### 单立柱控制器使用说明书

#### 一、功能简介:

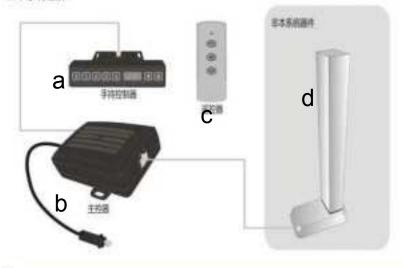
#### 似的单位时的知道, 数条约下标点

- 1、可控他国際的部分
- **企**对银灰压行影响
- 西部位置任金 前中200
- 4 課程后後 ) 別簿
- 5、开始建物、可克

### 二、系统参数:

- A用用: DC29V
- 職入申決:根据效量体定而定、相等使用18A口上回相對
- 电机阻口器大架出电压: DC29%
- 4 中的用门最小的小肉的一4A
- TH语度 0-40°C
- T在原章 20%-30%
- 7. 四極国東: 20 70℃

### 三、系统连接:



## Single column controller instruction manual I.Function introduction

Intelligent single column controller has the following characteristics:

- 1.It can control two motors` output to achieve synchronous operation;
- 2. Showing the operating height every time;
- 3. Four-phase position setting and outage memoty;
- 4.It will rebound when meeting resistance.

## **II.System parameters**

- 1.Input voltage:DC29V;
- 2.Input current: recommending above 1.8A and according to the load;
- 3. Maximum output voltage of motor interface: DC29V;
- 4. Maximum output current of motor interface: 4A;
- 5. Operating temperature: 0~40°C
- 6. Working humidity: 20~90%;
- 7.Storage temperature:20~70°C.

# **III.System connection**

- a. Handheld controller b. Main controller
- c.telecontroller d.Non-part of the system

### 四,电机接口插头定义:



### 五、故障代码及其处理:

1. 被關代斯EYL



手拉器显示6/187为Ev1数牌,也能多代品的表现M1推口通道(亚下亚)也现时题,可能的问题有:来证明 连接匹数的电机,未正确连接集合的霍尔信号板,连接往后线等。



ROBERS . NO "FOR" ERGLE . WITHWARES . BELEBEROKS.



### IV.Motor interfase plug definition:

Motor power:+(-)
Motor power:(+)Hall switch:2ch
Hall switch:GND
Hall switch: 1ch
Hall switch:Vcc

### V.Fault code and its treatment

1.Fault code Err1

When the manual controller shows Er1,it's a foult of Err1.It meas there is something wrong with M1 interface channel (see the following picture). For exemple, motors are not connected in a positive way; Hall sidnal boar is not connected; Paper line, etc.

After the problem is eliminated, presing the "down button" more than 3 secnds to eliminate the fault, and the mathine returns to the reset state.

### 六,系统复位:

1. 株元数(0)

当手控usslift 7657 时(见下图),真要手动操作对整个系统进行复位



2、張行類12

F控機是示观度处于哪个值时(例如复位高度为60CM的系统,见下图),长按"下键"5秒以上。



手控御显示"RST"后松手,之后即可对系统进行复约



3. 類位方法:

当于招籍显示"RST"时(见下提)按注"下键"不要松子



立柱开始规矩、复位速度相对增强,操作的清旨思是否会造成其他拒害,如何异常,立即松开"下键



## **VI.System reset**

1.Prompt reset

When the manual controller shows "RST" (see the following picture), the whole system needs to reset maunally.

2.Line reset

When the manual controller shows the minimum heigh(for example, for a system with a reset height of 60cm, see the following picture), pressing "down button" more than 5 seconds.

When the manual controller shows RST, releasing the hand and starting to reset system.

3.Reset method

When the manual controller shows "RST" (see the following figure), pressing the "down button" and don't let go.

Column began to shorten.the speed could be slow. Observing other damages during operation, if so, let go.

Column began to shorten, when reseting.

#### 立柱接至最低点后,前四梯钳。两上升5-10毫米。



与手拉器显示 "RSF" 消失后时(见下面)。 方可松子,惟位结束,



#### 七、預置目标高度

- 1、报查日标高度数量
  - 系统联络400系度较置存储、数据保存10年以上
- 2、初始發置自标寫度
- 410.現度預置數据,手工預置其它都觀察,全學为關係規度
- 1 研修日に京東鉄塚海田
  - 系统不能体设度推验力能,更的多数设置时,会自动推销团的港县
- 4、授業目标高度操作方法:

任何克度下(整位状态,错误状态下不能进行本操作),均可将当相高理参数授设至1-4号键中去

母 - 技术区高级07日集97日共



唐 安 雄、 原元 347



The column will rise5~10mm after a short time when it reach the lowest point.

After all arrive, rising a small distance.

When the manual controller "RST" disapper (see the following picture), releasing the hand and end at resetting.

## VII.Preset the target height

1. The number of presetting target height:

The system provide 4 sets of target height, all of them can be saved more than 10 years.

2.Initial preset target height:

The 4 sets of target height, all of which are the minimum height before manually preset other parameters.

3. Daleting the date of target height:

The system does not set the erase function separately. Setting the new paremeter of the target height ,the old one will be automatically erased.

4. The way of presetting target height:

At any height(reset state, wrong state unable to perform this operation), can set the paremeter into 1~4 keys.

For example:Set the curren height of 97 to key 2 Press "S" to display "SET"

2019年,在"SET" 跨铁层接"2



豊宗 3-2 預業拡充、宣誓此制度示



#### 5、使用规数目标周围的方法

任何高度下(量位效应,健康状态下不能进行多操作),均可利用1-4号键,快速到达然直归标高度 6周度度已经行于该程音归标高度附近,则不到方任何20代。

#### 八,改变高度操作:

#### 1. 立任押报

 李昭國是作:非時"上"朝操作立柱學表記行,並近行發展現后自动停止。此段號为点过設課,松手巴即为 发出身上命令。松开程號四不会立即停止。马上转为或進退行一小段逐進后停止。



2),面把機械作、利用"上"使物作立柱中长运行。我还行程板既后自动停止、成束键为自点的连续,长手仍不 富治學止命令。再次按下任意能后第治學止命令。第治學止命令若不会立即學止、马上转为減速回行一小板延伸 后等止。



#### 2. 立柱網

 李松明接件、利用"下"朝接作立柱相称运行、更达行前极限后边场上、此规键为点过较键、松手巴即为 发生亲止命令。松开拓键标不会立即停止、乌上转为或排压行一小排挥集后停止。



In 2 seconds, pressing 2 before "SET" disappears Displaying "S-2" means setting over.

5. The way of using target height:

At any height(reset state, wrong state unable to perform this operation), can quickly reache for the target height by 1~4 keys.

## VIII. The way to change height

- 1.Colunm elongation
- 1). Operating by *Handheld* controller: Using "up button" to achieve longation operation, stopping when travel limit. Releasing hand is the order to stop but not quickly. It stops after a short distance.
- 2). Operating by *tele*controller: Using "up button" to achieve longation operation, stopping when travel limit. Releasing hand is not the order to stop, passing any key again will stop, but not quickly. It stops after a short distance.
- 2. Column shortening
- 1). Operating by *Handheld* controller Using down button to achieve shorten operation, stopping when travel limit. Releasing hand is the order to stop but not quickly. It stops after a short distance.

2),遥控器操作:利用"下"键操作立柱缩短运行,则达行程极限后自动停止,此按键为非点动按键,松手后不 发出停止命令,再次按下任意键后发出停止命令,发出停止命令后不会立即停止,马上转为减速运行一小段距

1.Do not pass the "up button" in 3 seconds repowering

- 2. Do not release when passing the "up button"
- 3. The buzzing sound for success of matching is:di~~di~~di~~di~~di~~
- 4.Releasing after liseaning the right buzzing sound

2,对码方式

九, 遥控器配对操作

在配对窗口期内,长按遥控器"上"键,等待提供蜂音长间隔提示4次,短间隔提示3次,对码完成,方可松开"上"键,此后控制系统就会识别该遥控器的编码



#### 作場元十二

- ) 上电3秒内,是配对窗口隔,过时不供
- ) 被性"上"键,不整松手
- 3)能用如果的發音展示可使用,將一直一直一直一直一直
- (新聞正傳聲音樂元四、才可以形

### 十,缓升缓降:

所有的模式下的电机启停都采用速度渐变的方式,即缓升缓降,为避免启停时对立柱造成比较大的冲击。

### 十一,遇阻回退:

除复位状态外,正常工作过程中,机械结构遭遇到负载的突变,将会引起控制器对其进行回退操作,以助止 外界造成伤害。

重要提示:复位时,请特别观察桌子下方是否有可能造成伤害的人或物体!

2). Operating by *tele*controller: Using "down button" to achieve longation operation, stopping when travel limit. Releasing hand is not the order to stop, passing any key again will stop, but not quickly. It stops after a short distance.

# IX.Telecontroller operation

1.Matching window period

Matching window period is repowering after 3 seconds. There will be buzzing sound when the period stop.

2.Right code

In matching window period, passing the "up button" longly and waiting for 4 long and 3 short intervals of buzzing sound, it means righting code is over.

### X.Slow rise and fall

In all modes, the motor starts and stops in a new speed change mode, named slow rise and fall, to avoid large impact for desktop when starting and stopping.

# XI.Backtracking when encountering obstacles

In addation to the reset state, when working ,the mechanical structure encounter a sudden changes from loading ,which will cause the contriler to carry out a fallback operation to prevent external sound of injury.

P:When resetting, please pay special attention to whether there are people or objects under the table that may cause harm.