JCB35T1 Control box

JCB35T1/JCB35T1-M is mainly designed for the medical and care lines.
JCB35T1 is equipped with suitable and optimized SMPS (switching mode power supply) for worldwide use, and it has outputs for a hand control port, max. four actuators channels (The fourth channel can be changed to under-bed light) and a battery port.
JCB35T1 has an elegant and compact design. The slide-on bracket of the housing can be locked to the frame by screws, or can be fixed to several actuators by special mounting bracket.
Without relay noise, it offers a preferable experience for many demanding applications.



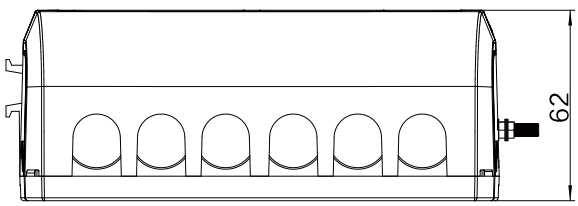
General Features

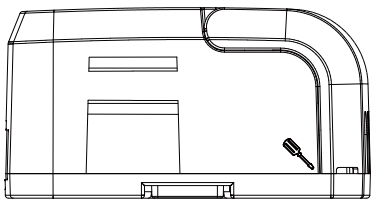
Power:	Input 100-240 VAC, 50/60 Hz; Rated output power 72W and 180W under working mode
Power Indicator:	Yes
Actuator Port:	Max. 4 channels, 4 or 5 Pin Din connector
Hand Control Port:	1 channel, 8 Pin Din connector
Battery Port:	1 channel, 6 Pin Din connector (output 1mA when actuator does not work)
Standby Power Consumption:	Max. 1W
Colour:	Gray
Control Concept:	H-bridge(no relay noise), the service life exceeds 20,000 cycles
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. Off (180W at 25°C for 120 seconds)
Net Weight:	0.6kg
Compatibility:	Supporting actuator and column with built-in electronic limit switch
Battery Management:	The power supply of the battery can be cut off at low voltage, and there is charge and discharge management inside the battery
Protection Class:	Max.IPX6
Max. Current:	Total 10A for all channels
Power Management:	Yes. Ensuring max. power operation and limit max. output power.
Safety Protection:	SMPS overheat protection / overheat protection
Installation:	By screws on slide-on brackets/ by special mounting brackets to several actuators
Pull-out Protection:	Yes
Approval:	IEC60950 KN32 KN35

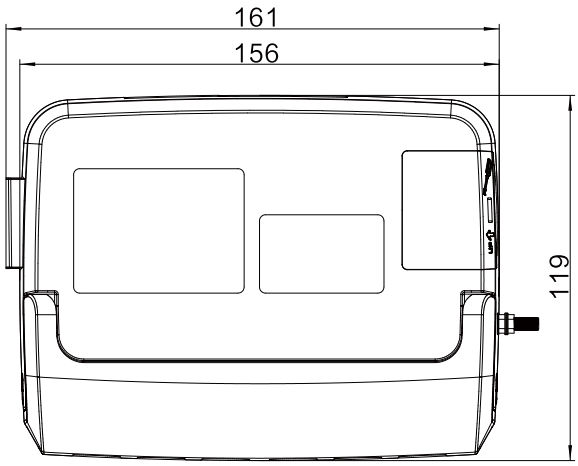
Usage

Operating Temperature:	+5 °C to +40°C
Storage Temperature:	-10°C to +50°C
Relative Humidity:	20% to 80%, non-condensing
Atmospheric Pressure:	860 to 1060 hPa
Altitude:	Max. 2000m

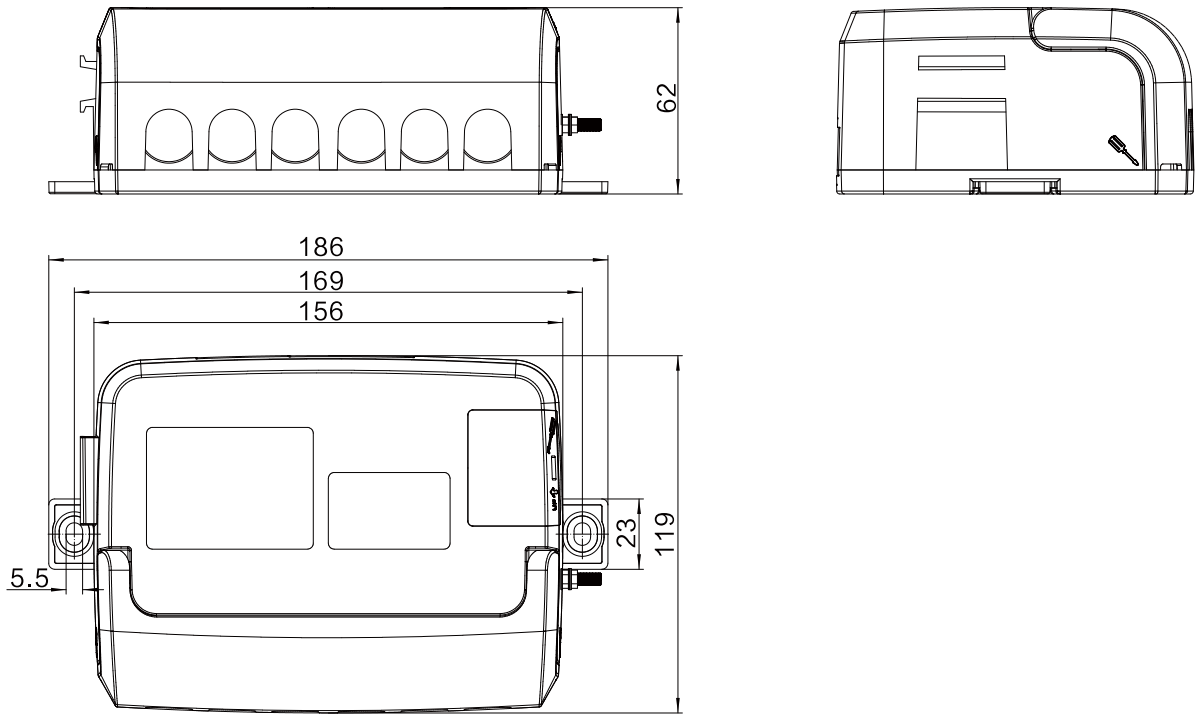
Dimensions







Dimensions when slide-on bracket fully extends

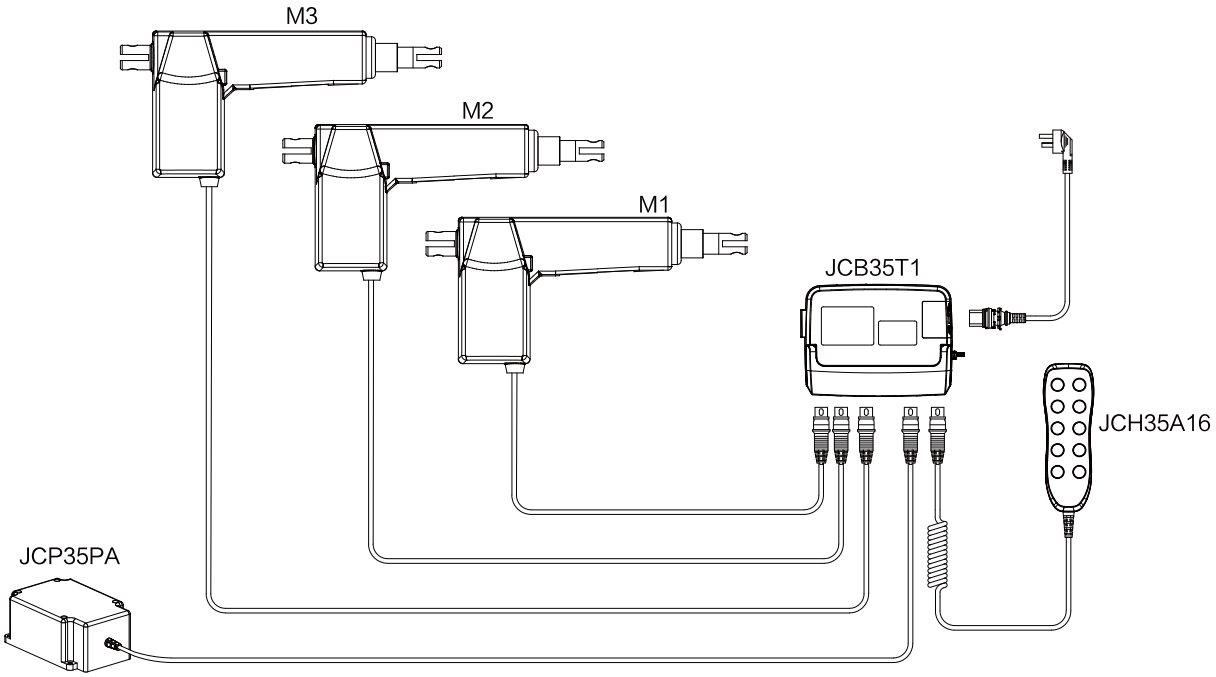


Ordering Key

Take **JCB35T1A43GT002872100** as an example

Model	**JCB35T1**	
Extension features	**X**	A = With Battery function / M = With microchip
Actuator Channel	**X**	3 = 3 Channels 4 = 4 Channels
Input voltage	**X**	2 = 220VAC or 230VAC or 240VAC 3 = 110-240VDC
Colour	**X**	G = Gray
PCB code	**XX**	T0028 = specific code
Rated power	**XX**	72 = 72W / 100 = 100W
Optional features	**XX**	10 = with Earthing stud

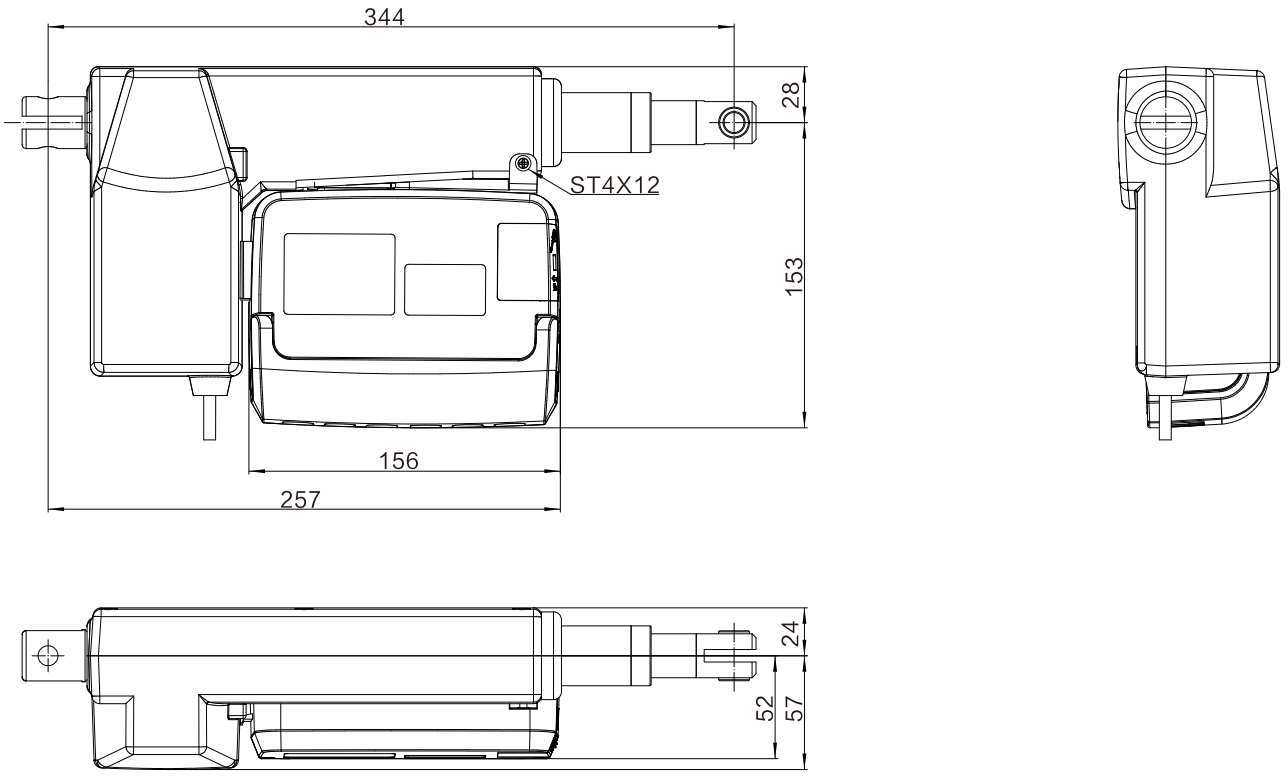
Diagram-system overview



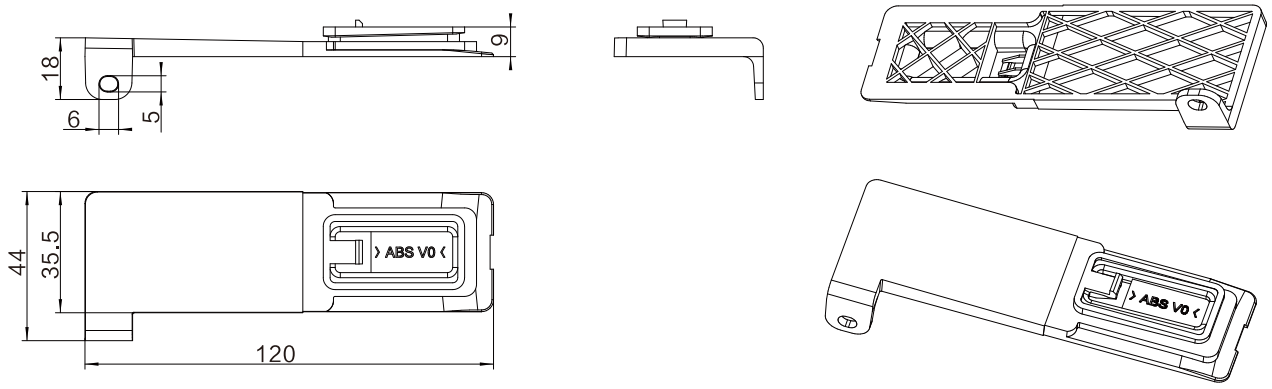
Installation

JCB35T1 can be installed with several actuators like JC35B7 via special mounting brackets, or to frame via screws.

Installing with actuator JC35B7



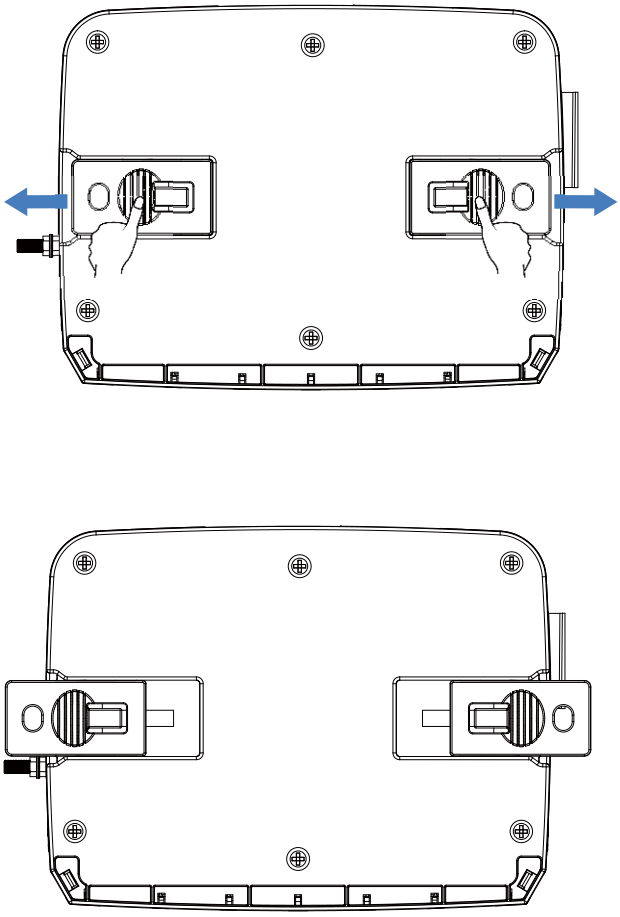
Mounting Bracket



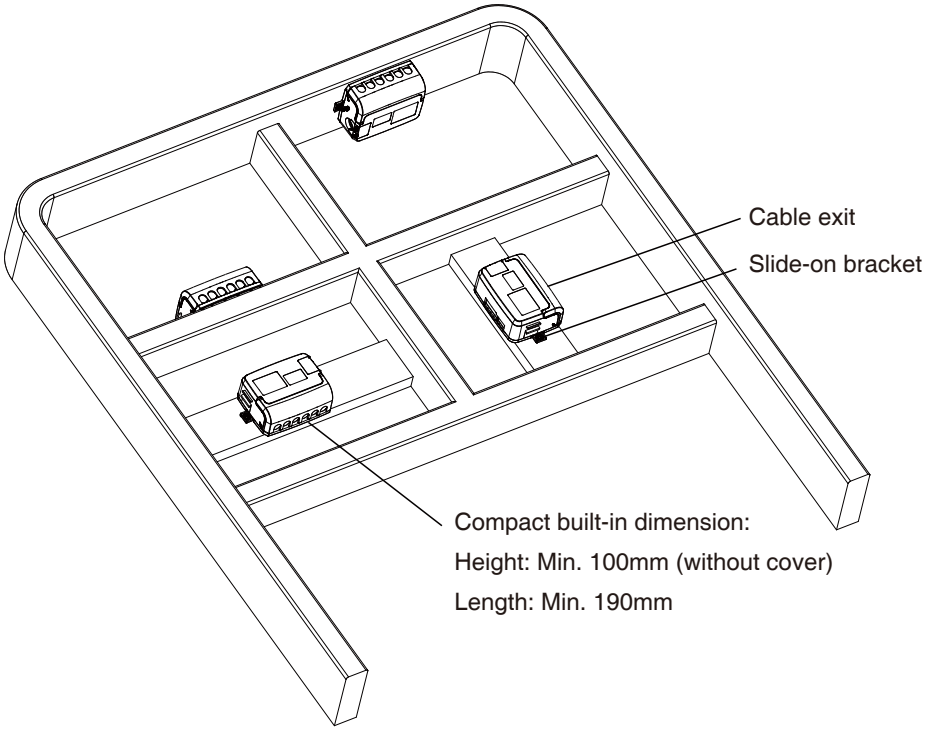
Installing JCB35T1 to the frame

Usage

Horizontally push the slide-on bracket until the mounting screw holes are available. Please refer to the below illustration.



Installing JCB35T1 to the frame



It is recommended to install the JCB35T1 where the water can be drained.

Suggested screw installation torque: 0.6Nm +/-0.1

JCB35T1 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.

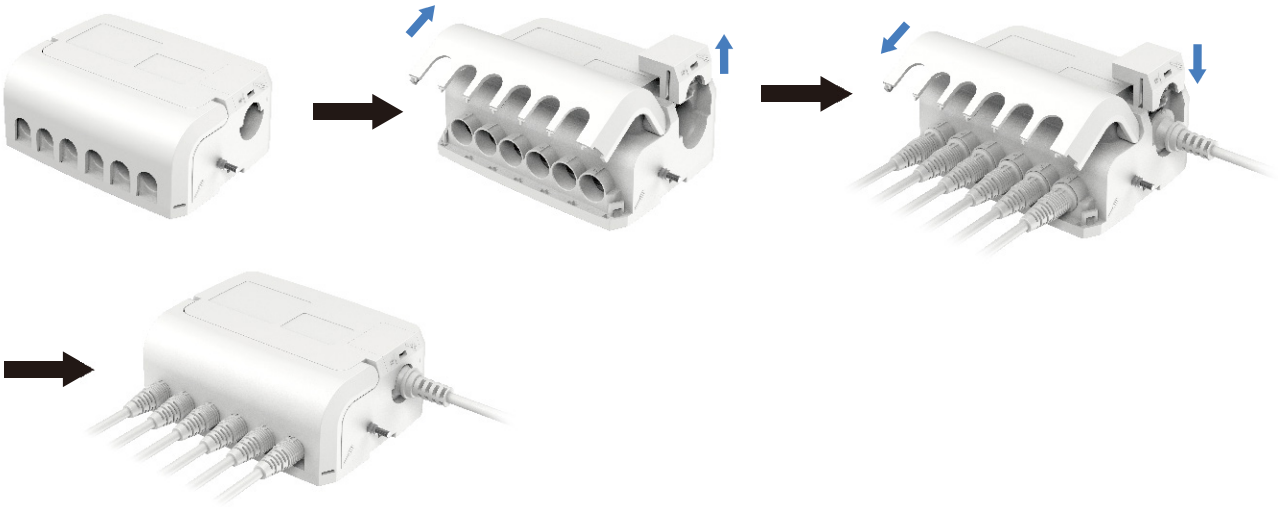
3) Fix the slide-on bracket to the frame with tapping screws.

Pull-out Protection and Cable Management

Linear actuator cable locking

JCB35T1 has a uniquely designed cable cover. When it is closed, it acts as an integrated actuator lock.

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



LED indication

JCB35T1 has a green LED power indicator. When JCB35T1 is successfully connected to the power, the LED indicator is on.

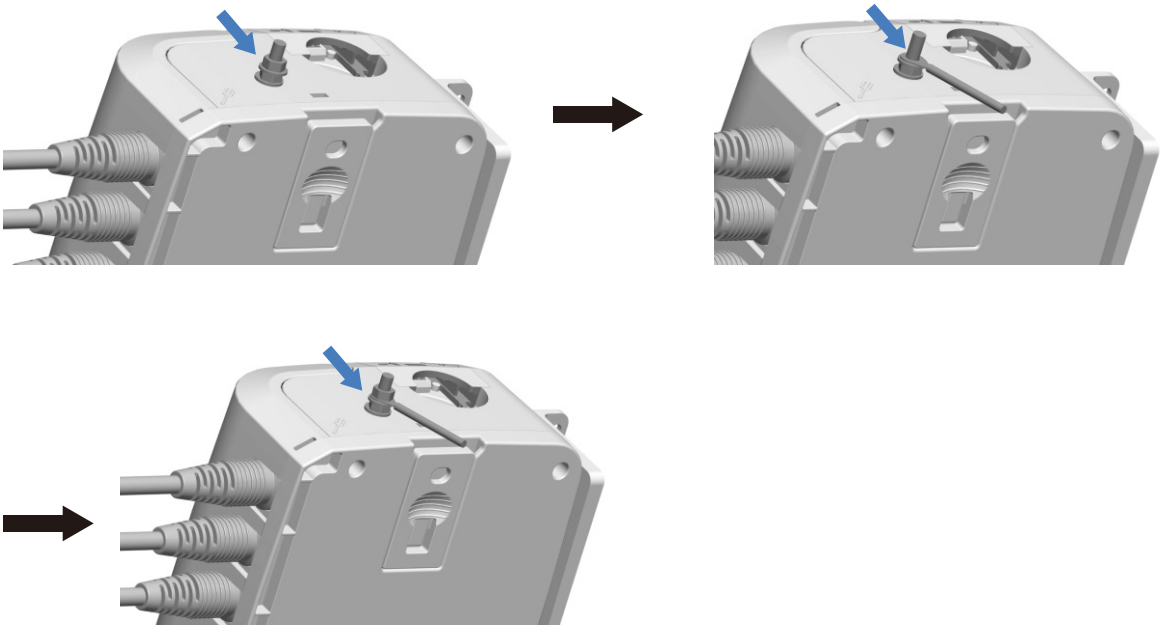


Earth Wire Installation Diagram

Step 1: Release the first nut.

Step 2: Place the earthing conductor on the gasket.

Step 3: Install the nut to the earthing conductor and complete the installation. Recommended torque: 0.2Nm.



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Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

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

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