TAIWAN EXCELLENCE 2019

CSmini2

Automatic Sliding Doors of Euro-Aesthetics

TRONCO™

Automatic Entrance & Access Systems


ZUID

TRONCO CSmini2

Automatic Sliding Door System

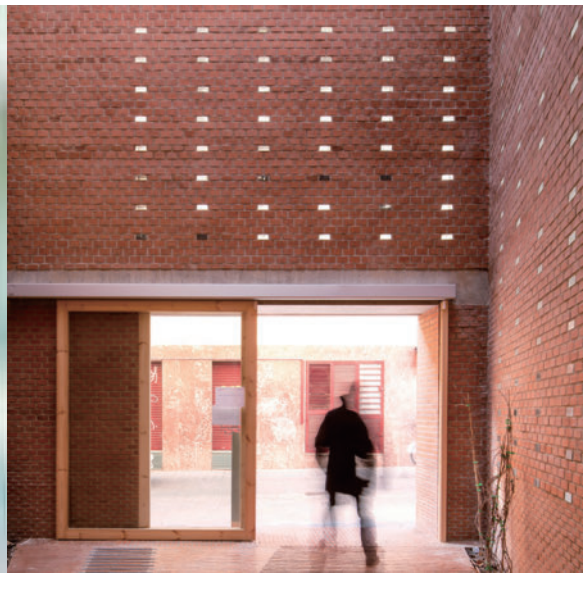
Starting from the Heart

CSmini2 Based on years experience of research and development on automatic controlling system and construction projects, and at the same time considering real-world user scenarios and safety, TRONCO presents CSmini2 series automatic sliding door system.

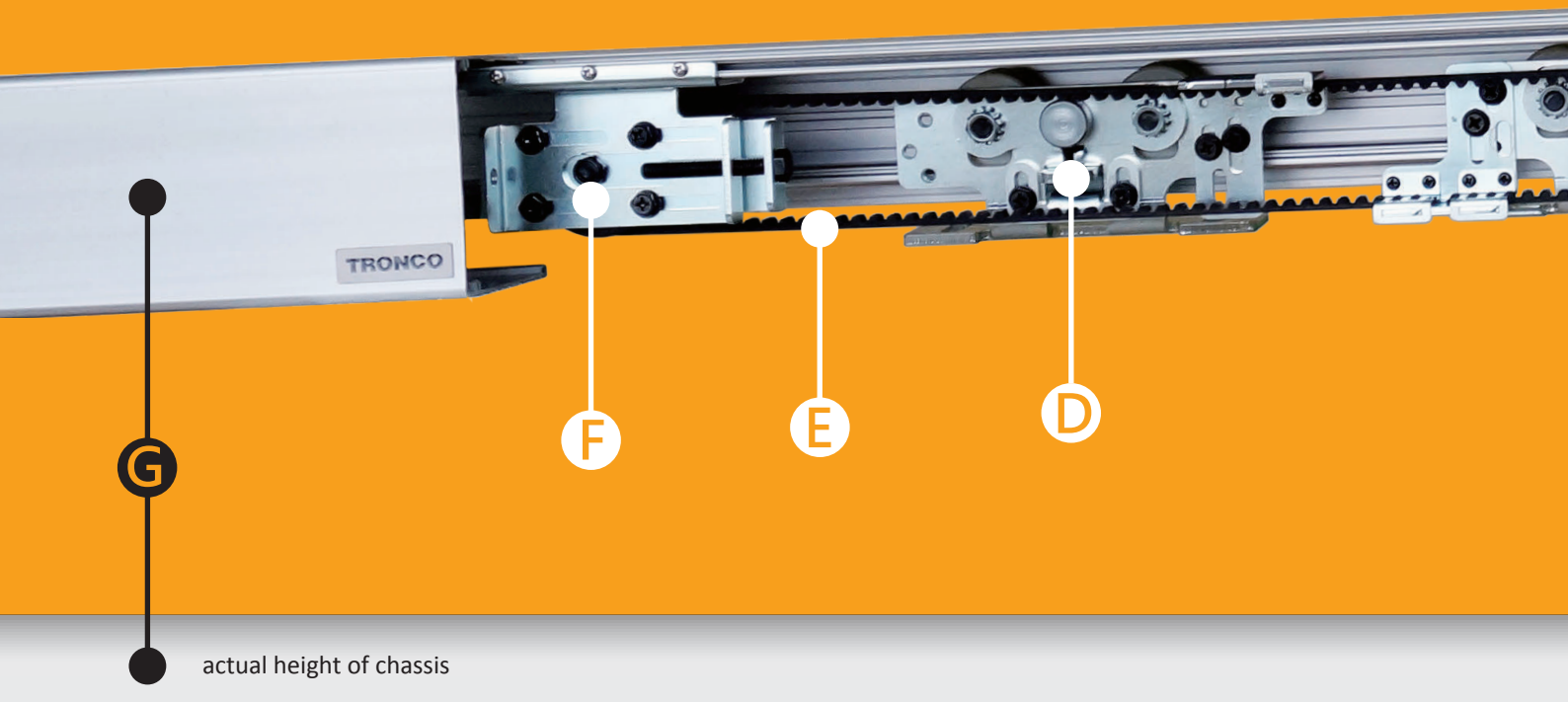
Thanks to its intelligent microprocessor controller, CSmini2 automatic sliding door system offers various fine adjustment options of door movements, such as travel distance, closing/opening speeds, smooth transition between high and low speeds.

With green engineering and the environment in mind, the system features high-efficiency power supply with standby power consumption at lower than 0.5W.

CSmini2 passes SGS reliability tests of 3-million time operations, and is CE, EN16005 compliant and TÜV certified, as safety and reliability come first as we design TRONCO automatic door systems.



10cm automatic door system high thin and sleek rail



actual height of chassis

B Standalone Power Supply

The system can be coupled with a standalone power supply (universal AC input of 100-240V). The efficient device consumes little electricity with less than 0.5W standby power consumption. DC power output is available.

C Wire Connector

The system offers many contacts such as door-operating signal, safety beam, reduced opening, emergency door stop, locked door, electric lock connections. All the wires are well-organized for easy and fast maintenance.

D Adjustable Hanger

Stable and smooth mechanics allow quick and easy door height adjustments. On top of that, safety mechanism secures door leaves from derailing in the event of accidental crushes.

E Toothed Timing Belt

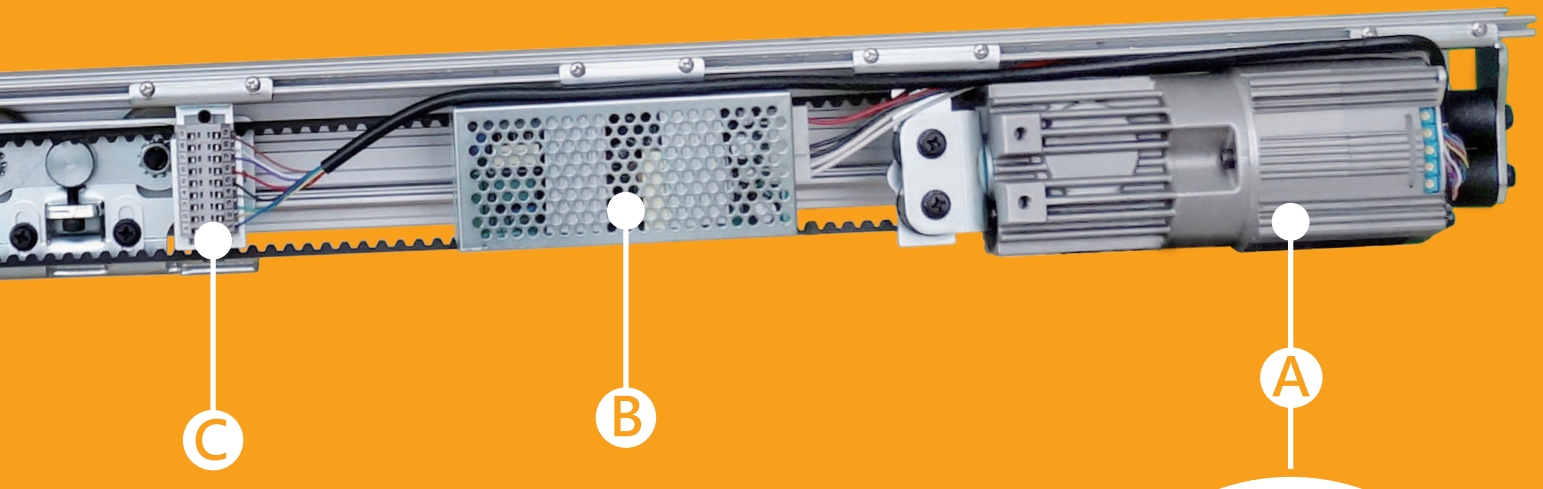
With excellent reliability, the belt lasts strong and secure in continuous use. The toothed design ensures effective belt operation.

F Adjustable Driven Wheels

Adjustable mechanical design makes for easy installation and maintenance of appropriate belt tension.

G Aluminum Alloy Rail

The thin rail of aluminum alloy is designed with Euro-aesthetics. The rail measures only 10 cm of height. Made of solid one-piece aluminum alloy yet lightweight, the work of art is built to last in style.



A Microprocessor-Based Servo Motor

Our servo motor is a combination of the controller and the motor. All the door movements can be adjusted through five knobs on the motor.
The efficient brushless DC servo motor is compact yet it gives high RPMs.
In operation, it's quiet and smooth, giving off little heat.
Moreover, overloading protection and automatic restoration make sure of ultimate system stability.

Multiple System Operation Status

Shows system status such as adjusted mode, standby mode, hit obstacles, system error, door position, high and low speed modes and travel distance.
Monitors the status of switching devices, sensing devices, safety devices by the LED indicators.

Only through the 5 knobs of the motor all the door movements can be adjusted

- Opening speed
- Closing speed
- Opening slow speed distance
- Closing slow speed distance
- Delay closing time

Built-In Slient Motor Lock

Keeps the door locked when it is closed, and prevents the door leaf from being opened by external force.
The doors lock upon being closed.

Thoughtful and Precise Intelligence Inside

Intuitive Installation, Easy Maintenance

Self-Detection for Malfunction and Abnormalities

The system is able to detect malfunction on its own and show it through LED indicators, allowing quickly identification of the problem. When abnormalities occur, such as crushing on obstacles, doors stop and return to full-open parking position instantly prior to an automatic system check, to make a failure mitigation measure and prolong lifespan.

Self-Learning at Boot-up

According to the environment and door weight difference, the system automatically gets going while learning once powered up. Besides, in operation, it can detect abnormalities against data collected.

Modular Design for Quick Installation and Easy Maintenance

The system lives up the modular design philosophy. It is intuitive and easy to have the system installed, tested and maintained.

- Operation Status
- Motor Abnormality Record
- Opening/Closing Times
- Door Movement Abnormality Record
- System Reset Record
- Battery Voltage Display
- Door System Operation Settings
- Peripheral Settings

Value the Important Data

CS-T5

External digital controller

Shows instant system status for timely diagnosis.

Five Modes to Choose
Total Control at Your Will

CS-PS5A
Mode selector

Advanced automatic door behaviors are specialities of TRONCO automatic door systems. Based on extensive user scenario researches, the CS-PS5A offers most intelligent and spot-on operation modes along with simple and elegant industrial design for superior user experience.

General Mode

When the system receives signals, doors open fully.
This mode is for general access purposes.

Half-opened Mode

Open width can be set as desired to prevent air conditioning leakage and virus contamination.

Keep-opening Mode

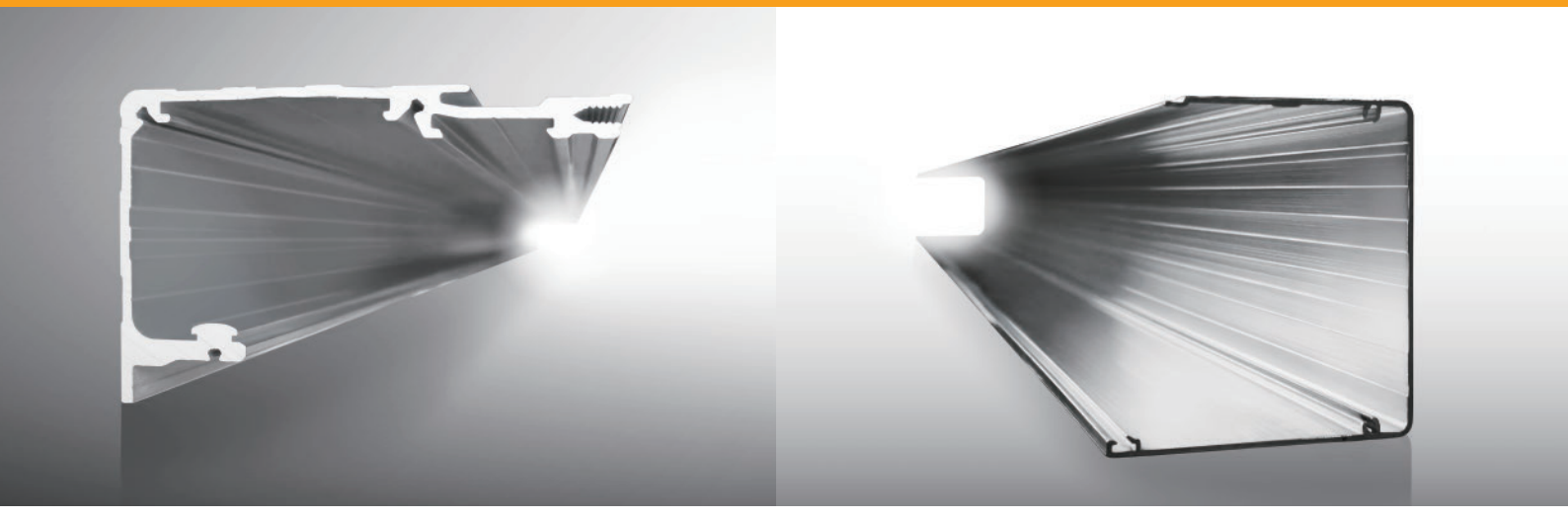
The doors remain open constantly.
This mode particularly applies to evacuation scenarios.

Keep-closing Mode with Lock

In the event of emergencies, doors close and lock instantly
with all access denied for personal safety and property protection.

Exit Only Mode

In this mode, outside access is not allowed.
Doors open only when people are making an exit.



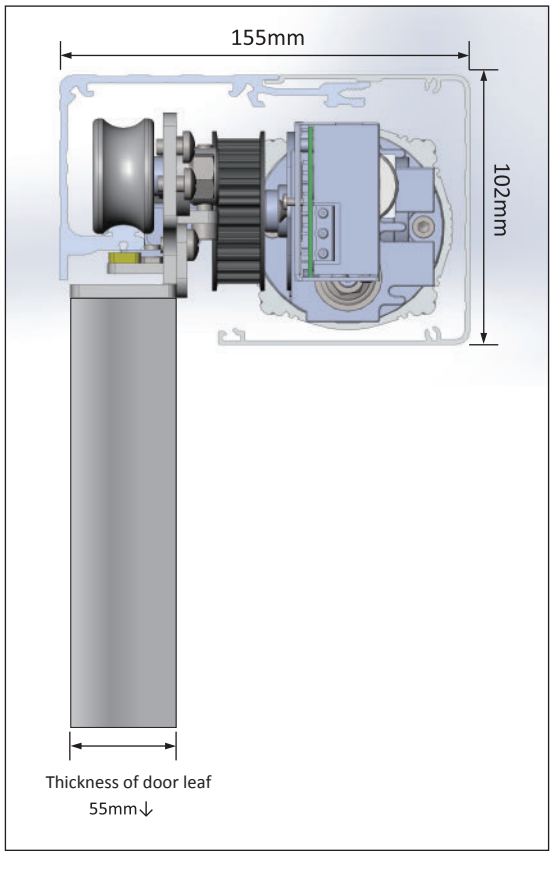
* Can instal mute track strips according to the needs to achieve extremely quiet operation

Specifications

Model	CSmini2-S72
Load	150kg x 1 (Single) 120kg x 2 (Bi-parting)
Drive belt	Toothed timing belt
Regular door size	W : 700 ~ 1400mm H : 1900 ~ 2300mm
Max. door size	(Max) W : 5000mm↓ 、H : 3500mm↓ (Min) W : 450mm↑ 、H : Built to specs required
Travel distance	400 ~ 12000mm
Door opening/ closing speed	150 ~ 650mm / sec (Adjustable)
Input voltage	AC 100V ~ 240V (50/60Hz)
Power consumption	75W
DC power supply	DC 24V (With power supply)
Rail size	H 102 x D 155mm
IP rating	IP20
Operating temp.	-20 ~ 45˚C

***Contact our agent for customized dimensions**

section size



Has passed

SGS reliability tests of 3 million time operations

TÜV of Germany

German Quality Management System Certification

Taiwan Excellence Awards

CE European Standards and Directives Certified / Compliant

Conform with the essential safety requirements of the relevant European Directive:

- Machinery Directive 2006/42/EC
- Electromagnetic Compatibility Directive 2014/30/EU

They are based on the following standards：

●EN ISO 12100: 2010 / Safety of Machinery - General principles for design / Risk Assessment and Risk reduction

●EN 60335-1:2012+A1:2014 Household and similar electrical appliances – Safety - General requirements

● EN 60335-2-103:2015 Safety of household and similar electrical appliances.

Particular requirements for drives for gates, doors and windows

●EN 16005:2012 Power operated pedestrian doorsets — Safety in use — Requirements and test methods

●EN ISO 13849-1:2015 /Safety of machinery — Safety-related parts of control systems Part 1: General principles for design

●EN 61000-6-2:2005 / Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

●EN 61000-6-4:2007/A1:2011 / Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments.

●IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010

●IEC 61000-4-4:2012, IEC 61000-4-5:2014

●IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004

Peripherals

Sensor

SR-STE311 / 313
Infrared Sensor

Power supply	AC 90 ~ 250V AC / DC 12 ~ 24V
Mounting height	3000 mm (Max)
Longitudinal adjustment	15°
LED indicator	Red (Power on) Green (Operating)
Dimensions (mm)	209 x 34 × 73

SR-S500P
Infrared Sensor

Power supply	DC 10 ~ 30V
Mounting height	6000 mm (Max)
Detecting angle	360° (Vertical)
IP rating	IP65
Dimensions (mm)	32 × 22 ~ 37.1 × 24.7 ~ 39.2

SR-TLP09
Touchless Switch

Power supply	DC 10 ~ 16V
Power consumption	25mA ±5% (Standby) 35mA ±5% (Operating)
Relay contact rating	1A @30VDC
Detecting distance	3 ~ 10 cm (Adjustable)
IP rating	IP65
Dimensions (mm)	115 × 70 × 34

SR-RPMC
Microwave Motion Sensor

Power supply	AC 12 ~ 28V DC 12 ~ 36V
Mounting height	1.8 ~ 4m
Detecting area	Horizontal / Vertical 1.6 ~ 0.8m (Min) 4.8 ~ 2.3m (Max)
Detecting angle	0° ~ 45° (Vertical) -20° ~ 20° (Horizontal)
Dimensions (mm)	172 × 60 × 48

SR-S600P
Infrared Sensor

Power supply	DC 10 ~ 30V
Mounting height	4000 mm (Max)
Detecting angle	0° ~ 20° (Vertical)
IP rating	IP40
Dimensions (mm)	62.6 × 18.7 ~ 25.2 × 32.6 ~ 34.3

SR-TLP300
Touchless Switch

Power supply	DC 12V
Detecting distance	0.1 ~ 10 cm
LED indicator	Blue (Standby) Red (Operating)
IP rating	IP65
Dimensions (mm)	115 × 70 × 29

SR-S40
Infrared Beam

Power supply	DC 10 ~ 30V
Mounting height	3 / 6 m
IP rating	IP65
Dimensions (mm)	Ø29 × Ø34 × 35.8

SR-S300
Infrared Safety Beam

Power supply	DC 10 ~ 30V
Detecting distance	0.5 ~ 6 m
IP rating	IP65
Dimensions (mm)	Ø12 × Ø15 × 15.9

SR-MD74
Safety Light Curtain

Power supply	DC 14 ~ 30V
Detecting distance	4m (Max)
Number of beams	16
IP rating	IP65
Dimensions (mm)	2000 × 12 × 16

Access Control

SE-WIT6000P

Power supply	DC 12V
Power consumption	300mA (Max)
Dimensions (mm)	115 × 82 × 23

SE-WIT6000MGL

Power supply	DC 12V
Power consumption	200mA (Max)
Interface	RS-485
Card reader	13.56MHz (Mifare)
Transmission rate	19,200 bps (N,8,1)
Dimensions (mm)	120 × 77 × 22

SE-AR721H

Power supply	DC 9 ~ 16V
Power consumption	<3W
Interface	RS-485
Frequency range	13.56MHz
Transmission rate	9600 bps (N,8,1)
Dimensions (mm)	111 × 77 × 26

Wireless Device

WL-TS20
Wireless Switch

Power supply	AC 110 / 220V DC 12 ~ 24V
Receiving distance	5 m
LED indicator	Red off (Standby) Red on (Operating)
Dimensions (mm)	163 × 51 × 38 (Receiver) 200 × 41 × 13 (Transmitter)

WL-T503
Wireless Switch

Power supply	AC 100 ~ 230V
Receiving distance	30m
Dimensions (mm)	170 × 49.5 × 33 (Receiver) 200 × 45 × 13 (Transmitter)

WL-A732
Remote Control

Power supply	AC / DC 12V
Receiving distance	50 ~ 120 m
Frequency range	371.5MHz / 433.92MHz
Dimensions (mm)	88 x 72 x 23 (Receiver) 60 x 40 x 12 (Transmitter)

Switch

SH-AR7A
Push Switch

Power supply	DC 12V
Voltage	DC 5 ~ 24V
Current	100mA
Switch	N.O
LED indicator	Blue / Red
Dimensions (mm)	114.3 × 69.85 × 6.35

SH-TD01
Disability Restroom Push Switch

Dimensions (mm)	240 × 120 × 72

SH-FS2
Foot Switch

Load	AC 250V / 10A
Cable	0.5mm / 3C / 1M
Dimensions (mm)	80.5 × 80 × 30

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