JC35L22 Linear Actuator



JC35L22 is a quite competitive and compact actuator specially for medical & care line applications.
It has advantages of, like most linear actuators, durability, but also in budget.
JC35L22 has 2 specifications:
1. Standard version
2. Manual lowering version for both electrical and manual operation.
Its thrust is up to 6000N and can be performed at max. IPX6.

Features And Options

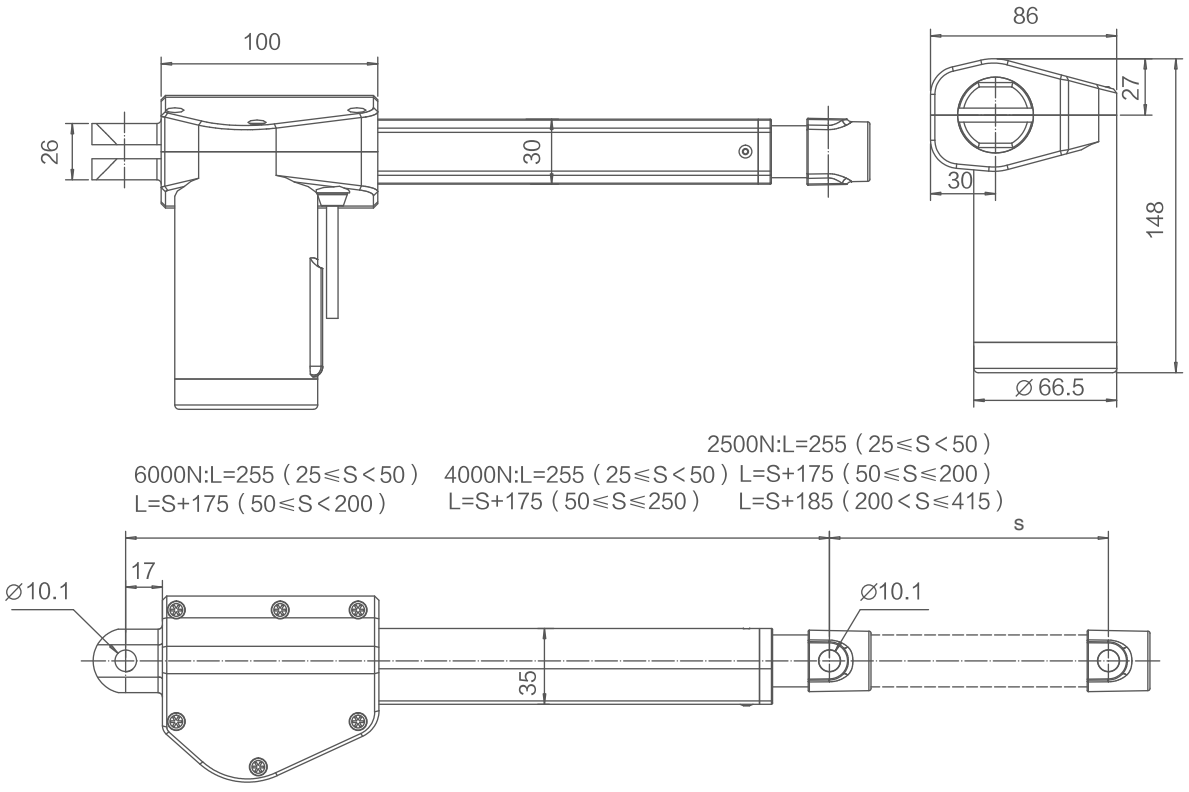
Dynamic Load Push(N):	6000N	4000N	2500N
Dynamic Load Pull (N):	4000N	2500N
Colour:	Gray
Protection Class:	Max. IP66（Hand crank: IP20）
Stroke Length:	Standard: 6000N: 25-200mm （in steps of 4mm） 4000N: 25-250mm （in steps of 4mm） 2500N: 200-415mm （in steps of 4mm） Manual Lowering 6000N: 50-200mm （in steps of 4mm） 4000N: 50-250mm （in steps of 4mm）
Installation Dimension:	Standard: 6000N: L=255 (25≤S＜50) / L=S+175 (50≤S＜200) 4000N: L=255 (25≤S＜50) / L=S+175 (50≤S≤250) 2500N(Long stroke, only used in straight up and down) ： L=225 (25≤S<50) / L=S+175 (50≤S＜200) / L=S+185 (200≤S≤415) Manual Lowering: 6000N: L=255 (25≤S＜50) / L=S+175 (50≤S＜200) 4000N: L=255 (25≤S＜50) / L=S+175 (50≤S≤250)
Optional:	Manual lowering, Hall sensor, Only push, Signal switch, Mechanical end stop
Limit Switch:	Built-in (electronic)
Noise Level:	≤48dB(environmental noise≤40dB)
Static Bending Moment:	Lateral load is not allowed
Approval:	Standard: 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 Hand crank:/

Usage

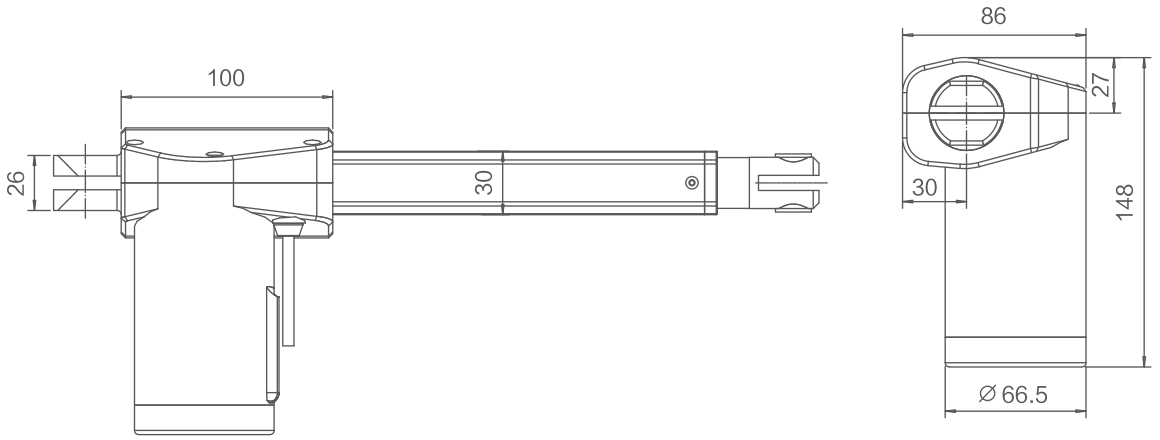
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

Front clevis F16, end clevis B10



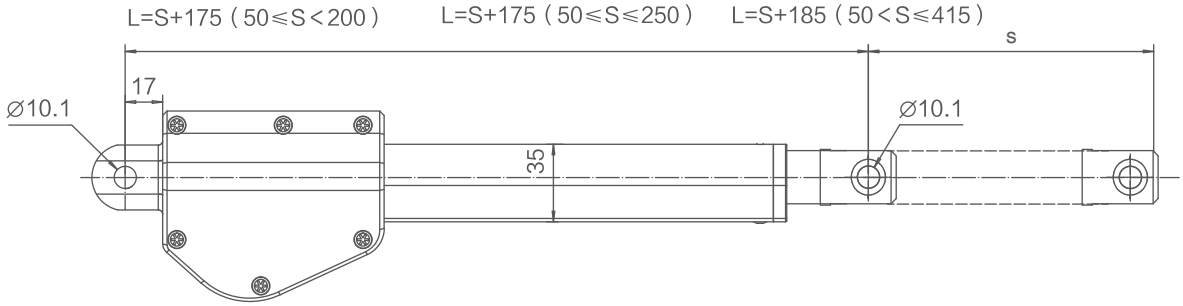
Front clevis F05, end clevis B10



6000N:L=255（25≤S＜50）
L=S+175（50≤S＜200）

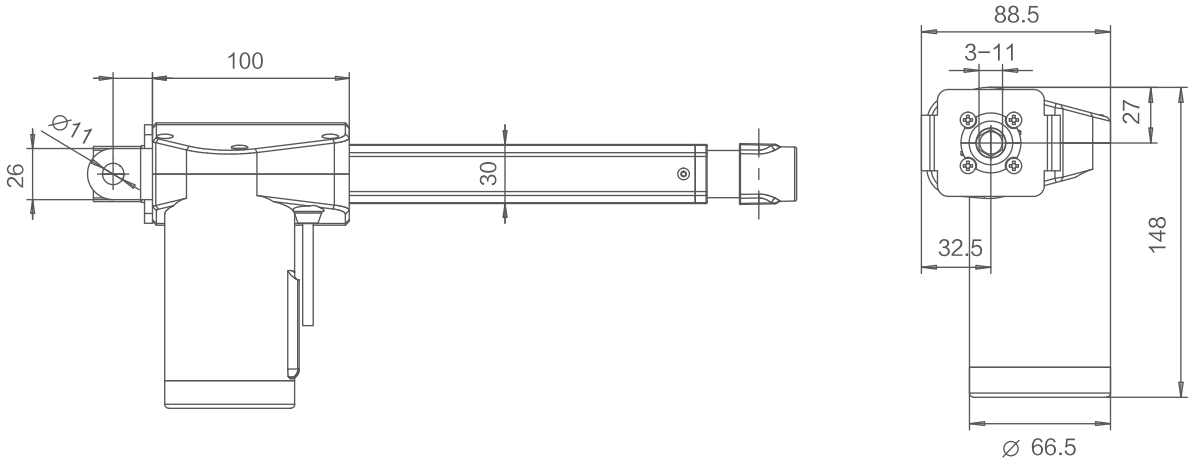
4000N:L=255（25≤S＜50）
L=S+175（50≤S≤250）

2500N:L=255（25≤S＜50）
L=S+175（50≤S≤200）
L=S+185（50＜S≤415）



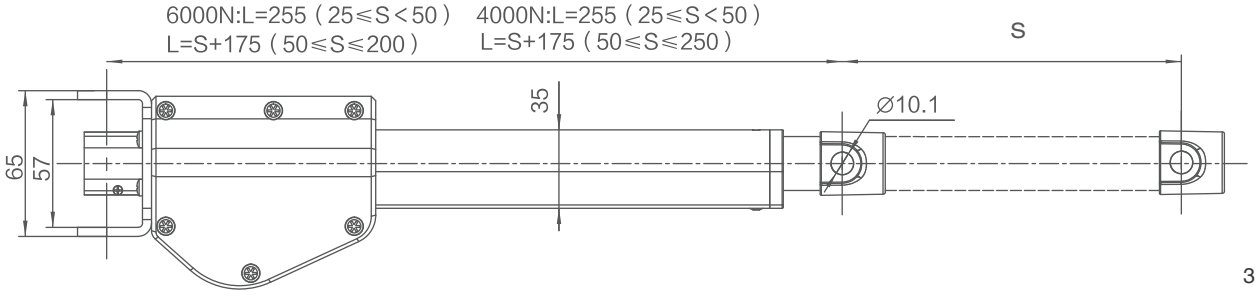
Manual lowering

Front clevis F16, end clevis B44

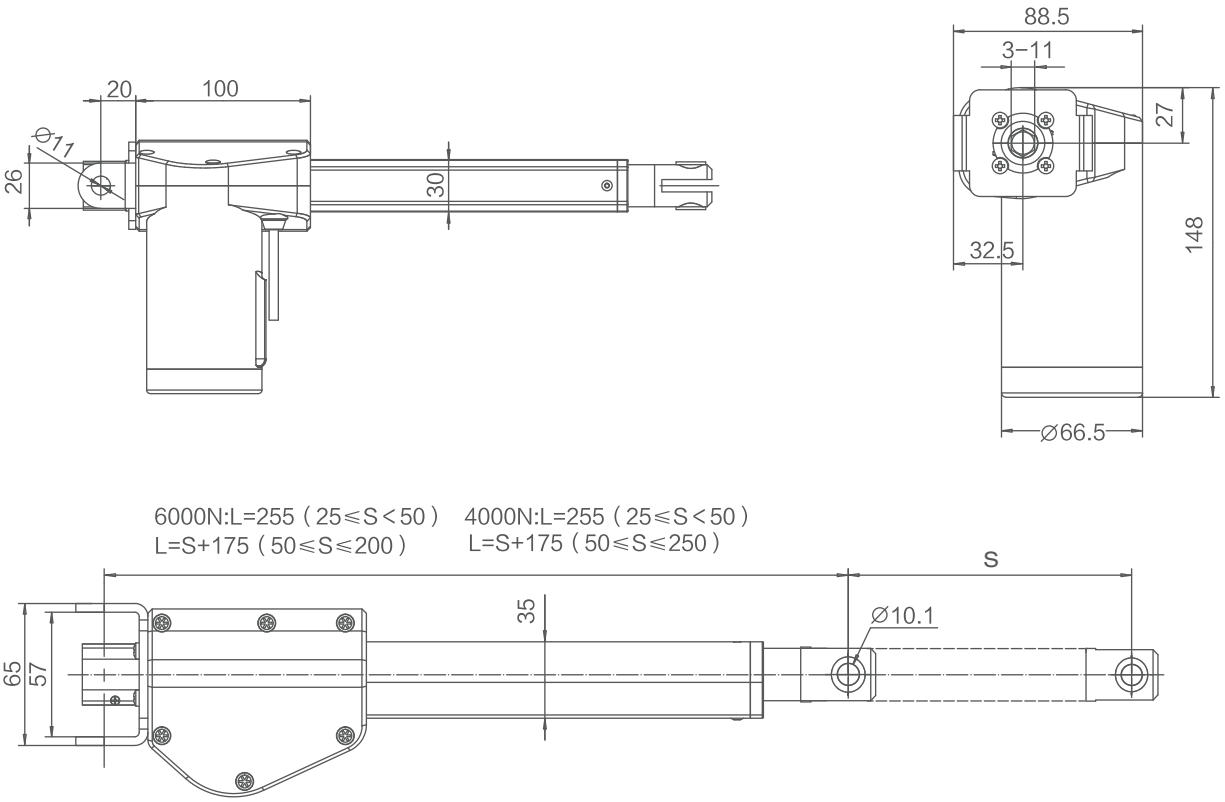


6000N:L=255（25≤S＜50）
L=S+175（50≤S≤200）

4000N:L=255（25≤S＜50）
L=S+175（50≤S≤250）



Front clevis F05, end clevis B44



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)
29	4.0	6000	4000	6000	7.7/4.8	≤6.0
	3.0	6000	4000	6000	4.3/2.6	≤4.8
	5.0	6000	4000	6000	7.7/3.8	≤5.5
	5.0	4000	4000	4000	10/7	≤5.5
	4.0	4000	4000	4000	6/4	≤5.0
	5.0	2500	2500	2500	15.5/8.5	≤5.0

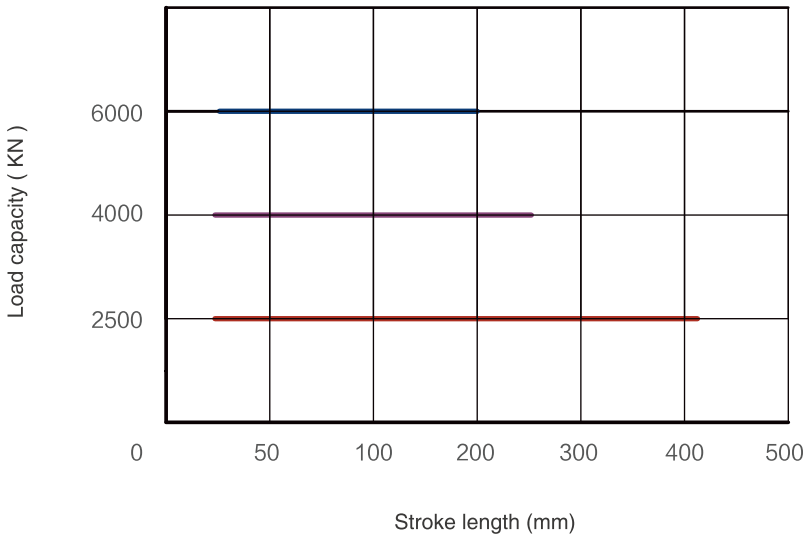
Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Ordering Key

Take **JC35L22062D629100/275HG10S160021D5** as an example

Model	**JC35L22**	
Optional features	**X**	O=Standard P=Only push Y=Hall sensor H=Manual lowering
Load in push	**X**	6=6000N | 4=4000N | 2D5=2500N
Speed at full load	**X**	2D6=2.6mm/s | 3D8=3.8mm/s 7=7mm/s | 8D5=8.5mm/s 4=4mm/s
Input voltage	**XX**	29=29VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length=XXX Installation dimensions =XXX
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	G=Gray
End clevis specification	**X**	B10= slot 6.5, depth 32, hole ϕ10.1 B44= special clevis for hand crank. Diamater 11.
End clevis material	**X**	S= plastic I G=cast steel (hand crank)
Front clevis specification	**XXX**	F09= hole ϕ10.1 with plastic bushing F05= slot 6.5, depth 26, hole ϕ10.1 with plastic bushing
Brake specification	**X**	0=standard | 2= brake in push
Type of connector and cable	**XX**	02 = 4 Pin Din connector 10 = 5 Pin Din connector
Cable length	**XXX**	2D0=2m 1D5=1.5m 1=1m

Diagram of relationship between stroke length and load

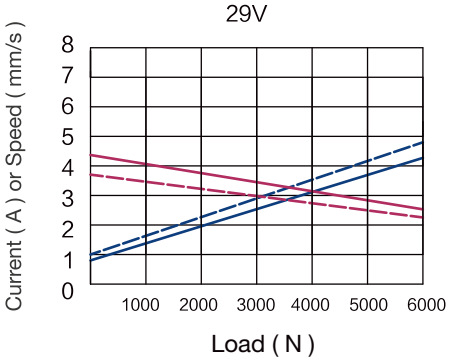


Characteristic Curve

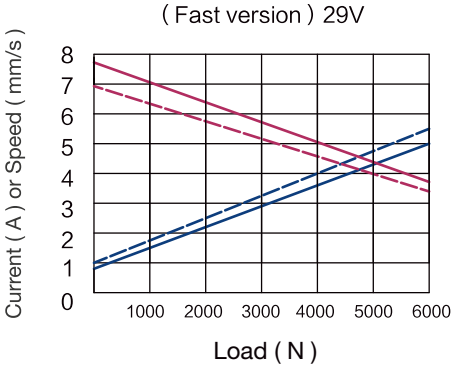
Typical speed
Min. speed
Typical current
Max. current

6000N

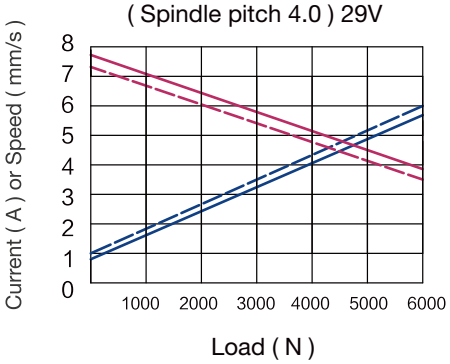
29V



(Fast version) 29V



(Spindle pitch 4.0) 29V

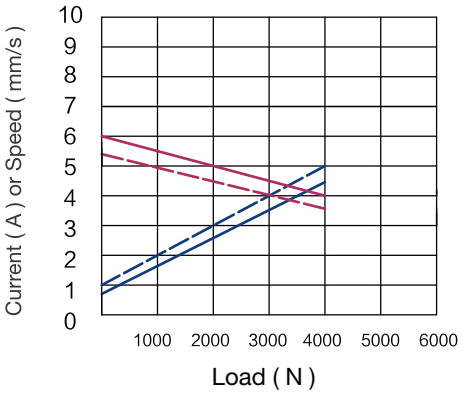


Characteristic Curve

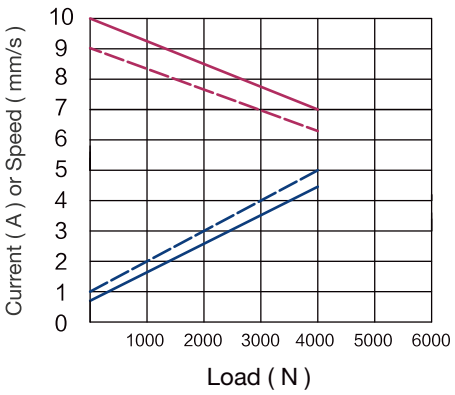
Typical speed
Min. speed
Typical current
Max. current

4000N

29V

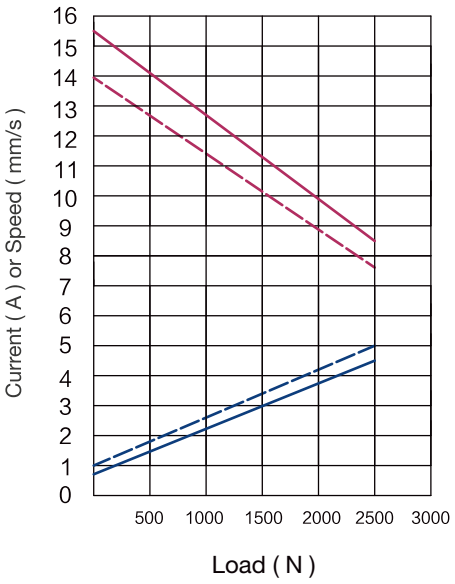


(Fast version) 29V



2500N

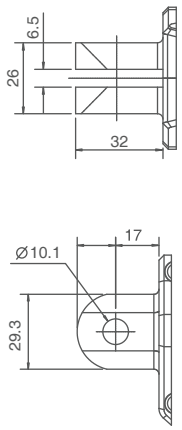
29V



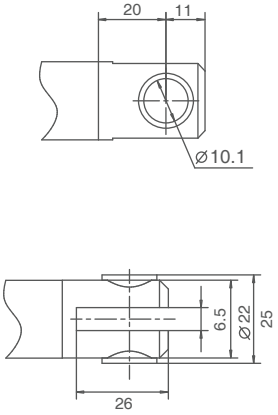
Ordering Details

Dimensions of clevis

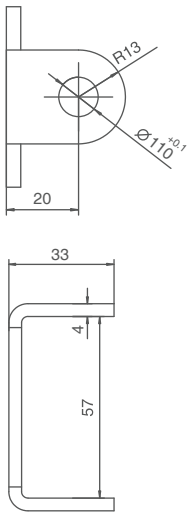
End clevis B10



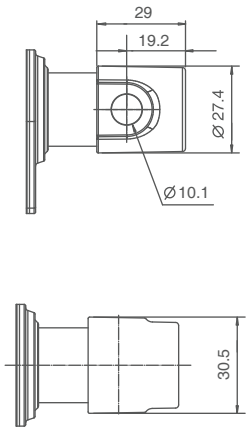
Front clevis F05
(Manual lowering)



End clevis B44



Front clevis F16



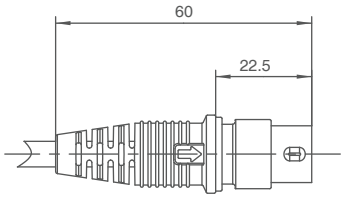
Motor cable

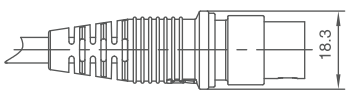
4 Pin Din Connector (standard)

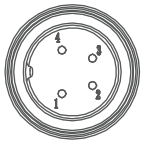
Supporting control box :
JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Color	Functions
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







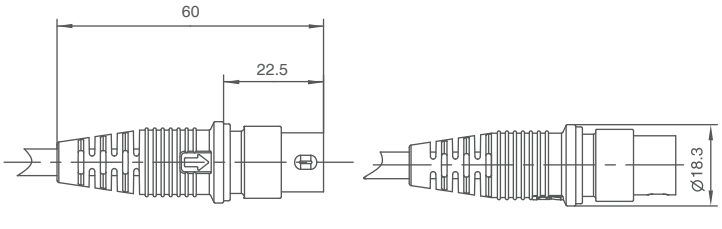


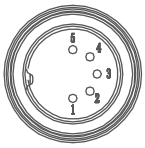
5 Pin Din Connector (with Hall sensor)

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

Pin	Color	Functions
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