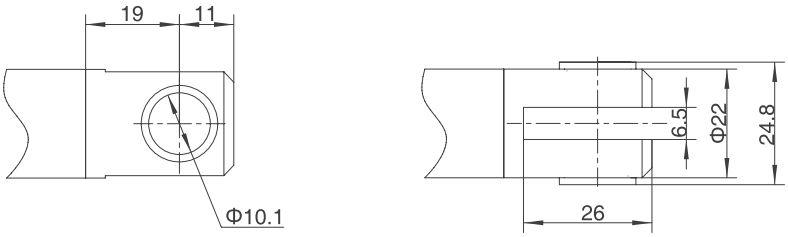
End clevis: 10



End clevis: D



Top clevis: F25



Top clevis: F05



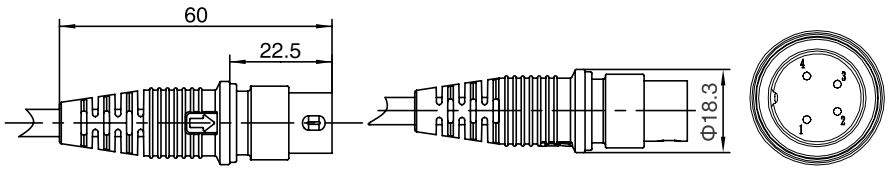
Motor wire

4-pin straight plug (standard)

Matching control box :
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S

Pin	Color	Function
1	NC	Not connected
2	Brown	power with positive voltage, actuator going down
3	Blue	power with positive voltage, actuator going up
4	NC	Not connected
Outer Circle	NC	Not connected



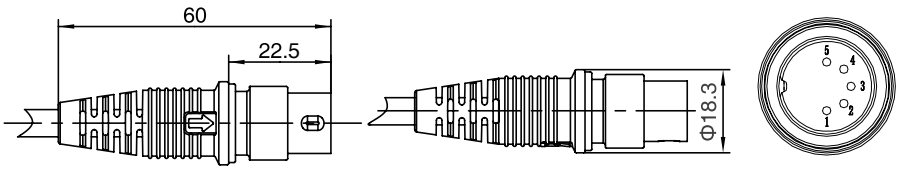


5 pin DIN plug (actuators with Hall sensor)

Matching control box :
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S

Pin	Color	Function
1	Red	5V
2	Brown	power with positive voltage, actuator going down
3	Black	GND
4	Blue	power with positive voltage, actuator going up
5	Yellow	Hall sensor signal 1
Outer Circle	Orange	Hall sensor signal 2





Strictly abiding by medical safety certifications

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

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