

JC35D4 Linear Actuator

Application field - Medical Line
 Preferably in operating table, nursing bed, medical bed

Jiecang JC35D4 is an economic actuator with specifications of JC35D4-6000N(push), JC35D4-4000N(push), and JC35D4-3000N(push). JC35D4 is characterized by compact structure, large load capacity as well low noise.

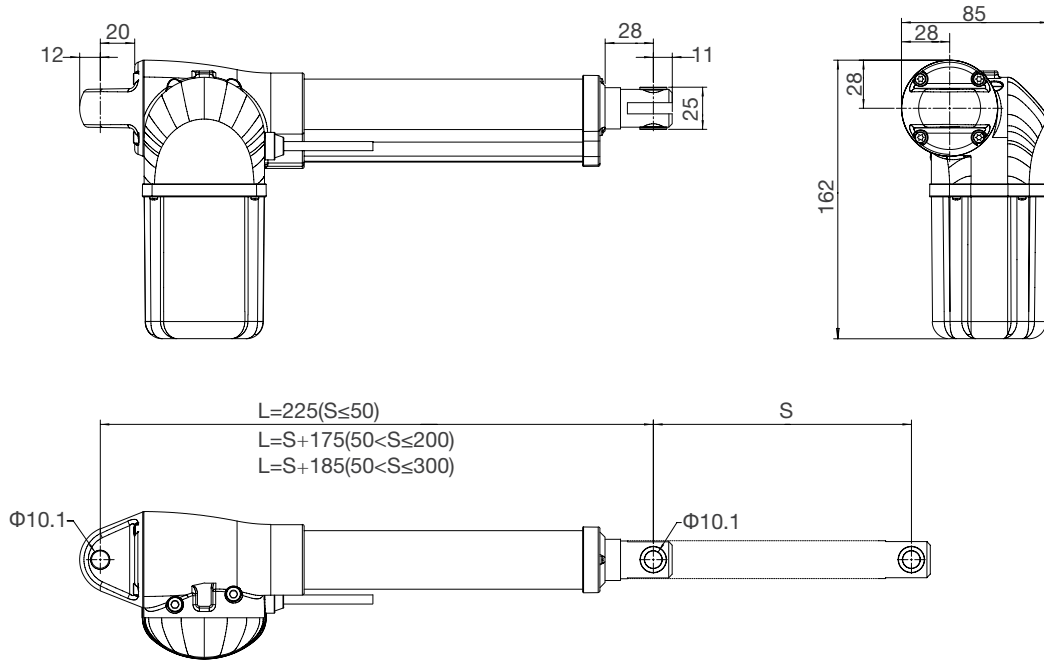


General Features

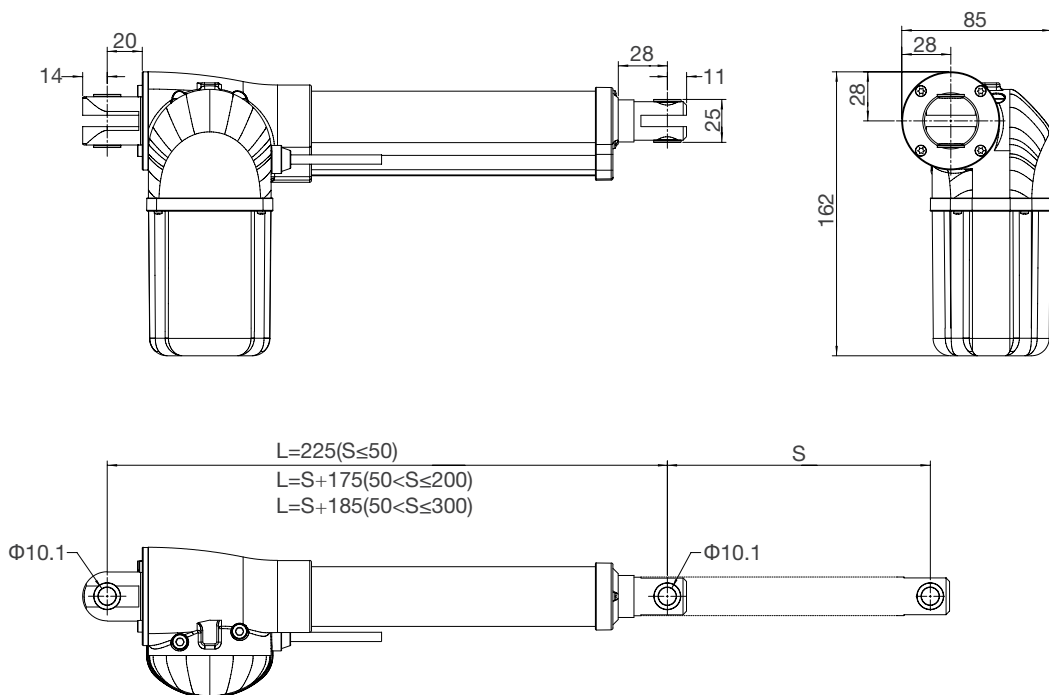
Load in push*(N):	6000 4000 3000
Motor rated voltage Input Input (VDC):	24
Installation dimensions:	L=225 (S ≤ 50) L=S+175 (50 < S ≤ 200) L=S+185 (50 < S ≤ 300)
Stroke length (mm):	6000N: 50-200mm (in steps of 4mm) 4000N: 50-300mm (in steps of 4mm) 3000N: 50-300mm (in steps of 4mm)
Options:	Safety nut, Hall sensor, Only push
Colour:	Black (RAL 9005) or Grey (RAL 7035)
Limit switch:	Built-in (electrical)
Weight:	About 1.5kg (different stroke length and installation dimensions with different weight)
Duty cycle:	10%, max. 2min. continuous use
IP Grade:	Max.IP54
Noise level:	≤ 48dB (environmental noise ≤ 40dB)
Static bending moment:	lateral load is not allowed
Flame retardant grade:	UL94-HB
Standards:	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

Dimension Drawing

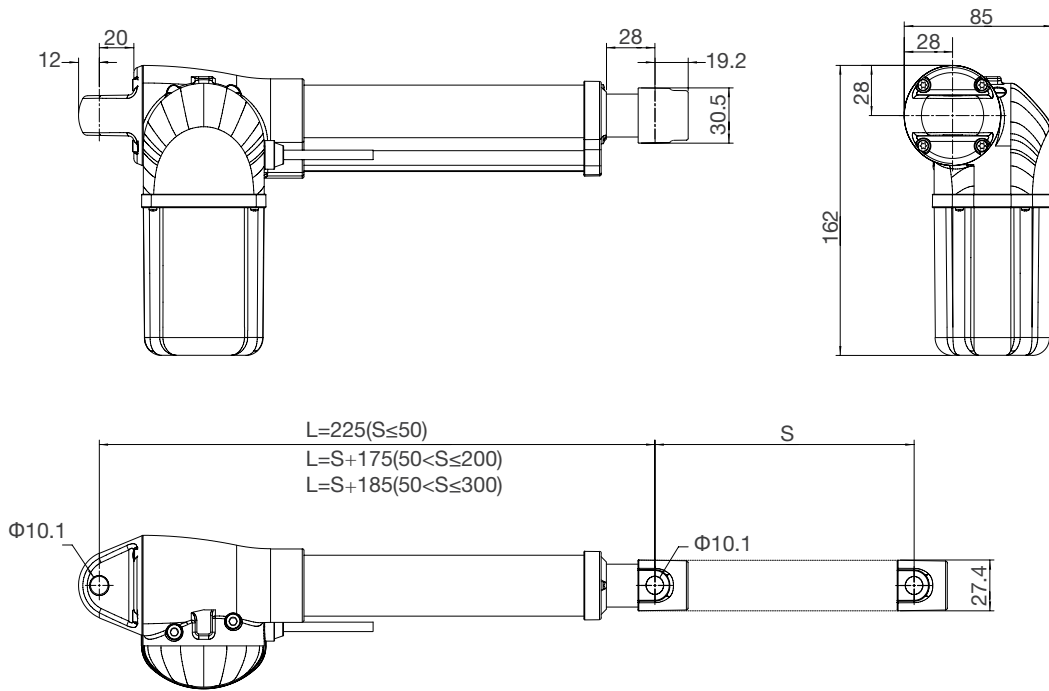
Top clevis F05, end clevis A



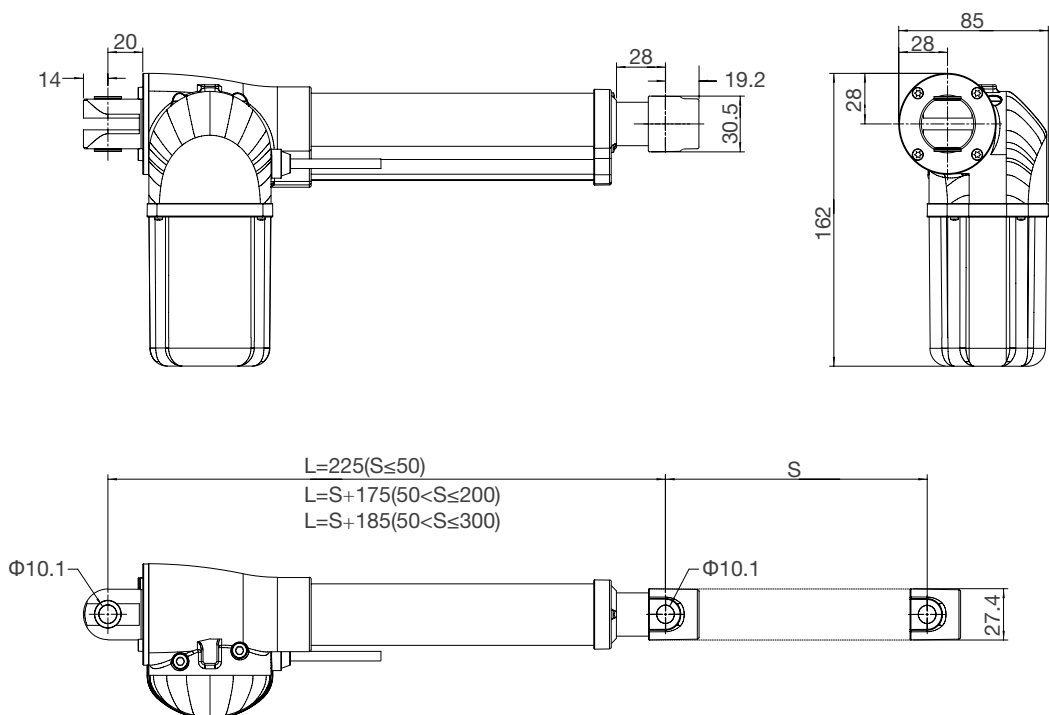
Top clevis F05, end clevis D



Top clevis F08 (F09), end clevis A



Top clevis F08 (F09), end clevis D

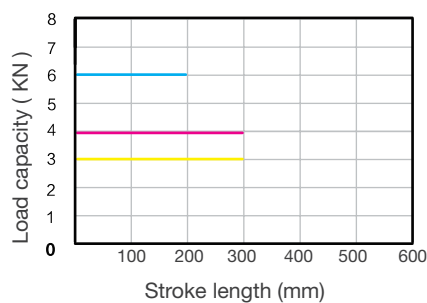


Technical parameters

Input voltage (VDC)	Spindle pitch (mm)	Max.Load capacity (N)	Self locking (N)	Speed no load (mm/s)	Speed full load (mm/s)	Current full load (A)
24	4	6000	6000	5	3	4
24	5	4000	4000	6	4	4
24	7.5	3000	3000	10	6	4
29	4	6000	6000	6	3.5	4
29	5	4000	4000	7.2	5	4
29	7.5	3000	3000	12	7	4
36	4	6000	6000	7.5	4.2	4
36	5	4000	4000	9	6	4
36	7.5	3000	3000	15	9	4

Remark: the above data are typical values at 25 °C

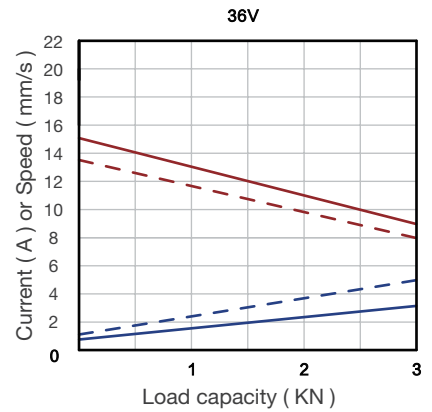
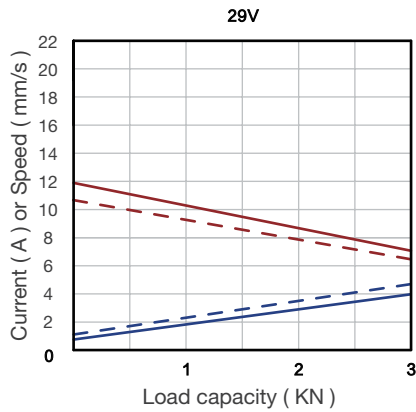
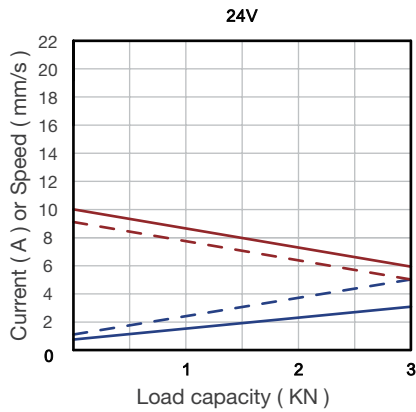
Stroke length versus load



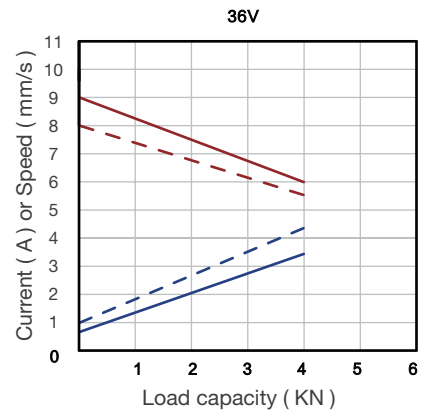
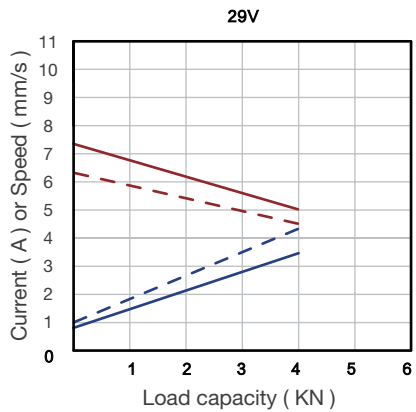
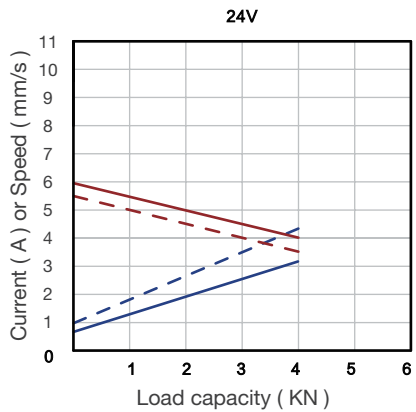
Characteristic

Typical speed ————
 Min. speed - - - - -
 Typical current ————
 Max. current - - - - -

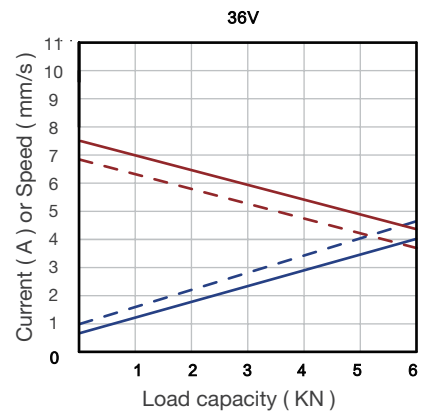
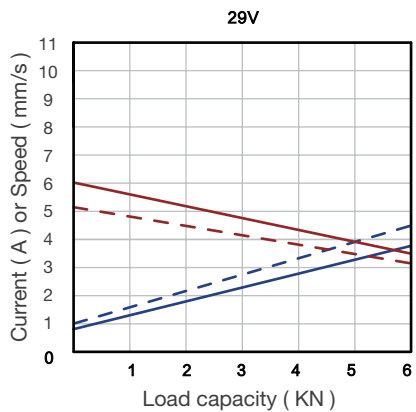
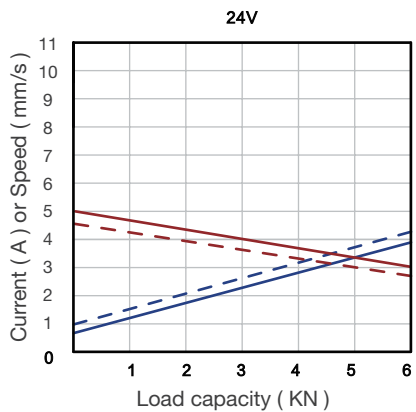
3000N



4000N



6000N



Ordering Key

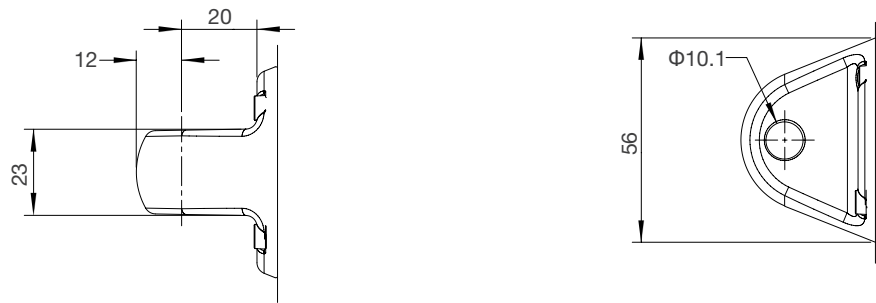
Take **JC35D406324100/275HGDL052022D0** for example

Model	JC35D4	
Optional features	0	O = Standard / P = Only push S = Safety nut / Y = Hall sensor
Load in push	6	6 = 6000N 4 = 4000N 3 = 3000N
Speed at full load	3	3 = 3mm/s 4 = 4mm/s 6 = 6mm/s
Input voltage	24	24 = 24 VDC
Stroke length/ Installation dimension	100/275	Stroke length = XXX Installation dimension = XXX
Clevis directions	H	H = H direction / V = V direction
Color	G	G = Grey (RAL7035) / B = Black (RAL9005)
End clevis specification	D	A = Without slot, hole \varnothing 10.1 D = Dlot 6.5, depth 32, hole \varnothing 10.1 wish bushing
End clevis material	L	S = Plastic L = Aluminum alloy
Top clevis specification	05	05 = F05 slot 6.5, depth 26, hole \varnothing 10.1 with bushing, \varnothing 24 aluminum tube 08 = F08 without slot, hole \varnothing 10.1 with bushing(black) 09 = F09 without slot, hole \varnothing 10.1 with bushing(white)
Brake specification	2	0 = No brake / 1 = Brake in pull / 2 = Brake in push
Type of plug and cable	02	02 = 4-pin DIN plug 10 = 5 pin DIN plug
Cable length	2D0	2D0 = 2m / 0D5 = 0.5m

Ordering Details

Dimension drawing of clevis

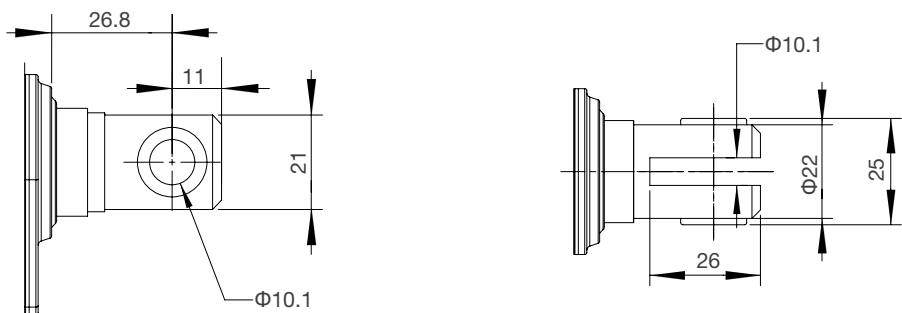
End clevis: A



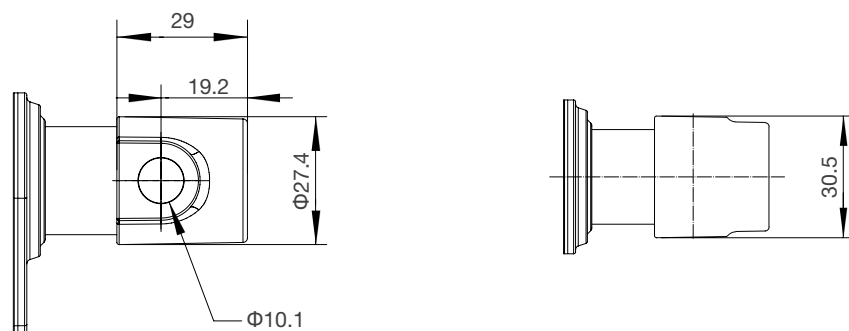
End clevis: D



Top clevis: F05

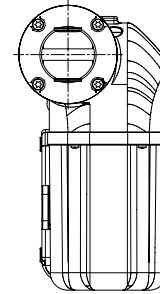
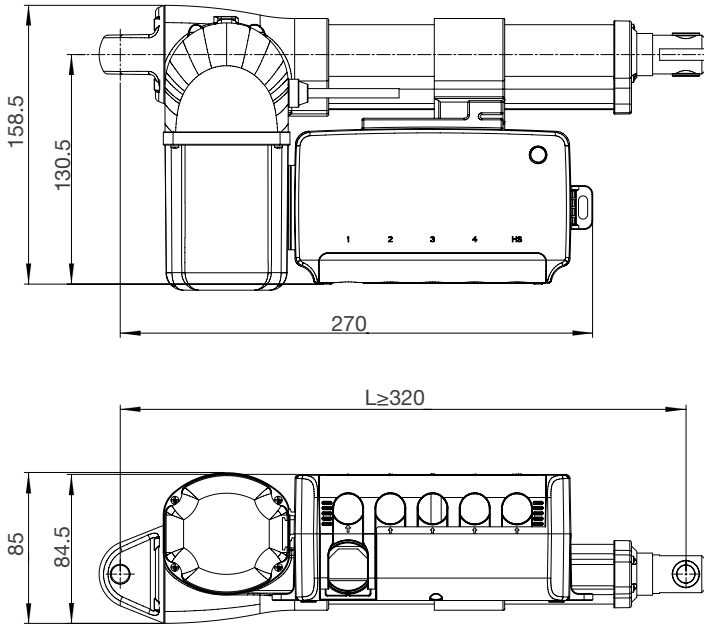


Top clevis: F08 (F09)

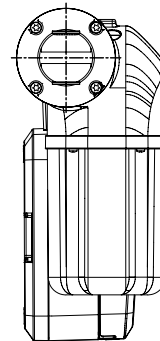
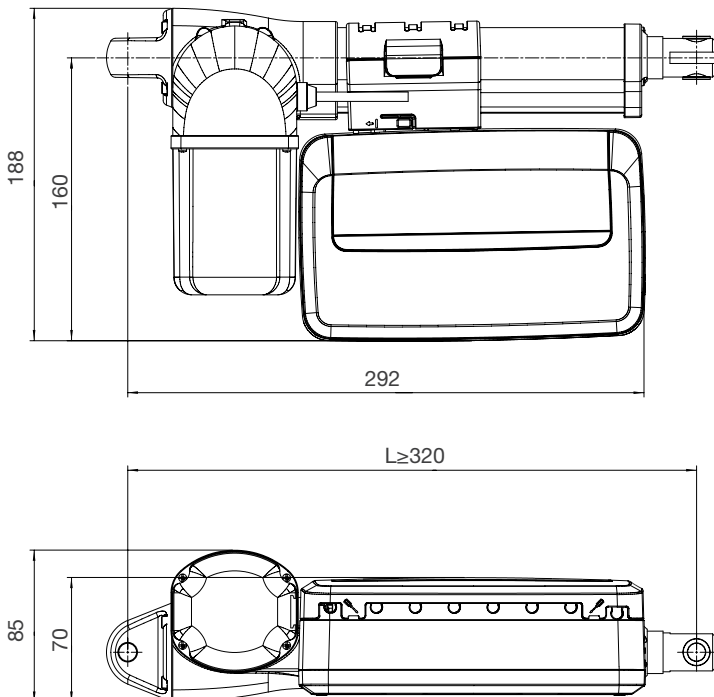


Dimensions JC35D4 with control box

JCB35Q2 install on JC35D4



JCB35T2 install on JC35D4

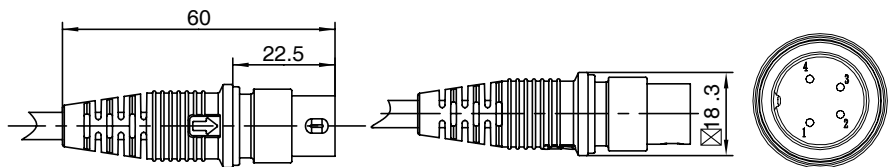


Motor wire

4-pin straight plug (standard)

Matching controller: JCB35Q/
JCB35T/ JCB35R/ JCB35R1/
JCB35S/ JCB35K2

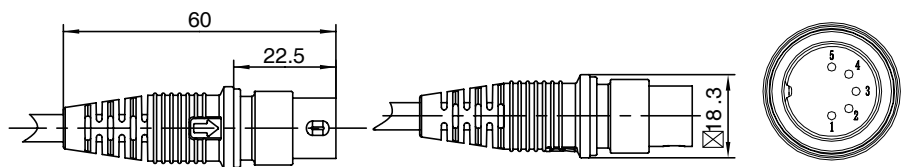
Pin	Color	Function
1	NC	Not connected
2	Brown	When positive voltage power on, actuator will go down
3	Blue	When positive voltage power on, actuator will go up
4	NC	Not connected
Outer ring	NC	Not connected



**5 pin DIN plug
(with Hall sensor)**

Matching controller: JCB35Q/
JCB35T/ JCB35R/ JCB35R1/
JCB35S/ JCB35K2

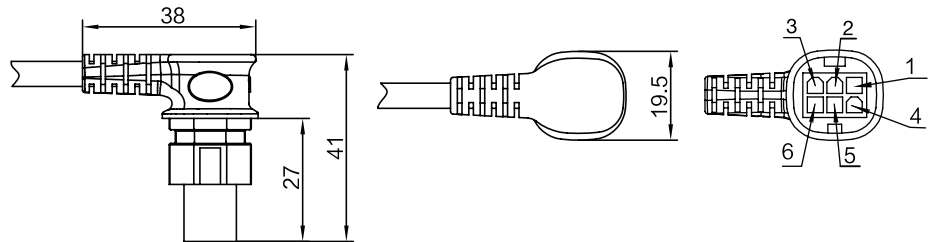
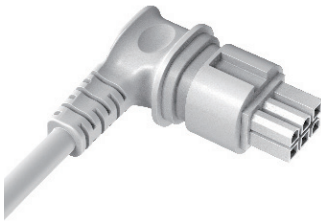
Pin	Color	Function
1	Red	5V
2	Brown	When positive voltage power on, actuator will go down
3	Black	GND
4	Blue	When positive voltage power on, actuator will go up
5	Yellow	Hall signal 1
Outer ring	Orange	Hall signal 2



6 Pin Mini-Fit elbow plug

Matching control box :JCB35T2/
JCB35T3/JCB35Q3/JCB35K3

Pin	Color	Function
1	Orange	When not on lower limit, link with red wire
2	Black	When not on upper limit, link with yellow wire
3	Red	When not on lower limit, link with orange wire
4	Brown	When positive voltage power on,actuator will go down
5	Blue	When positive voltage power on,actuator will go up
6	Yellow	When not on upper limit, link with black wire





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



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