



LINEAR ACTUATOR

JC35DF

JC35DF Linear Actuator

Application field - Medical Line

Preferably in medical bed, nursing bed, operating bed and other fields.

JC35DF is widely used with high performance and strong design. It has following specifications: JC35DF-6000N(push), JC35DF-4000N(push), JC35DF-3000N(push), JC35DF-2000N(push), JC35DF-1500N(push), JC35DF-1000N(push), JC35DF-500N(push). JC35DF is characterized by large load capacity, strong design, low noise and high IP grade. It is widely used in medical bed, nursing bed, operating bed and other fields.



Stock Code: JC35DF-6-3-24-50-235-4s-H-G
JC35DF-6-3-24-100-285-4s-H-G
JC35DF-6-3-24-150-325-4s-H-G
JC35DF-6-3-24-200-385-4s-H-G
JC35DF-6-3-24-250-435-4s-H-G
JC35DF-6-3-24-300-485-4s-H-G
JC35DF-6-3-24-400-595-4s-H-G
JC35DF-6-3-24-500-695-4s-H-G
JC35DF-6-3-24-600-795-4s-H-G

Special Product

JC35DF-6-3-24-120-303-4s-H-G
JC35DF-3-6-24-300-485-4s-H-G

Features And Options

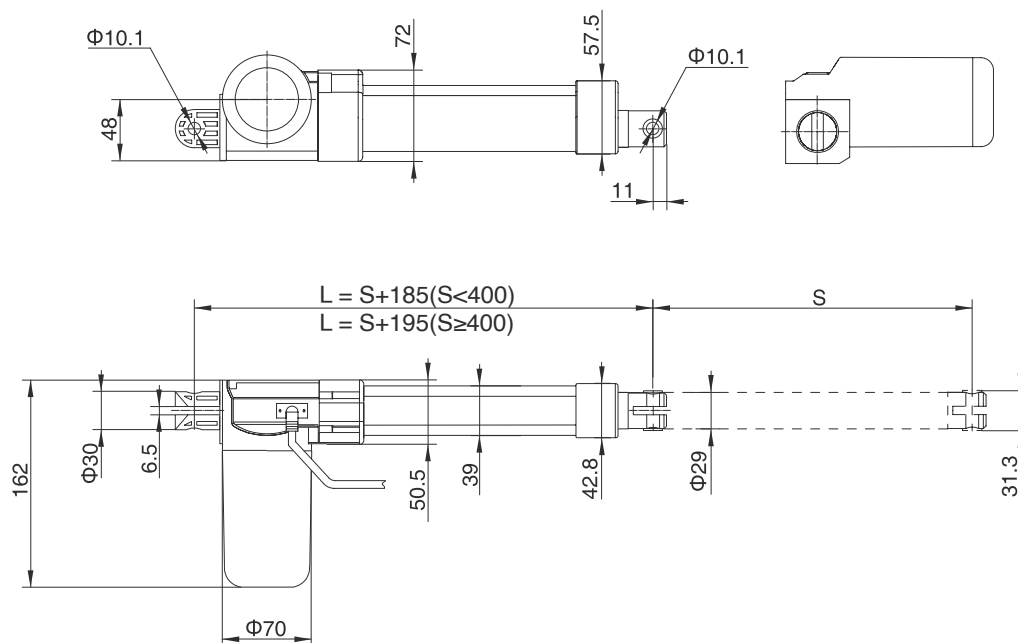
Load in push(N):	6000 4000 3000 2000 1500 1000 500
Colour:	Gray / Black
IP Grade:	Max. IP66
Stroke Length:	6000N: 50-250mm (in steps of 4mm) 2000N: 50-600mm (in steps of 4mm) 4000N: 50-400mm (in steps of 4mm) 1500N: 50-600mm (in steps of 4mm) 3000N: 50-400mm (in steps of 4mm) 1000N: 50-600mm (in steps of 4mm) 500N: 50-600mm (in steps of 4mm)
Installation Dimensions:	L=235 (S≤50) L=S+185 (50<S≤400) L=S+195 (400<S≤600)
Noise Level:	≤48dB (environmental noise≤40dB)
Optional:	Hall Sensor, Only Push No Pull, Reed switch
Limit Switch:	Built-in (electrical)
Weight:	About 1.5kg (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

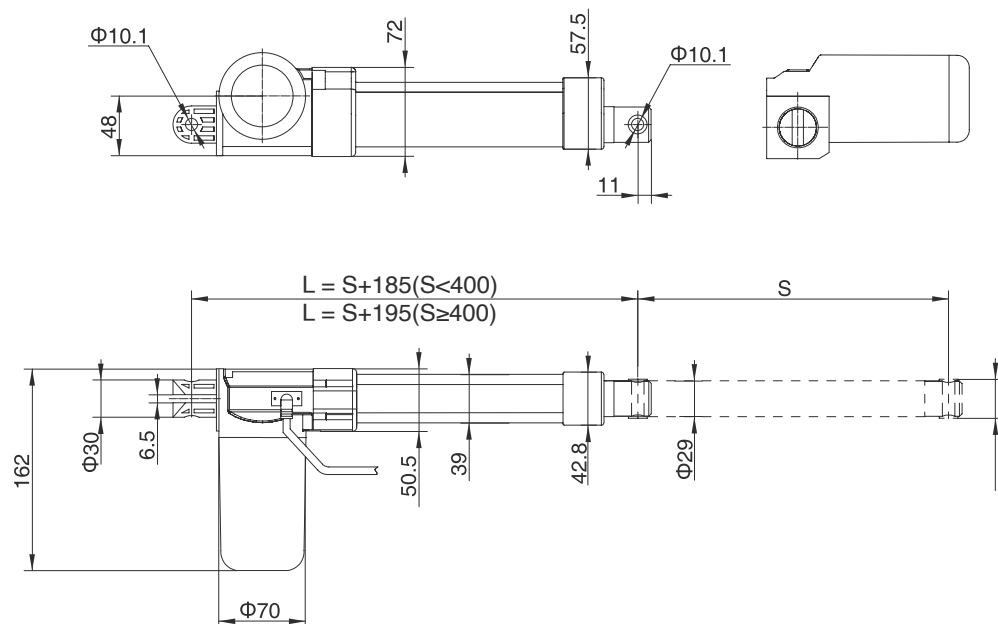
Duty Cycle:	10%, max. 2min.continuous working and 18 min.off
Operating Temperature:	+5 °C to +40°C
Reserve Temperature:	-10°C to 50°C
Supporting Control Box:	match with JIECANG control box
Relative Humidity:	20% to 90% at 30 °C, non-condensing
Atmospheric Pressure:	700 to 1060hPa

Dimension Drawing

Top clevis D, end clevis D



Top clevis A, end clevis D

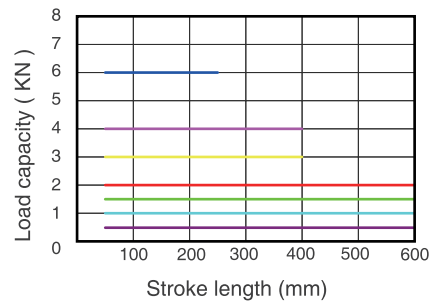


Technical Data-Standard Value

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	4	6000	4000	6000	5.5/3	≤ 4.5
29	4	6000	4000	6000	6.7/3.8	≤ 4.5
24	5	4000	4000	4000	6.8/4	≤ 4
29	5	4000	4000	4000	8.2/5.2	≤ 4
24	7.5	3000	3000	3000	10.2/6	≤ 4
29	7.5	3000	3000	3000	12/7.5	≤ 4
24	5	2000	2000	2000	13.6/9	≤ 4
29	5	2000	2000	2000	16/11	≤ 4
24	7.5	1500	1500	1500	20.5/13	≤ 4.5
29	7.5	1500	1500	1500	25/16.5	≤ 4.5
24	12	1000	1000	1000	33/22	≤ 4
29	12	1000	1000	1000	40/26	≤ 4
24	16	500	500	500	44/25	≤ 4
29	16	500	500	500	53/36	≤ 4

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

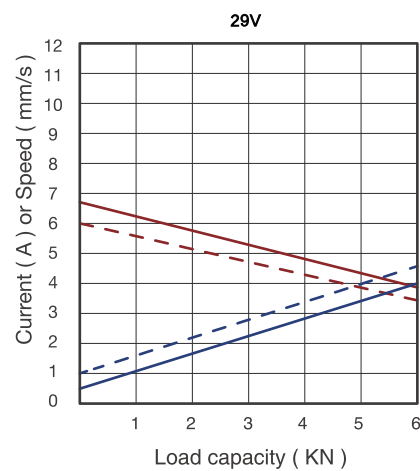
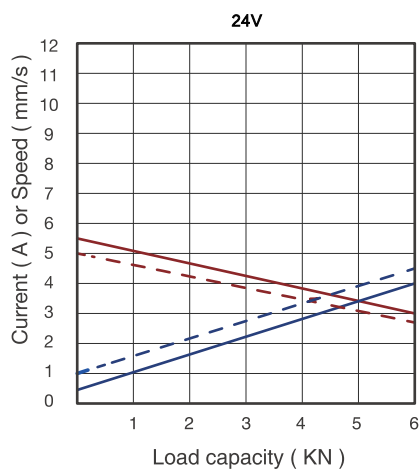
Diagram of relationship between stroke length and load



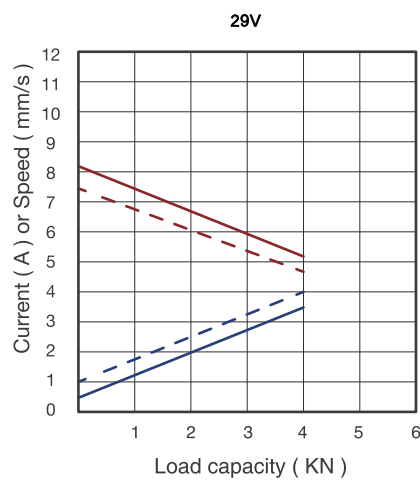
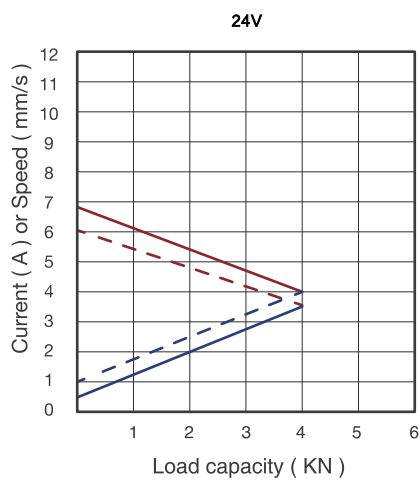
Characteristic Curve

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

6000N

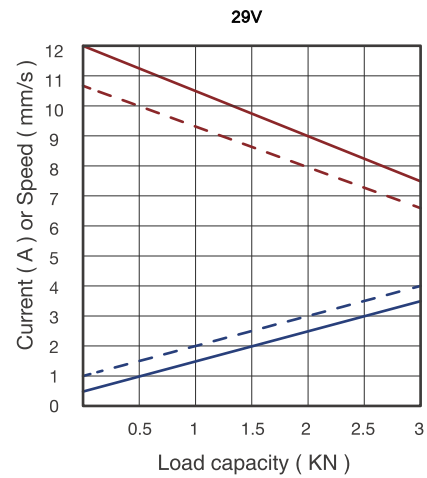
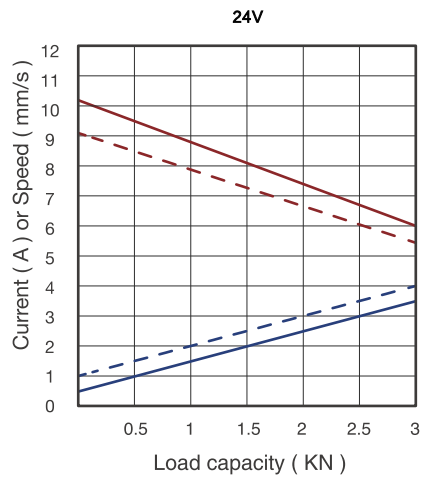


4000N

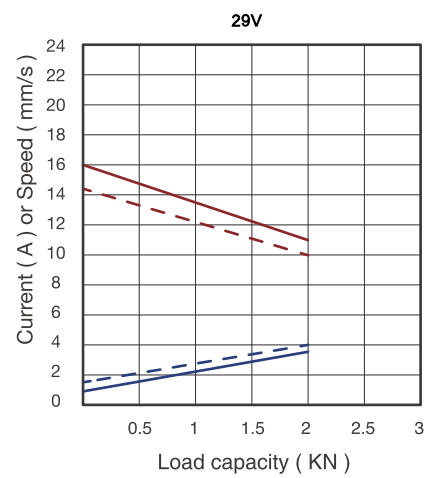
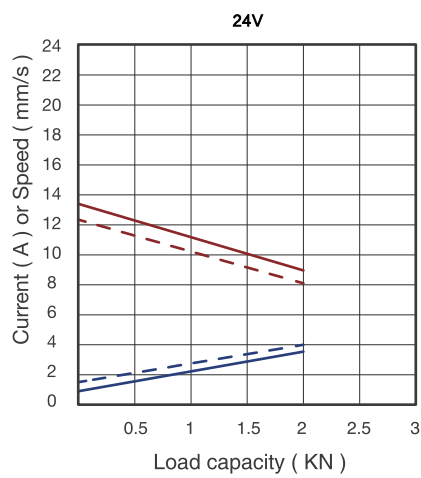


3000N

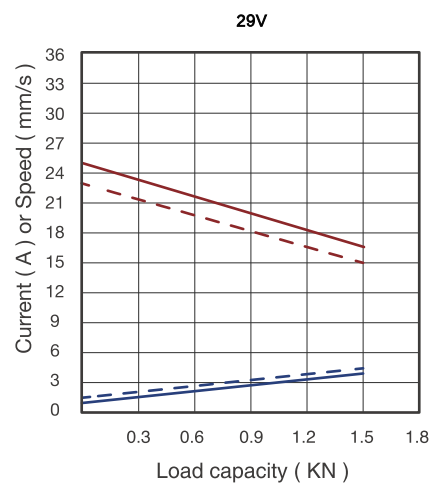
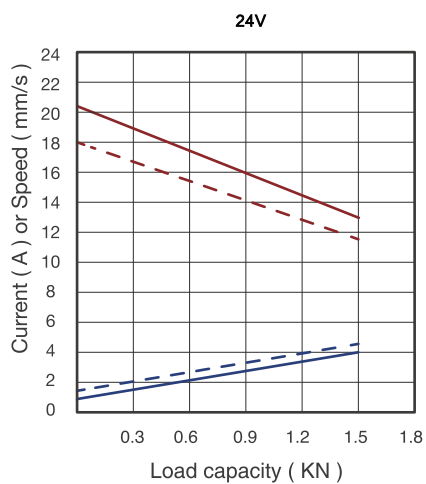
Typical speed —
Min. speed - - -
Typical current —
Max. current - - -



2000N

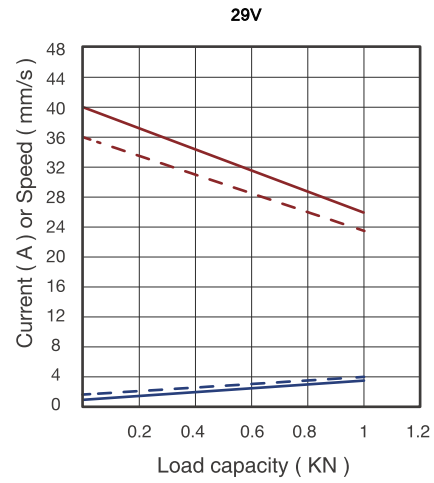
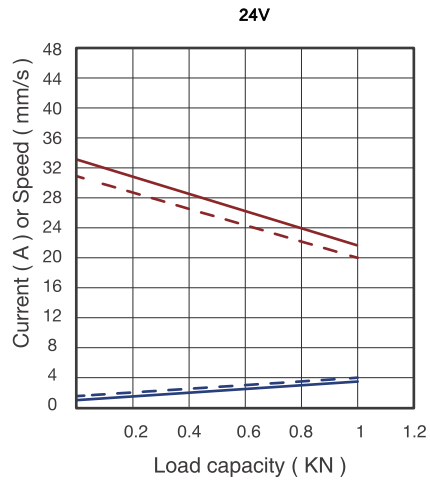


1500N

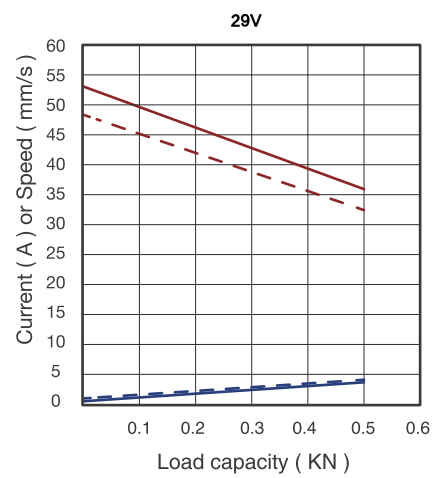
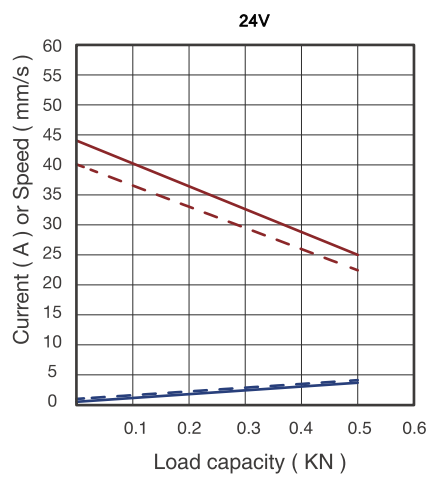


1000N

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



500N



Ordering Examples

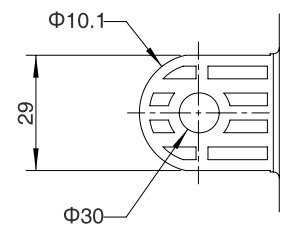
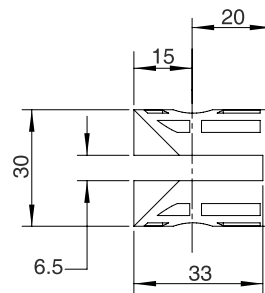
Take **JC35DF06324150/335HGDZD2022D0** for example

Model	JC35DF	
Optional features	X	0 = Standard / P = Only push / Y = Hall sensor / R = Reed switch
Load in push	X	6 = 6000N / 4 = 4000N / 3 = 3000N / 2 = 2000N 1D5 = 1500N / 1 = 1000N / 0D75 = 750N
Speed at full load	X	3 = 3mm/s 4 = 4mm/s 6 = 6mm/s 9 = 9mm/s 13 = 13mm/s 22 = 22mm/s 25 = 25mm/s
Input voltage	24	24 = 24 VDC
Stroke length/ Installation dimension	XXX/XXX	Stroke length = XXX Installation dimension = XXX
Clevis directions	X	H = H direction / V = V direction
Color	X	G = Grey / B = Black
End clevis specification	D	D = Slot 6.5, hole diameterΦ10.1
End clevis material	Z	Z = Zinc Aluminum alloy
Top clevis specification	X	A = Without slot, hole 10.1 with bushing D = Slot 6.5, hole 10.1 with bushing
Brake specification	X	0 = No brake 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

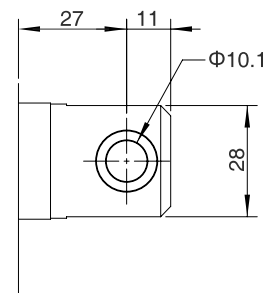
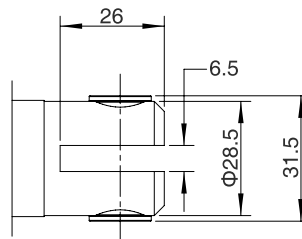
Ordering Details

Dimension drawing of clevis

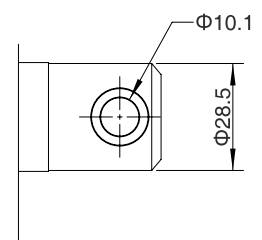
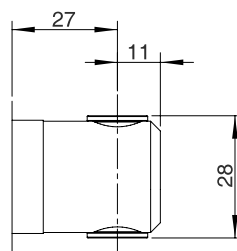
End clevis: D



Top clevis: D

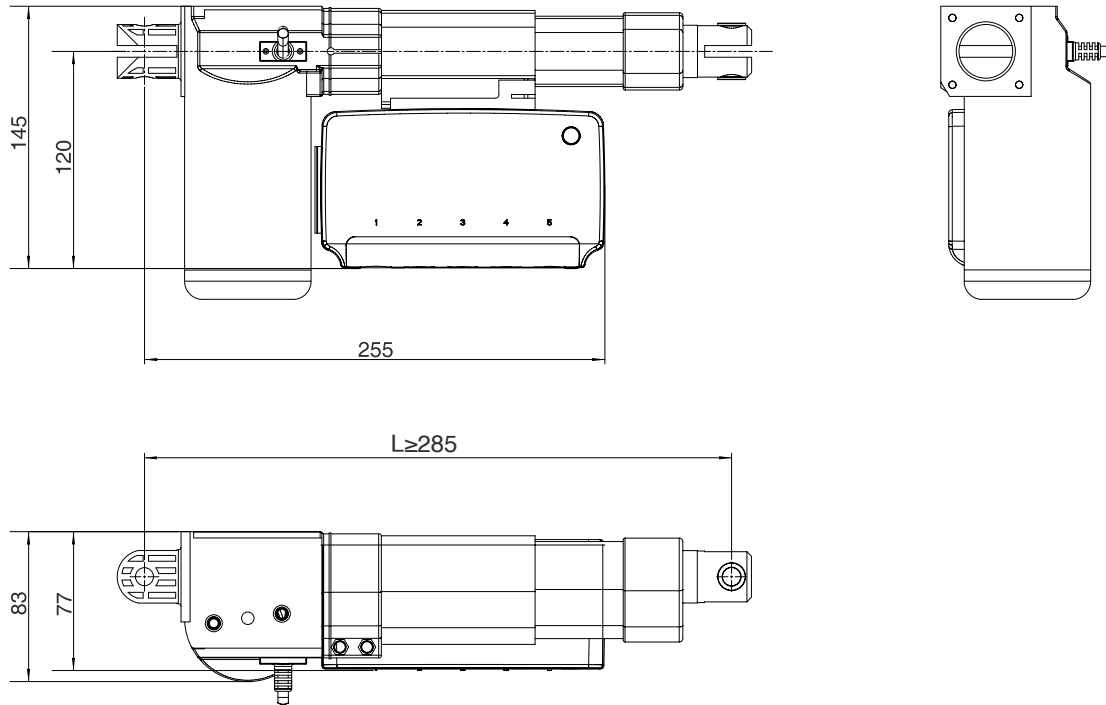


Top clevis: A



Dimensions JC35DF with control box

JCB35Q install on JC35DF

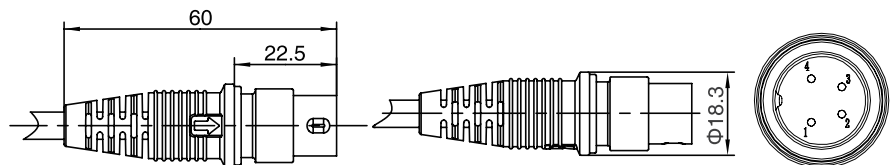


Motor wire

4-pin straight plug (Standard actuators)

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

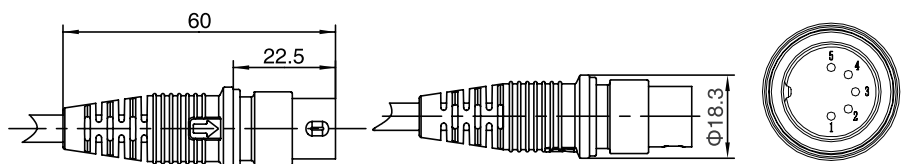
Pin	Color	Function
1	NC	Not connected
2	Brown	power with positive voltage, actuator going down
3	Blue	power with positive voltage, actuator going up
4	NC	Not connected
Outer Circle	NC	Not connected



5 pin DIN plug (actuators with Hall sensor)

Matching control box :
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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