JIECANG

JC35W1 Linear Actuator

JC35W1 is an actuator with low noise level, high-strength front and rear fixings. It has below models of JC35W1-1000N; JC35W1-750N; JC35W1-500N; JC35W1-250N; JC35W1-125N. JC35W1 is characterized by low noise level and excellent water-proof performances(IPX4).
It can be widely used in vent system, awning, harvesters, automatic equipment as well engineering machinery.



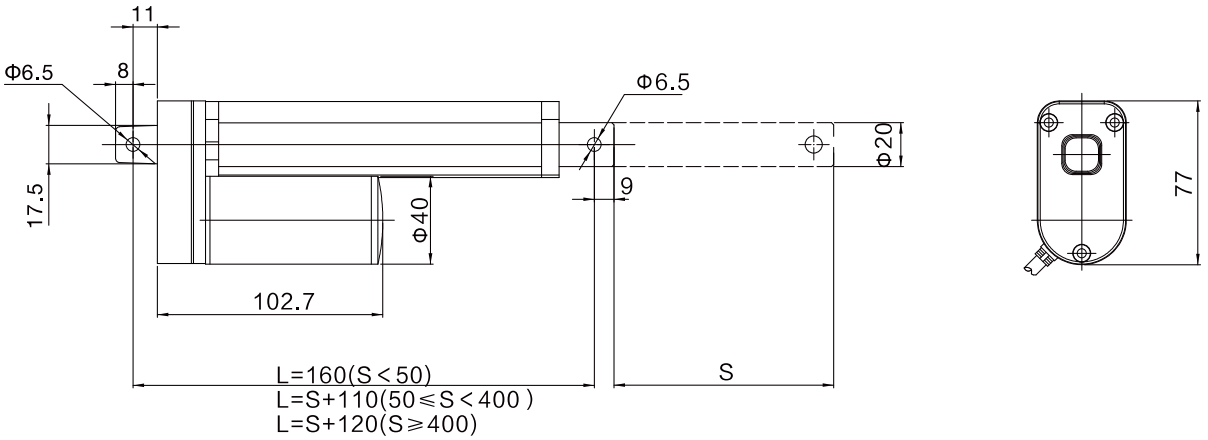
Features And Options

Dynamic load push(N):	1000 | 750 | 500 | 250 | 125
Dynamic load pull (N):	1000 | 750 | 500 | 250 | 125
Colour:	Silver gray
IP Grade:	IPX4
Stroke Length:	1000N: 15-400mm (in steps of 4mm) 750N: 15-400mm (in steps of 4mm) 500N: 15-400mm (in steps of 4mm) 250N: 15-400mm (in steps of 4mm) 125N: 15-400mm (in steps of 4mm)
Installation Dimensions:	L=160 (15≤S<50) L=S+110 (50≤S<400)
Noise Level:	≤60dB (ambient noise level≤40dB)
Optional:	Only Push No Pull
Limit Switch:	Built-in (electrical)
Weight:	About 1kg (differences in stroke/installation dimension)
Static bending moment:	lateral load is not allowed
Approval:	ANSI/AAMI ES60601-1: A1: 2012, C1:2009/(R)2012 and A2: 2010/(R)2012 EN60601-1: 2006+A1: 2013+A11: 2011+A12: 2014+A2: 2021

Usage

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

Dimension Drawing

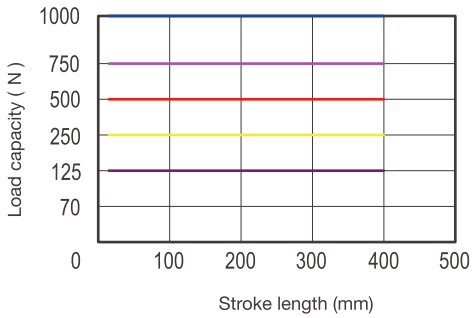


Technical Data-Standard Value

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	2	1000	1000	1000	3.3/2	≤1.5
24	3	750	750	750	4.6/3	≤1.5
24	5	500	500	500	8.2/6	≤1.5
24	10	250	250	250	16.7/10	≤1.5
24	20	125	125	125	30/20	≤1.5
24	2	1000	1000	1000	2/1	≤0.8
24	10	250	250	250	10/6	≤0.8
29	2	1000	1000	1000	4/2.4	≤1.5
29	3	750	750	750	5.5/3.6	≤1.5
29	5	500	500	500	9.8/7.2	≤1.5
29	10	250	250	250	20/12	≤1.5
36	5	500	500	500	7/4	≤1.5
36	10	250	250	250	16/10	≤1.5
48	3	750	750	750	5/3	≤1.5
12	2	1000	1000	1000	3/2	≤3
12	3	750	750	750	5/3	≤3
12	5	500	500	500	8/6	≤3
12	10	250	250	250	16/10	≤3
12	20	125	125	125	30/20	≤3

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.

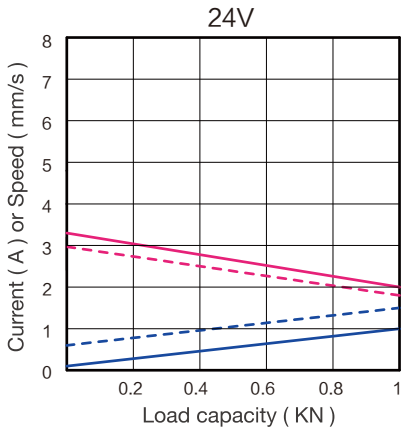
Diagram of relationship between stroke length and load

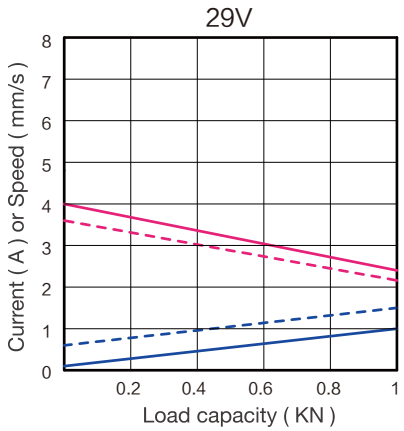


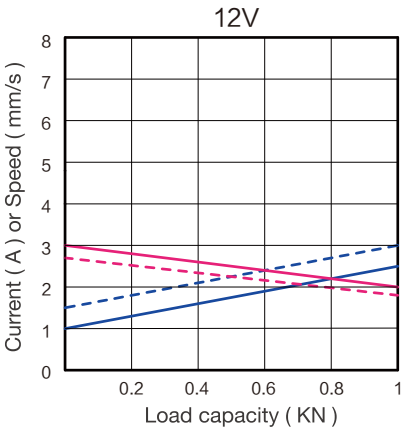
Characteristic Curve

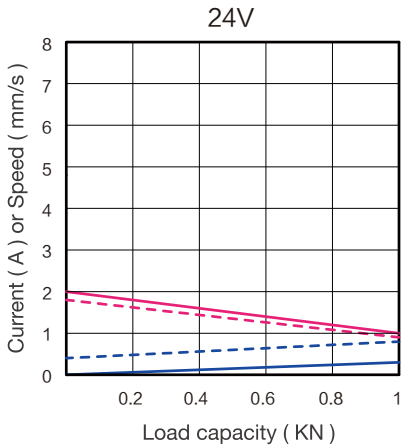
Typical speed
Min. speed
Typical current
Max. current

1000N



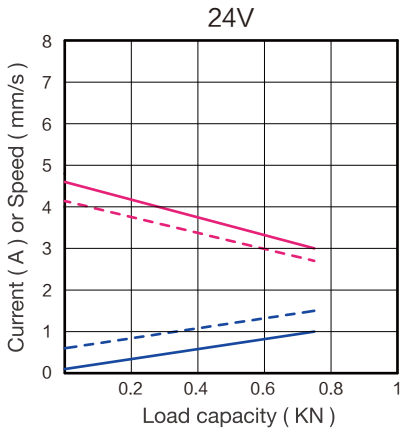


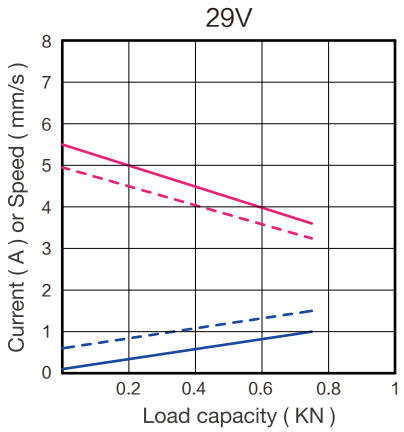


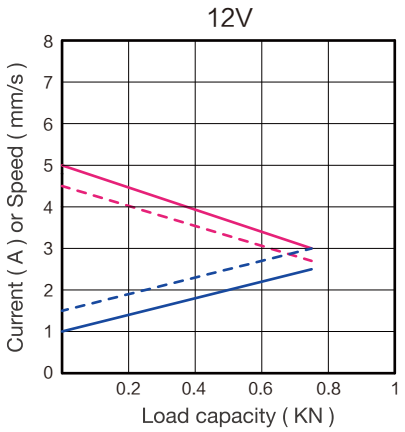


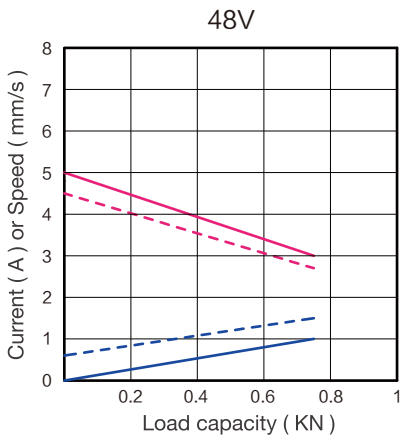
Typical speed
Min. speed
Typical current
Max. current

750N

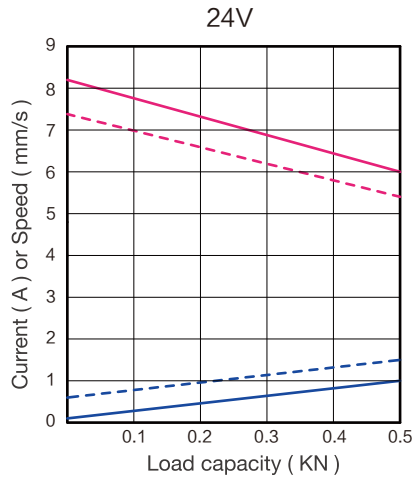


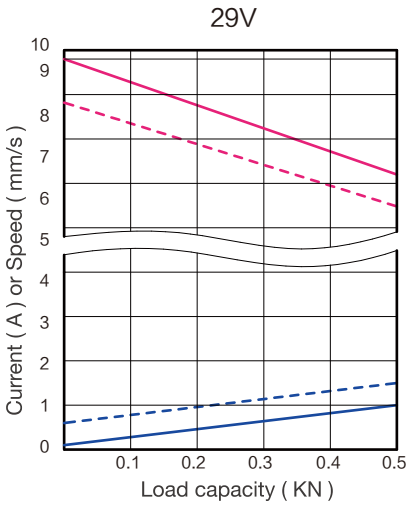


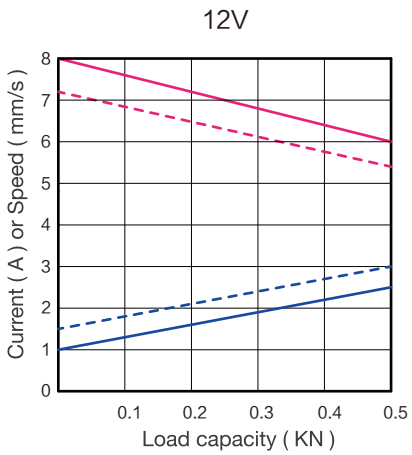




500N



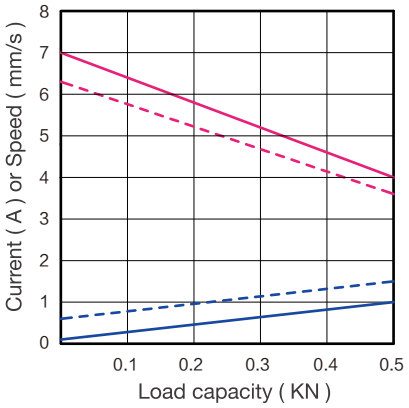




Typical speed
Min. speed
Typical current
Max. current

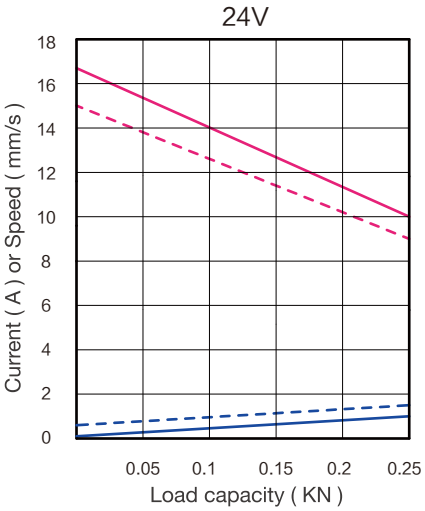
500N

36V

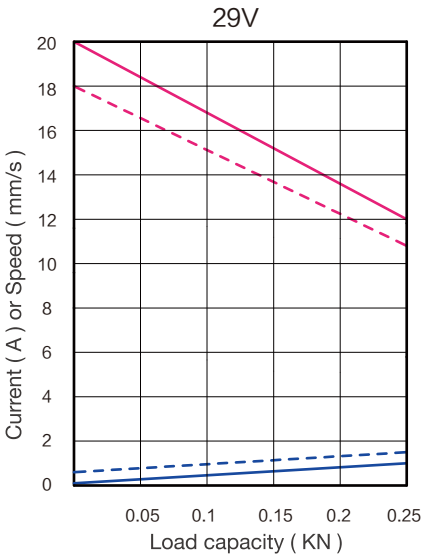


250N

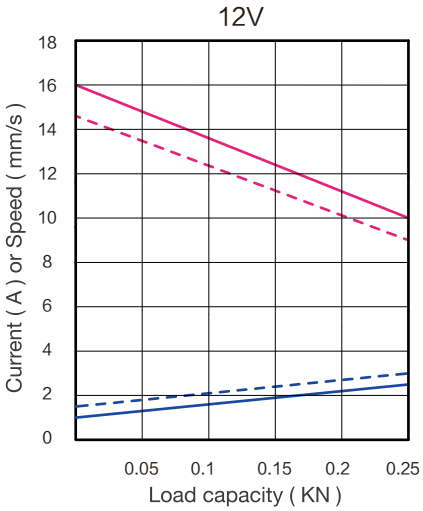
24V



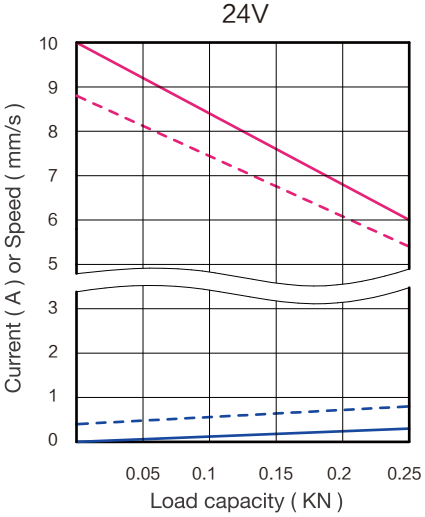
29V



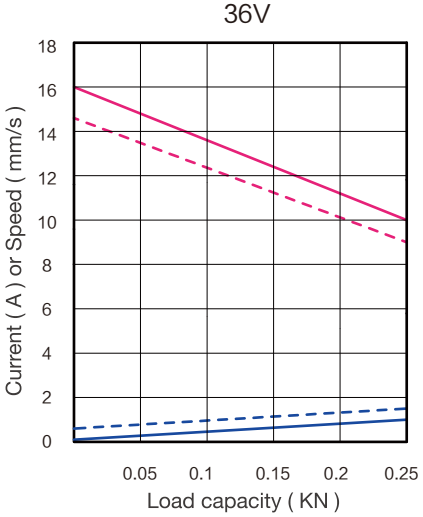
12V



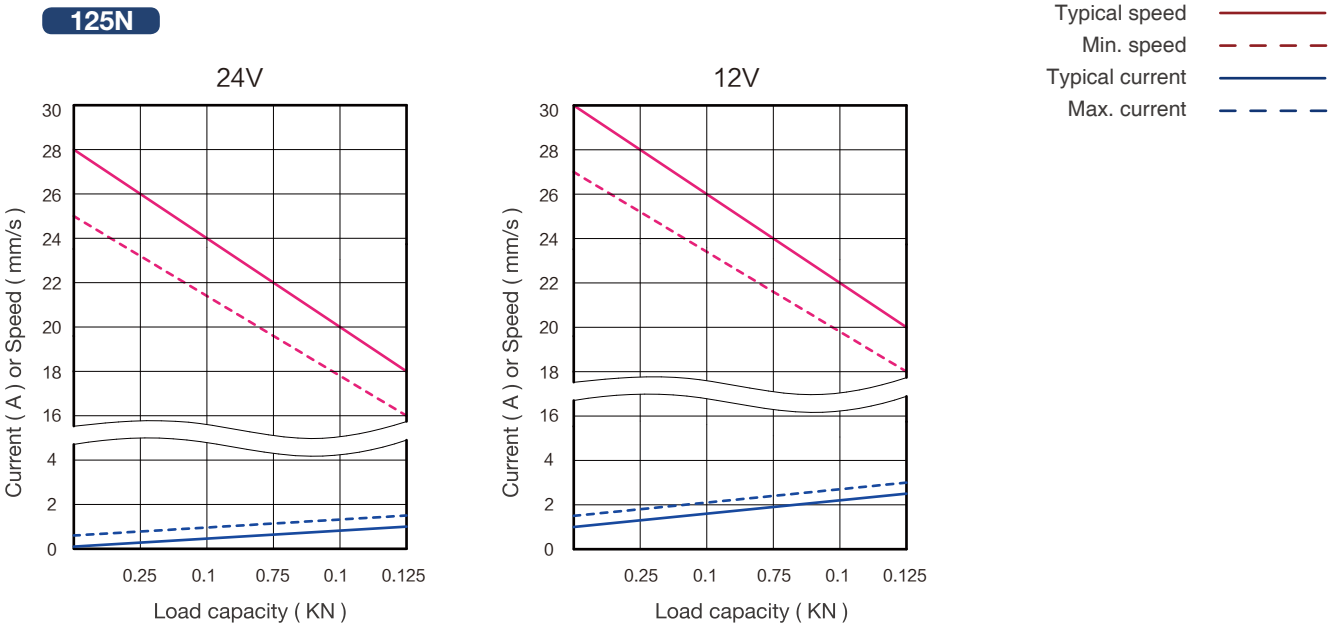
24V



36V



125N


Typical speed
Min. speed
Typical current
Max. current
24V
12V
Current (A) or Speed (mm/s)
30
28
26
24
22
20
18
16
4
2
0
0.25
0.1
0.75
0.1
0.125
Load capacity (KN)

Ordering Examples

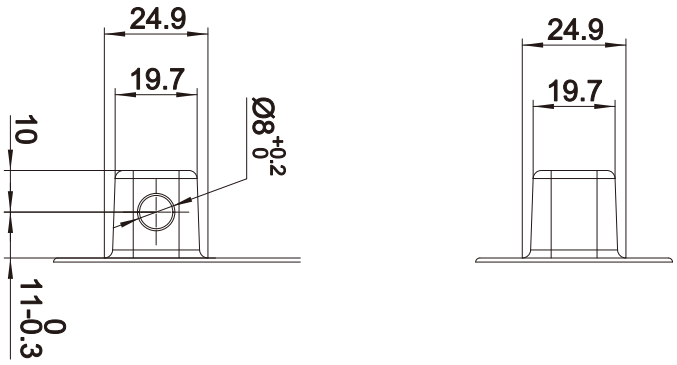
Take **JC35W10122480/1900G00A0142D0** for example

Model	**JC35W1**	
Optional features	**X**	0 = Standard / P = Only push
Load in push	**XXX**	1=1000N / 0D75=750N / 0D5=500N 0D25=250N / 0D125=125N
Speed at full load	**XXX**	2=2mm/s
Input voltage	**XX**	24 = 24VDC / 12 = 12VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H = H direction / V=V direction / 0=Standard
Color	**X**	G = silver gray
End clevis specification	**XXX**	37 = W-type end clevis, hole diameter 8.0 38 = W-type end clevis, hole diameter 6.5
End clevis material	**X**	L = Aluminium alloy / G=Cast steel integrated End clevis
Top clevis specification	**X**	F46: hole diameter 6.5, with ⌀20 inner tube, aluminum alloy 51: D-type top clevis, M8 internal thread, ⌀10 hole, the hole center is 15mm away from the end face A: Not slotted, hole diameter 10.1 0: Front pull internal thread, M20*1, depth 20mm
Brake specification	**X**	0 = Standard
Type of plug and cable	**XX**	02 = 4-pin DIN plug 24 = 5-pin DIN plug
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

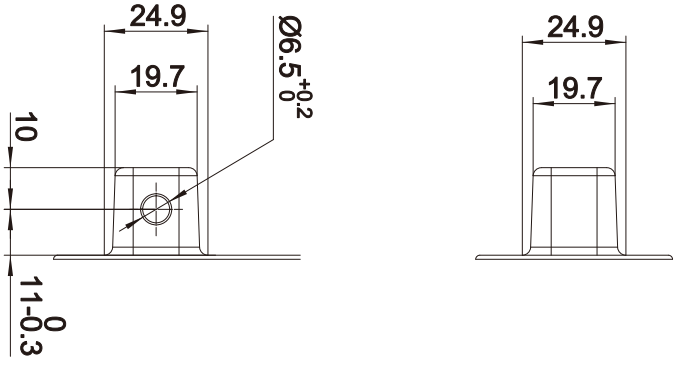
Ordering Details

Dimension drawing of clevis

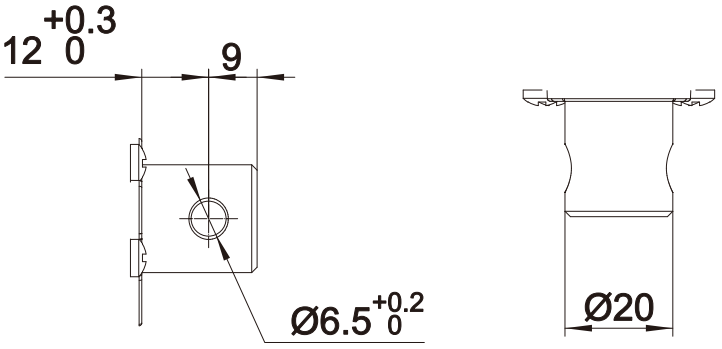
End clevis: 37



End clevis: 38



Top clevis:F46



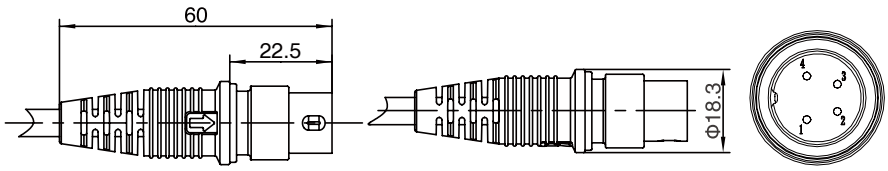
Motor wire

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



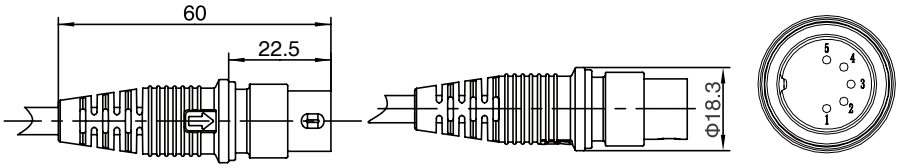


5 pin DIN plug (actuators with Hall sensor)

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





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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