

# User Manual-KA60

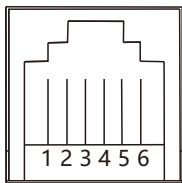
## Feature

- Built-in brand-new electromagnetic clutch, with precise planetary reduction gear, operating noise no more than 25dB.
- Automatic find the trip point for the curtain shut down softly, with pull-start function.
- A variety of controlling modes: wireless remote control、control wiring mode、 intelligent low-voltage、 AC control 、 bus control .
- AC power input, operates more steady and reliable, horizontal pull reaches 8KG, loadcapacity is 50KG.
- Applies to all medium straight、 curved drapery curtain.

## Specification

|                   |                           |
|-------------------|---------------------------|
| Rated voltage:    | AC100-240V 50Hz           |
| Rated power:      | 50W                       |
| Rated torque:     | 1.2Nm                     |
| Rated speed:      | 90RPM                     |
| Line speed:       | 14cm/s                    |
| Insulation class: | E                         |
| Protection class: | IP41                      |
| HM700A:           | Built-in receive motor    |
| HM700C:           | No RF receiver AC control |

## Wiring Diagram



- RJ11 6P Control Port
- L1: COM/GND
  - L2: CLOSE(3-wire/4-wire system)
  - L3: Single button control;
  - L4: Open(3-wire/4-wire system)
  - L5: Open(1-wire/2-wire)/RS485-B
  - L6: CLOSE(1-wire/2-wire)RS485-A

Contrl instruction of 1-wire/2-wire system

short-circuit L1L5, the motor is turning to open the curtain;

short-circuit L1L6, the motor is turning to close the curtain;

short-circuit L1L5 or L1L6, the motor stops.

Contrl instruction of 3-wire/4-wires

short-circuit L1L4, the motor is turning to open the curtain;

short-circuit L1L2, the motor is turning to close the curtain;

short-circuit L1L2L4, the motor stops.

Single Button control instruction

short-circuit L1L3, the motor is turning to open the curtain;

short-circuit L1L3 second time, the motor stops;

short-circuit L1L3 third time, the motor is turning to close the curtain;

short-circuit L1L3 fourth time, the motor stops;

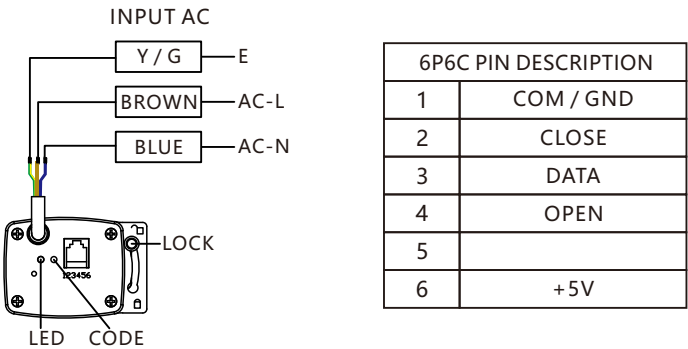
It circulates same(OPEN,STOP, CLOSE,STOP) when you short-circuit more times.

RS485 Control

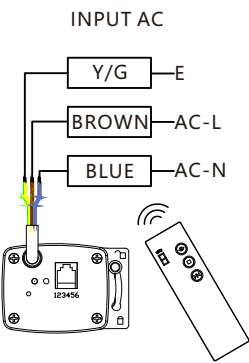
Connect the L5L6 to the RS485 port.

Attention: Special code from factory,instruction required before mass production

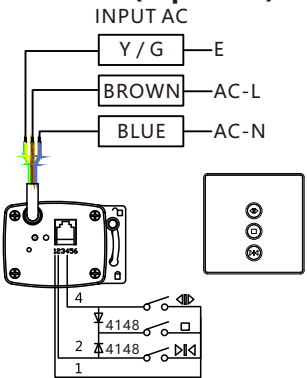
### Built-in receiver (Only KA60A)



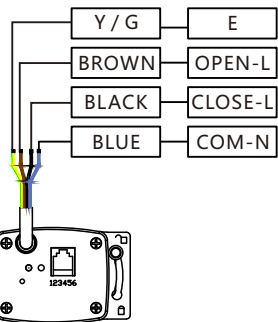
### Remote control



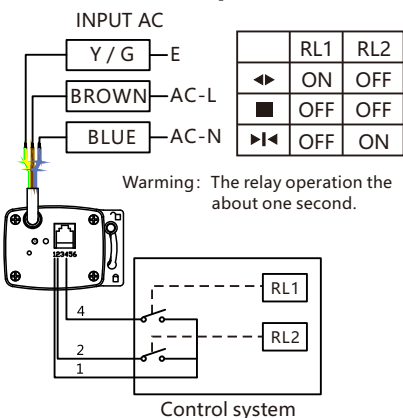
### KA60A Dry contact control ( Option 1)



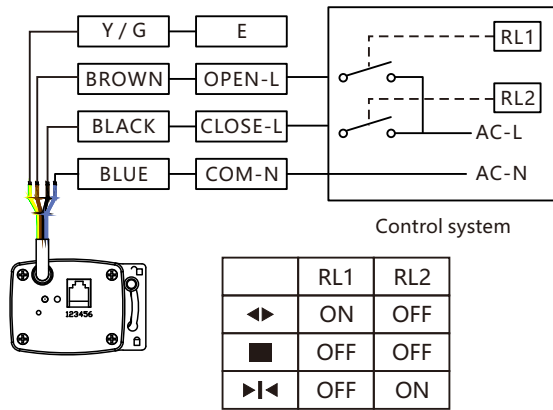
### No RF receiver (Only applicable to KA60C)



### KA60A Dry contact control ( Option 2)



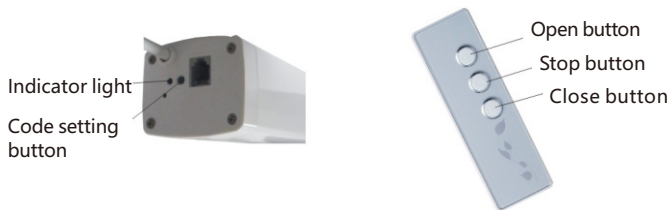
## Intelligent AC Switch control



Attention:

The [open] button and the [close] button can't be Operated at the same time.

## Remote control setting



## Setting code:

- 1、 Press the [code setting] button of the motor about 5 seconds, the light will stay illuminated.
  - 2、 Select the channel of transmitter, then press the [open] button, the light will twinkle 3 times and extinguish, it means the code setting is done successfully.
  - 3、 Then you can use this transmitter to control the motor.
- NOTICE: One motor can only use 16 times for setting code.

## Change direction:

- 1、 Press the [code setting] button of motor about 5 seconds, the light will stay illuminated.
- 2、 Select the channel of transmitter, then press the [close] button, the light will twinkle 3 times and go off, it means the direction change is OK.

## Delete code:

- 1、 Press the [code setting] button of the motor about 5 seconds, the light will stay illuminated.
  - 2、 Loose for 1 seconds then press the [code setting] button of the motor about 5 seconds, the light will twinkle 3 times and extinguish, it means the code delete is OK.
- NOTICE: When you finish deleting code, all the code in motor has been deleted.

## Limit setting :

When the motor is on the track and connected to power, it is ready to set the limit of the motor (HM700A only). Just make it move on the track 3 times( by remote, touch-start or any other controlling modes) and meets end of the track, it finds the limit automatically after that even recovery from power-off. Anyway it would reset the limit in case you change a new track or unexpected uninstall of motor. Do not try to stop the curtain by pulling the curtain, it will damage the curtain and the curtain motor relay cannot be disconnected, hence will give impact on the quality of whole system

## Dual motor function

In case the motorised curtain is heavy and it exceeds the weight capacity of one motor, we could use 2 motors in one track to increase the weight capacity, that's the dual motor function, and it requires 2 motor with special communication code which must be made with previous instruction and one communication signal cable are made and used to connect the RJ11 6-pin port of each. the other functions of RJ11 6-pin is not there then.

## Solution of performance failure

- 1、 Function failure of touch-start.  
Solution: The motor 's power is possible disconnected, please make sure the power is on.
- 2、 No response in transmitter  
Solution: low battery, please replace the battery of transmitter.
- 3、 The motor pause in the half-way.  
Solution: the curtain has been obstructed that lead the load is too heavy, please check the curtain whether has been obstructed.
- 4、 The temperature of the motor is too high to work  
Solution: the built-in heat protection mode is activated. After the temperature falls down the motor can return normal.
- 5、 Low voltage central control and switch control can't work.  
Solution: possible wrong wiring or disconnection somewhere, please check as the connecting drawing whether is correct.
- 6、 The direction of the button in the low voltage central control and transmitter is different from the motor's actual running direction.  
Solution: please refer to the change direction setup mentioned above.  
If the motor still can't work, please contact with the agent or the manufacturer.