

Adjustable Power System

Warning:

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Adjustable Power System can be applied on the sofa, chair and adjustable bed in the house, office, hotel and entertainment places. It is of high quality, and it realizes the automation of furniture, and provides a big market for furniture manufacturers.

1. Configuration of the adjustable system

The adjustable system consists of actuator, transformer and remote controller.

1. Actuator

Active ring of the actuator moves back and forth when it's driven by spindle which rotates under the force driven by the spindle guide with power connection. When the actuator is installed on the mechanism, it can drive the mechanism to open and close. The double limit switches help increase the accuracy of the traveling stroke. The quality of actuator is consistent, and it's safe and of high torque and high durability with heavy load capability.

Critical parameters:

Max speed with no load: 19.9 mm/s

Max load allowed: $330 \pm 10\%$ kg

Smallest installation size: 156 mm

Stroke: 333 ± 1 mm

Life of cycles: ≥ 15000

Distance range for effectiveness of remote controller ≤ 4.0 m

2. Transformer

The transformer can be applied on the sofa, chairs and bed together with the JLDQ actuators. The transformer has a shut off function when it's overloaded. The transformer works under the 24v DC. The frequency of transformer receiver is 433.92MHz.

Main technical index:

Input voltage: 120VAC, 60HZ,

Input current: 1A

Output voltage: 24VDC

Output current: 3 A

Working duration: 10% (1 min ON, and 8 mins OFF)

Frequency of receiver: 433.92MHz

3. Remote controller

The remote controller consists of PCB, top and bottom cover and buttons. It activates the movement of the actuator by pressing on the buttons.

Main technical index:

Sending frequency: 433.92MHz

Sending power: <10mW

Sending method: ASK

Battery: 3 pcs of AAA X, 4.5V, 12V

Working current: 3mA

2. Installation:

Press on the buttons of the remote controller, and the active ring on the actuator will move back and forth. Fix the actuator and transformer onto the furniture mechanism, and connect all the parts per picture above. Install the plug, and press on the button of the remote controller.

Safety Points:

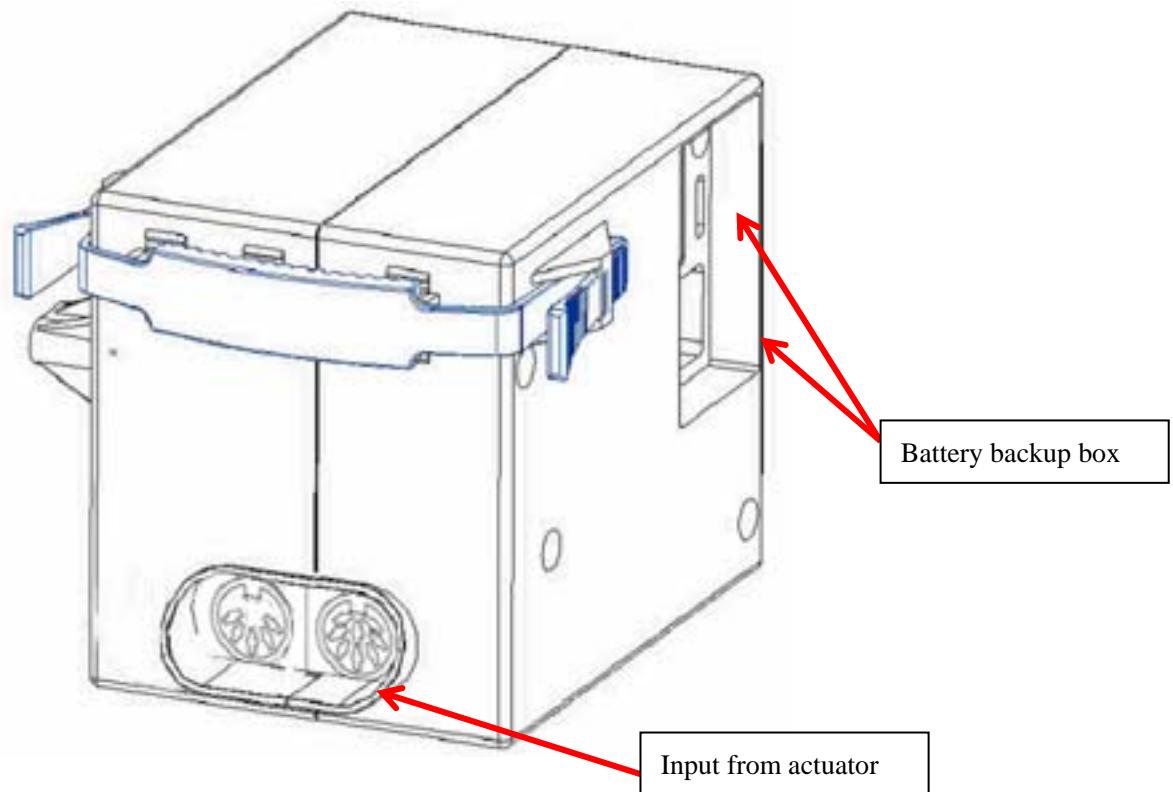
1. Before using the transformer, please confirm the local voltage supplied by your utility provider is the same as the voltage requirement of the transformer.
2. Before using the system, please confirm the proper batteries are applied.
3. Shut off the power before installing or removing the plugs and wires.

4. The transformer can not be used in a humid atmosphere.
5. The transformer operates in a temperature range of 0 to 40°C.

System Configuration



Connection interface



Backup battery

2 pieces of 6-F22 9V square batteries are applied in the backup battery box, so that the reclined mechanism can be retracted when the power is shut off. Please don't use the backup battery to drive the power system as the power stored in the battery is very limited.

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