ENVIRONMENTAL CONTROL SYSTEM SOLUTIONS

environment control

Professional solutions for intelligent lighting, ventilation and smoke exhaust in modern buildings

DESIGNED BY RICHMAT





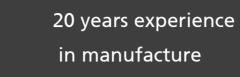


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WEICHAT



Learn about Richmat in a minute





2020

Globalization

Guangzhou, Korea and U.S. branches,



2017

Base

2016-2018, built up All Linear actuator, controller and plastic injection are self-developed.



2015

Growing up

Recognized by European and U.S.



2013

Medical Care



2008

Certificate

Certificated by IOS9001.



2003

Establishment

Richmat[®] You need it, Richmat bring it to you.

Richmat can help you build up your own smart, convenient and comfortable product series.

We devote ourselves to provide satisfied aftersales service, for everysingle client.

Qingdao Richmat Intelligence Technology Inc.



Richmat is a professional actuators and controllers producing join-stock compay integrated the development, production and marketing. Headquartering in Qingdao, China.



Richmat is dedicated to smart home, medical care, smart office and industrial transmission area and hadbeen awarded dozens of patents, Richmat products are sold all over the world with the highest quality and reputation.



Richmat has devoted to the desgin, development and manufacture of actuators, the main products include: linear and dual actuator, hand controls, controllers and corresponding accessories, to meet your needs.













Small footprint

The chain window opening motor can fix the fuselage on the same side of the window eave, and expand and expand the window through the unilateral fixed stainless steel chain, occupying very small space;

Easier installation

After fixing the fixed base on both sides of the motor and connecting the chain with the window, the installation can be completed. For the construction of the factory building, the construction period can be effectively saved



Environment control Ventilation and lighting solutions for all kinds of places

Can be selected according to demand

RICHMAT industrial traditional fields have been widely used in many industries, environmental control is only one of its representative products, if you have other product needs, you can contact our engineers for inquiries;









Product feature

• AL alloy housing • 10,000 lifetime • Strong anti-bending chain

• Anti-corrosion • Electric blocking rotation • Anodizing

Performance parameter

400N 10mm / s
Push/Pull On load speed

1000N Stroke/2+256 mm

Self-lock Installation length

LW2 Series

Certification

• CCCF

External dimension (mm)



Applicable window type (part)







Hopper window

Top-hung window

Skylight

Product selection table

Product mo	odel Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJLW2-03	00 DC24V ± 10%	400N / 400N	1.0A	300 mm	10 mm / s	-20°C - 75°C	IP32
HJLW2-04	00 DC24V ± 10%	400N / 400N	1.0A	400 mm	10 mm / s	-20°C - 75°C	IP32
HJLW2-05	00 DC24V ± 10%	400N / 400N	1.0A	500 mm	10 mm / s	-20°C - 75°C	IP32

Product feature

• 10,000 lifetime AL alloy housing

 Electric blocking rotation • Anti-corrosion

Performance parameter

1000N 6mm / s On load speed Push/Pull

2000N Stroke+310 mm

Installation length Self-lock

Certification

CCCF

External dimension (mm)



Applicable window type (part)









Hopper window

Top-hung window

Skylight

LW3 Series

Product selection table

Product model	Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJLW3-0400	DC 24V ± 10%	1000N / 1000N	1.2A	400mm	10 mm /s	-20°C - 75°C	IP65
HJLW3-0500	DC 24V ± 10%	1000N / 1000N	1.2A	500mm	10 mm /s	-20°C - 75°C	IP65
HJLW3-0600	DC 24V ± 10%	1000N / 1000N	1.2A	600mm	10 mm /s	-20°C - 75°C	IP65

LW4 Series

Product feature

• 10,000 lifetime • Strong anti-bending chain AL alloy housing

• Electric blocking rotation • Anti-corrosion

Performance parameter

800N 10mm / s On load speed Push/Pull

1500N Stroke+576 mm

Installation length Self-lock

External dimension (mm)



Applicable window type (part)







Hopper window

Top-hung window

Skylight

Product selection table

Product model	Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJLW4-0300	DC 24V ± 10%	800N / 800N	2.0A	300mm	10 mm /s	-20°C - 75°C	IP32
HJLW4-0400	DC 24V ± 10%	800N / 800N	2.0A	400mm	10 mm /s	-20°C - 75°C	IP32
HII W4-0500	DC 24V + 10%	800N / 800N	2 0A	500mm	10 mm /s	-20°C - 75°C	IP32

Product feature

• 10,000 lifetime AL alloy housing

• T Original factory microswitch • Anti-corrosion

Performance parameter

800N 9.5mm/s On load speed Push/Pull

800N Stroke+220 mm

Installation length Self-lock

Certification

CCCF

External dimension (mm)



 Φ =8.2 ±0.1

Applicable window type (part)







Hopper window

Top-hung window

Skylight

A301S

Product selection table

Product model	Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJA301S-0300	DC 24V ± 10%	800N / 800N	2.0A	300mm	7 mm /s	-20°C - 75°C	IP65
HJA301S-0400	DC 24V ± 10%	800N / 800N	2.0A	400mm	7 mm /s	-20°C - 75°C	IP65
HJA301S-0500	DC 24V ± 10%	800N / 800N	2.0A	500mm	7 mm /s	-20°C - 75°C	IP65

A71

• 10,000 lifetime AL alloy housing

• T Original factory microswitch • Anti-corrosion

Performance parameter

Product feature

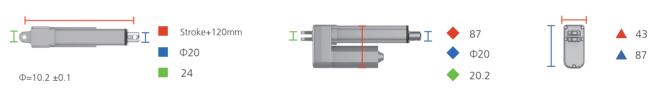
1000N 9mm / s On load speed Push/Pull

Stroke+120 mm 1000N

Self-lock Installation length



External dimension (mm)



Applicable window type (part)







• Hopper window

Top-hung window

Skylight

Product selection table

Product model	Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJA71-0300	DC 24V ± 10%	1000N / 1000N	2.6A	300mm	9.0 mm /s	-20°C - 75°C	IP65
HJA71-0400	DC 24V ± 10%	1000N / 1000N	2.6A	400mm	9.0 mm /s	-20°C - 75°C	IP65
HJA71-0500	DC 24V ± 10%	1000N / 1000N	2.6A	500mm	9.0 mm /s	-20°C - 75°C	IP65

A72 Series

Product feature

• 10,000 lifetime AL alloy housing

• T Original factory microswitch • Anti-corrosion

Performance parameter

1000N 7mm / s On load speed Push/Pull

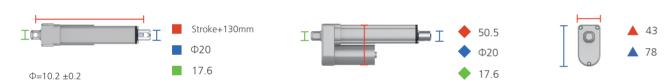
1000N Stroke+130 mm

Self-lock Stroke

Certification

CCCF

External dimension (mm)



Applicable window type (part)







Hopper window

Top-hung window

Skylight

Product selection table

Product model	Working Voltage	Push/Pull	Max current	Stroke	Speed	Temperature	IP Class
HJA72-0300	DC 24V ± 10%	1000N / 1000N	2.0A	300mm	7 mm /s	-20°C - 75°C	IP65
HJA72-0400	DC 24V ± 10%	1000N / 1000N	2.0A	400mm	7 mm /s	-20°C - 75°C	IP65
HJA72-0500	DC 24V ± 10%	1000N / 1000N	2.0A	500mm	7 mm /s	-20°C - 75°C	IP65

 Emergency opening Group ventilation

• Automatic control • Buzzer alarm

Performance parameter

Product feature

AC 180 - 240V DC 24 V Output voltage Input voltage

42 A 1000 W Output power Output current

Certification

CCCF

C81 Series



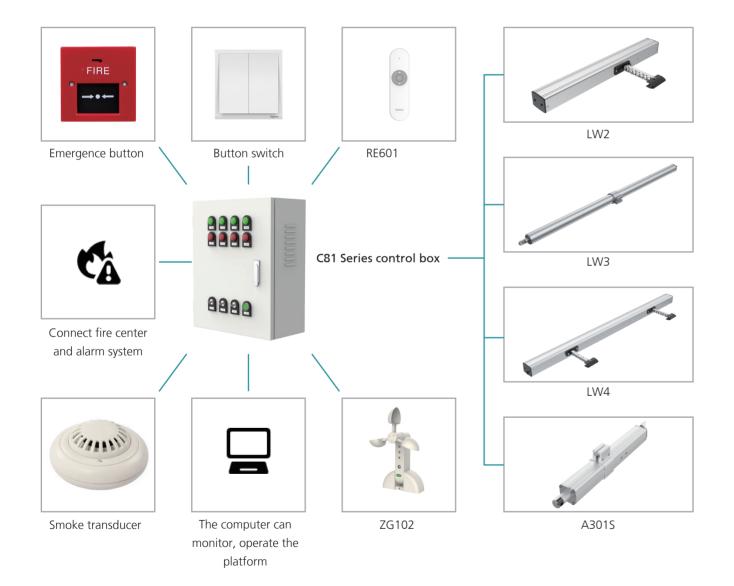
External dimension (mm)



Control system diagram

Diversified connections, easy operation

The C81 control box can be connected to a variety of control rods and control systems, whether it is a screw motor or a linear screw motor, which can be quickly accessed and supports sensing facilities such as wind and rain sensors. Users can use handheld or wireless remote control to control and drive the complete set of systems, which is greatly convenient for daily work and life.







Single channel transmitter

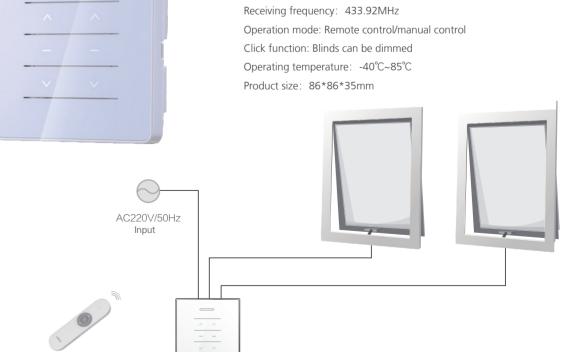
Single channel transmitter

Dc controller

controller

ZC34-04-2A

Num. of channels: 2 Power supply voltage: AC100-240V 50/60HZ Load power: 48W





ZN103

Intelligent voice transmitter Size: 80mm*28mm

Weight: 85g

Transmitting distance: ≤ 50m Emission frequency: 433.92MHz Light source power: 9*0.25W Control mode: Manual/voice control Supply voltage: AC100-240V 50/60Hz



ZTB0001

Dc synchronizer

Supply voltage: 24V (both positive and negative)

Output voltage: 24V

Protection current: 0.8A~3A

Standby power consumption: 10mA Application: dual motor synchronization

Product size: 100*68*50MM



RE601

Single-channel handheld transmitter Emission frequency: 433.92MHz Power supply: 1.5V*2 battery Transmission frequency: ≤ 10mW



ZG102

Wired weather sensor

With wind sense, rain sense intelligent sensing function

It can be controlled with multiple accepting switches

Different intensity induction values can be set according

to shading requirements

Surface moisture-proof treatment

Suitable for electric window opener, electric shutter, electric awning, etc



Dc synchronization solution



RICHMAT's global influence

RICHMAT has been mading profits for more than 10 years, already became a large-scale enterprise in the field of transmission & control. The products are recognized in more than 40 countries and



Integration of industry chain









RICHMAT has sophisticated industrial chain .By 2022, RICHMAT has achieved complete self-sufficiency in moulding, injection, electrics development, and assembling. Until now, there are 4 production bases, covering a total area of 100,000 m² and nearly 1,200 employee.

Every 6 seconds

There's a RICHMAT actuator installed

RICHMAT's industrial manufacturing capacity enable it to produce and sell 5 million motors a year.

5,000,000 10,000

production capacity production capacity per

7 - 15 day 3 years Short Lead Time Warranty



Mould development

Injection moulding

Electronic R&D

Assembling production

Certificates System

Quality system / intellectual property / trademark patent / certificate



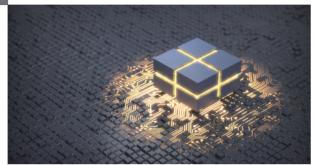


Richmat High-Tech Industrial Park

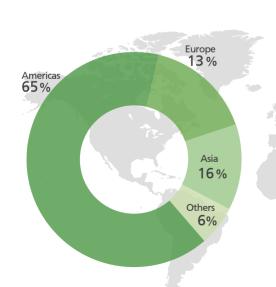
Richamt basement locates in Jimo semiconductor high-tech Industrial Park.Billions investment and carries main production task of Richmat.

RICHMAT Electronic technology R&D center

RICHMAMT electronic technology R&D center is mainly for electronic component development, involved a series of products like electronic control, inductor, transducer and PCB. This is the top level electronic technology R&D center in Shandong Province.



RICHMAT



International sales network

	Europe	Asia	Americas	Others
	Germany	China	USA	Australia
	France	Japan	Canada	South Africa
- 3	UK	Korea	Brazil	New Zealand
	Spain	Thailand	Mexico	-
	Italy	Vietnam	Columbia	
	Portugal	Singapore		200
	Netherland	Malaysia		
	Belgium	Pakistan	$\mathcal{I} = \mathcal{I}_{\mathcal{I}}$	
	Slovak Republic	Israel	1	
	Czech Republic	UAE	42	
	Finland	India	177	
	Sweden		1	
	Turkey		5 8	
	Russia		4.4	
	Republic of Lithuan	iia :	WE LA	
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