JCB35R Control box

Application field - Medical Line
preferably in hospitals and nursing beds, operation tables.



The control box JCB35R was introduced to achieve a powerful and optimized solution for customers looking for intricate systems.
Utilizing existing system, JCB35R is also available for CAN bus technology, expanding functions of the whole systems.Powerful and light SMPS of 200W and exchangeable power cables make it easy to exchange cables due to wear and ensure worldwide compatibility.
Parallel driving between actuators are also can be achieved by control box JCB35R.

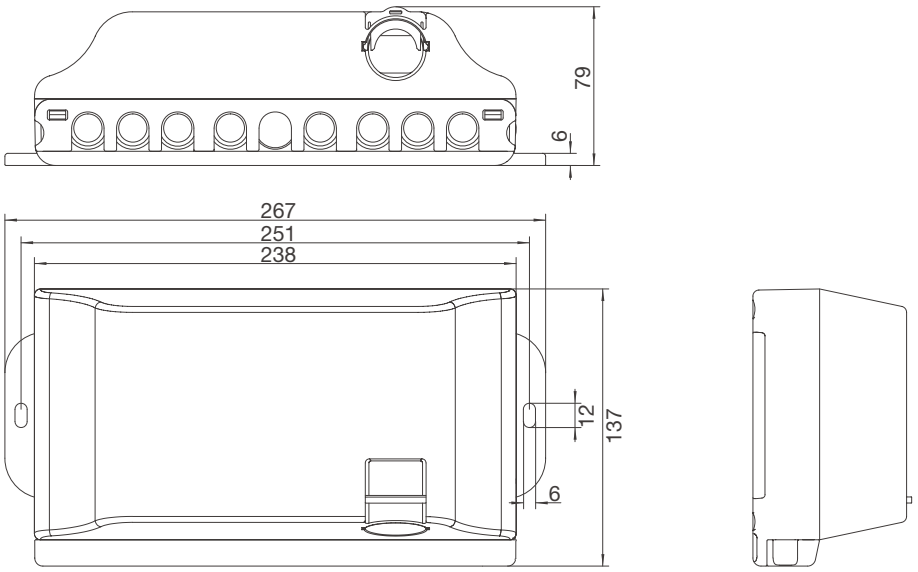
General Features

Power:	Input 100-240 VAC,50/60 HZ;Rated output 200W and 320W under working mode
Power Indicator:	Yes
Actuator Port:	Max. 7 channels
Hand Control Port:	Max. 2 channels
Battery Port:	1 channel, 6 Pin Din connector
Standby Power Consumption:	Maximum 1w (230v)
Colour:	Gray I Black
Control Concept:	Relay, service life exceeds 20000cycles
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off (180wat25c for 120 seconds)
Weight:	0.9kg
Protection Class:	Max.IPX6
Max. Current Of Single Channel:	7 ± 0.5A
Single Channel Max Current:	Yes. Ensuring max. power operation and limit max. output power.
Safety Protection:	SMPS overheat protection / over-current protection
Safety System:	Bed frame via screws
Pull-out Protection:	Yes
Approval:	IEC60601-1 edition3.1 | EMC: IEC60601-1-2 EN60601-1-2: 2015 ANSI/AAMI ES60601-1 | CSA CAN/CSA-C22.2NO. 60601-1:14

Usage

Operating Temperature:	+5 °C to +40°C
Storage Temperature:	-10°C to +50°C
Relative Humidity:	20% to 80%, non-condensing
Atmospheric Pressure:	700 to 1060 hPa
Altitude:	Max. 3000m

Dimensions

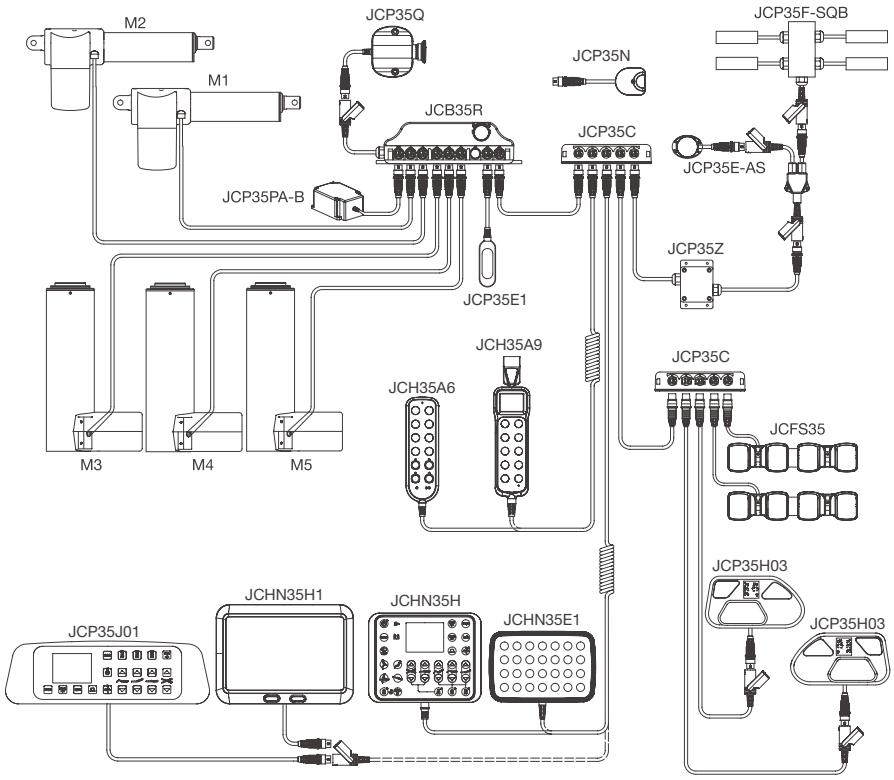


Ordering Key

Take **JCB35RAM43GR00861000314** as an example

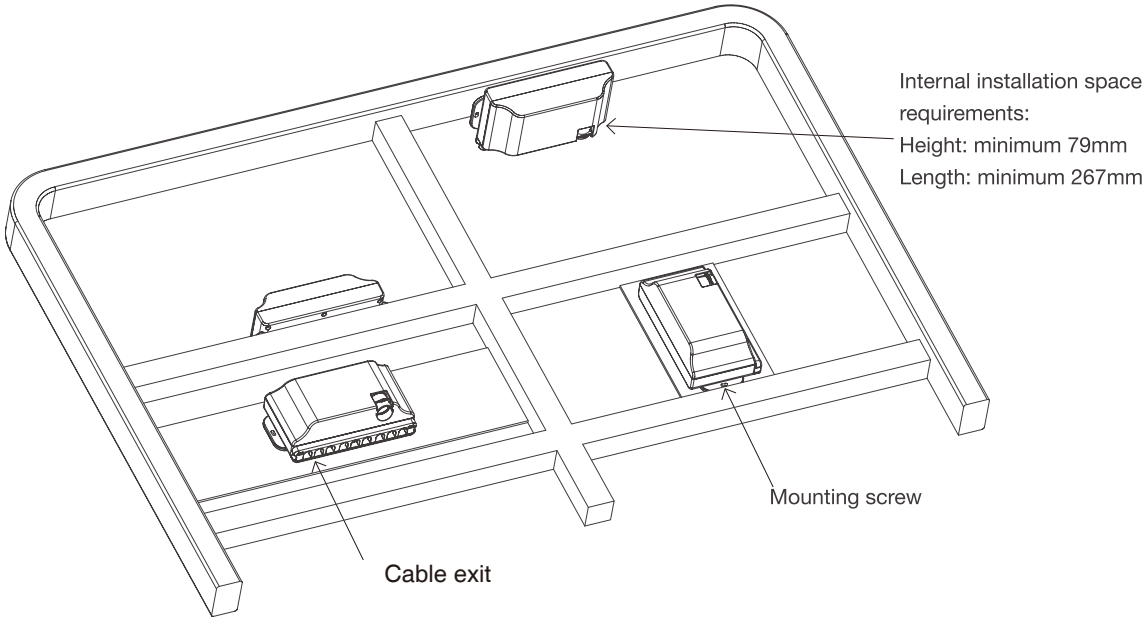
Model	**JCB35R**	
Extension features	**X**	A= with battery function | M= with microchip AM= battery function+ microchip
Actuator channel	**X**	4= 4 channels | 5= 5 channels | 7= 7 channels
Input voltage	**X**	1 = 110VAC / 2 = 220VAC or 230VAC or 240VAC 3 = 110VAC-240VAC / 4 = 10-20VDC (including 20) 5 = 20-30VDC (including 30) / 6 = 30-42VDC (including 42)
Colour	**X**	G = Gray / B = Black
PCB code	**XXXXX**	R0086= Specific code
Rated power	**XXX**	100=100W/ 200=200W
Optional function	**XX**	03= with earth wire 14= additional cable out for emergency stop

Diagram-system overview



Installation

Installing JCB35R to the frame



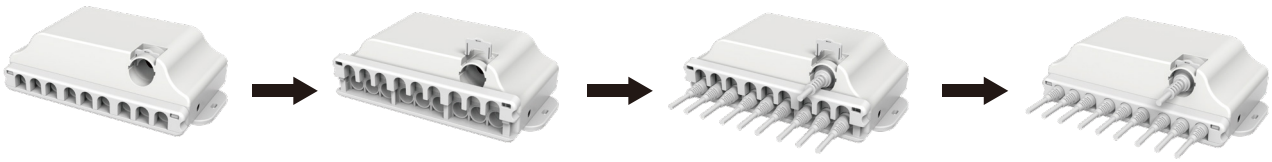
It is recommended to install the JCB35R where the water can be drained.
Suggested screw installation torque: 0.6Nm +/-0.1
JCB35R can be installed to the bed frame or any other applications according to one of the following installation instructions:
1) M5 screw+ M5 screw nut. Place M5 screw nut on the screw holes on the slide-on bracket, and fix it with M5 screws.
2) Fix the slide-on bracket with M5 screws + flat washer+ screw nut.
3) Fix the slide-on bracket to the frame with tapping screws.

Pull-out Protection and Cable Management

Linear actuator cable locking

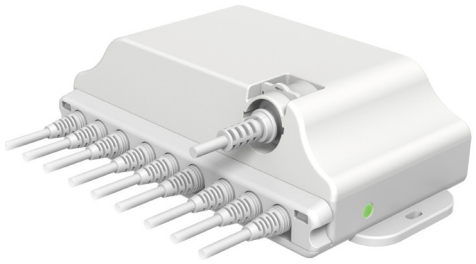
The control box JCB35R has a uniquely designed cable cover. When it is equipped, it acts as an integrated actuator cable lock.

1. Connect the actuator with the control box
2. Equipping the cable cover until it snaps into place.(please refer to the below illustration)



LED indication

JCB35R has a green LED power indicator.
When JCB35R is successfully connected to the power, the LED indicator is on.



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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