NABCO Automatic Door

NATRUS

V-60/85/150/250/500SL [Sliding Door Series]

Highest level of safety

Future-standard automatic door with a priority on safety

NABCO × TRUST = NATRUS

Solid technologies and quality open the future

Based on the relationship of trust we have developed with our customers, we have been providing innovative and high quality Pedestrian Flow Solutions that create a more comfortable environment.
To prove worthy of our customers' trust, we have developed "NATRUS," which further enhances safety, by drawing on our past experience and accumulated know-how.

Products conform to EN16005 and JIS A 4722

NATRUS offers a safer passage environment based on European and Japanese safety standards.

Responsible for safety

As modern society becomes an aging society, products that can offer a higher level of safety are becoming more sought after.

"Safety" is the key element that everyone needs to consider.

Although safety is incorporated into conventional automatic doors, the improvement of safety performance is a never-ending task.

Automatic doors must be safe for all people including pedestrians as well as building managers and owners.

Everyone desires a safe future.

Toward "Doors for everyone" based on technologies, services, and experience

In the future society, entrances providing safety and comfort are required for all people, from children to the elderly, as a matter of course (Doors for everyone).

In order to build such a society, NABCO has launched a new product, NATRUS.

NATRUS is a true "in-a-class-of-its-own" product developed by NABCO, based on over 60 years of experience in technologies, services and safety standards.

NATRUS

Technology
- NABCO network system
- Long-life design

Service
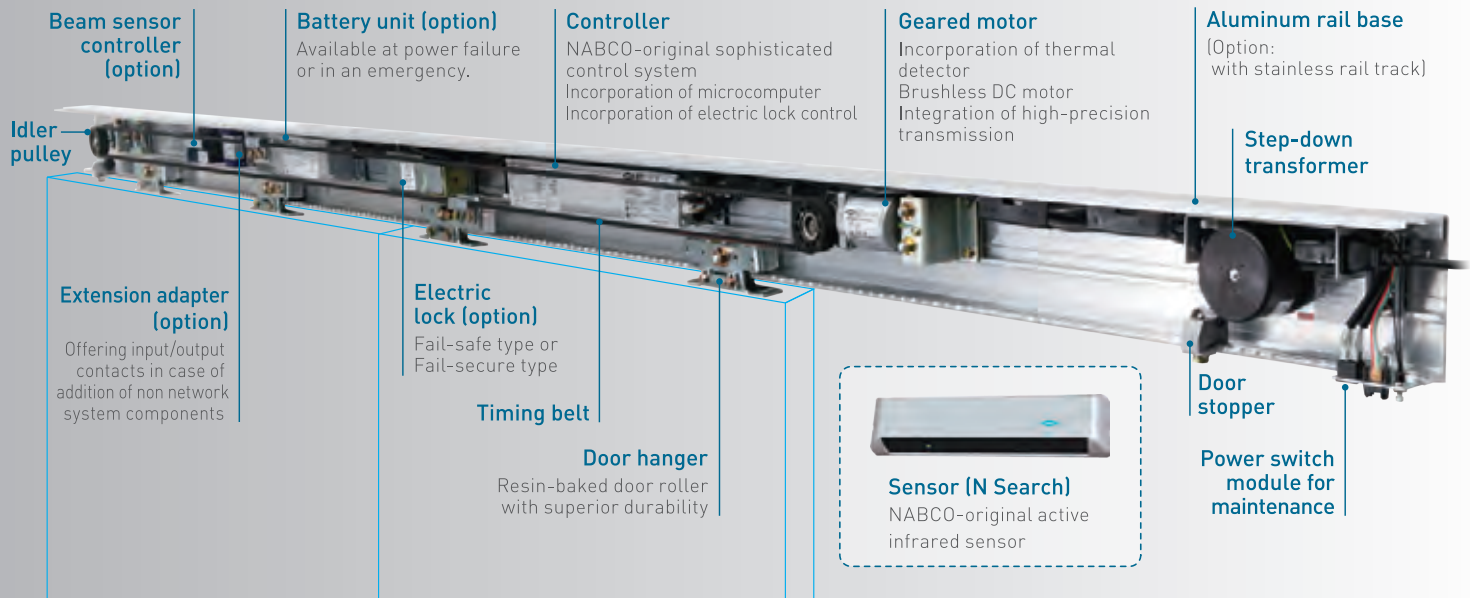- Precise maintenance

Experience
- Experience and sales performance for over 60 years
- Solutions proposals

Safety
- NABCO original safety standards
- Conformance to EN 16005 and JIS A 4722

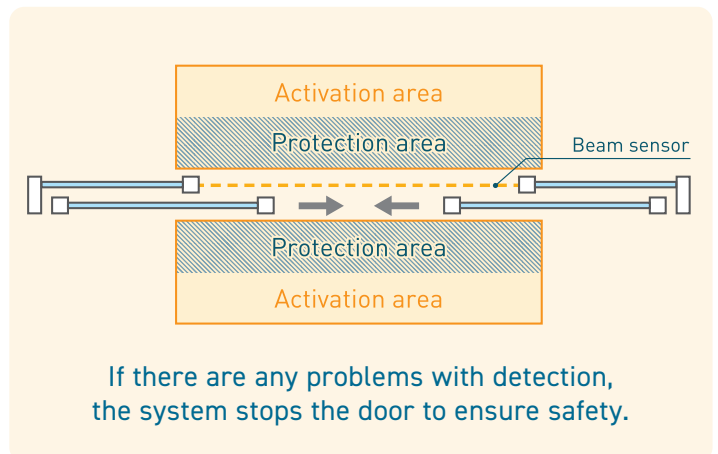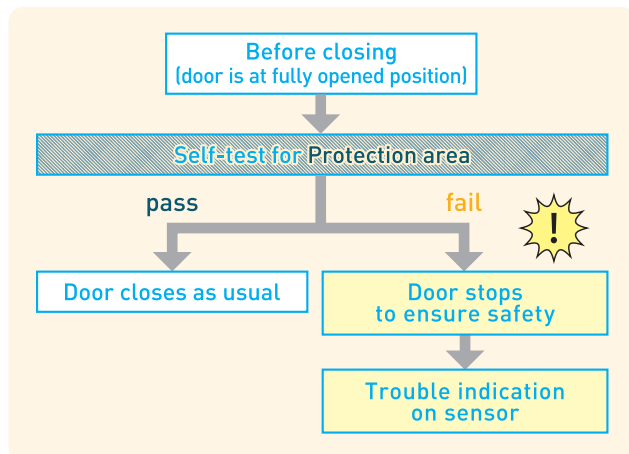Toward achievement of "Doors for everyone"

1. Full model change for top level of safety

Beam sensor controller (option)

Idler pulley

Extension adapter (option)
Offering input/output contacts in case of addition of non network system components

Battery unit (option)
Available at power failure or in an emergency.

Electric lock (option)
Fail-safe type or Fail-secure type

Timing belt

Controller
NABCO-original sophisticated control system
Incorporation of microcomputer
Incorporation of electric lock control

Door hanger
Resin-baked door roller with superior durability

Geared motor
Incorporation of thermal detector
Brushless DC motor
Integration of high-precision transmission

Sensor (N Search)
NABCO-original active infrared sensor

Aluminum rail base
(Option: with stainless rail track)

Step-down transformer

Door stopper

Power switch module for maintenance

※ This is an image diagram of the V-60/85/150SL drive unit.

Self-test feature for sensors

The door system conducts a self-test in every operation to check whether sensors are working in order to correctly detect the protection area.

Before closing
(door is at fully opened position)

Self-test for Protection area

pass **fail** !

Door closes as usual

Door stops to ensure safety

Trouble indication on sensor

Activation area

Protection area

Beam sensor

Protection area

Activation area

If there are any problems with detection, the system stops the door to ensure safety.

## Trouble indication on sensor Advantage

LED blinks to show occurrence of trouble

If there are any problems with the components including the sensors, the fail-safe mechanism works and the LED starts blinking to show "network component error" so that building owners can easily comprehend the current situation. In the case the sensor shows the LED blinking, please contact your local distributor of NABCO.

Higher density of sensor area

**Conventional sensor** | **NATRUS**

Door | Door

Image
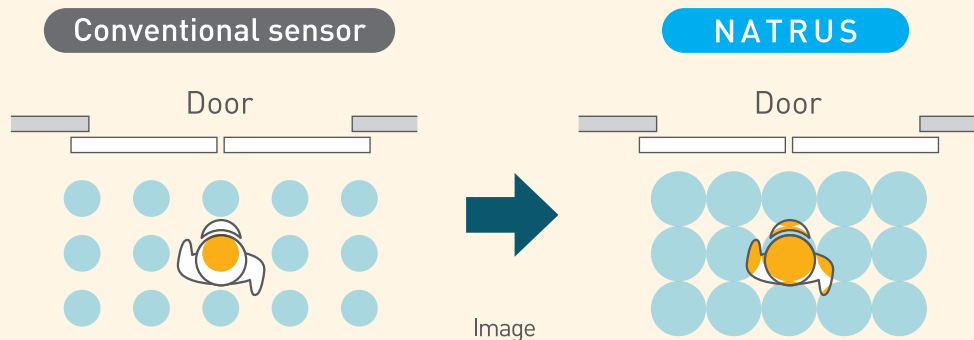
Densifying the sensor area results in greater certainty of detection and better reaction to potential risks near the door, in order to prevent collisions between the door and pedestrians.

NABCO network system based on CAN communication

NABCO network system

Self-diagnosis function allows the automatic door to monitor safety autonomously. If a problem occurs, it can be identified immediately and the fail-safe mechanism will work to prevent an accident.

Idler
Pulley | Activation / Safety sensor | Controller | Geared motor

NET
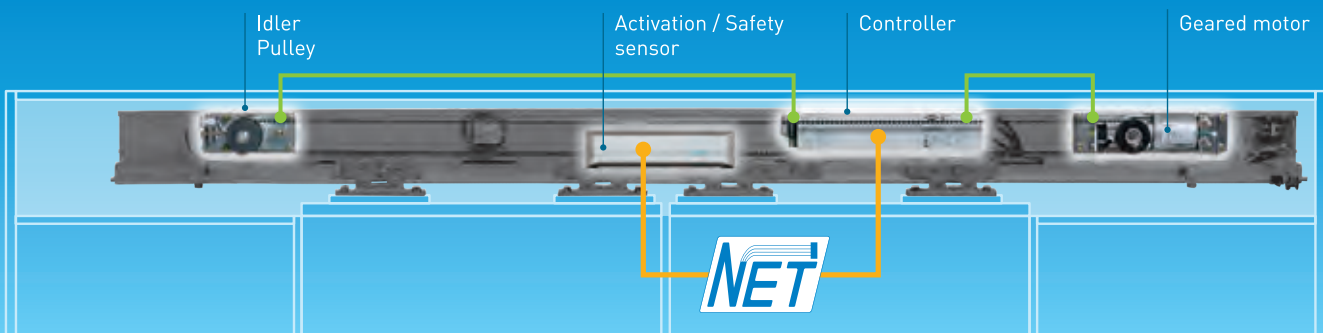
● **What is CAN (Controller Area Network)?**

The CAN technology used in NATRUS is the ISO international standard network technology. Since this technology offers high reliability, noise resistance and superior fault-detecting features in information communications, it has been widely used to transfer important information in various fields including transportation equipment such as automobiles, aircraft, railroad vehicles and ships; medical equipment; and industrial equipment.

Fail-safe design

Troubles with components are detected by the self-diagnosis and automatically trigger the fail-safe mechanism to ensure the safety of pedestrians.

Occurrence of trouble
involving a component

Safety feature works
(opening or stopping the door)
to prevent an accident.

The door system detects the faulty components to provide optimal operation.

For example:
(1) If trouble with the geared motor is detected, the door stops.
(2) If trouble with the sensor is detected, the door is fully opens.
(3) If a wire break is detected, the door stops.

# 2. Various setups for a comfortable environment

ECO mode Advantage

The door system judges pedestrian's movement and, after the pedestrian passes through the door, starts the closing action earlier, contributing to energy saving.

Conventional automatic door

NATRUS
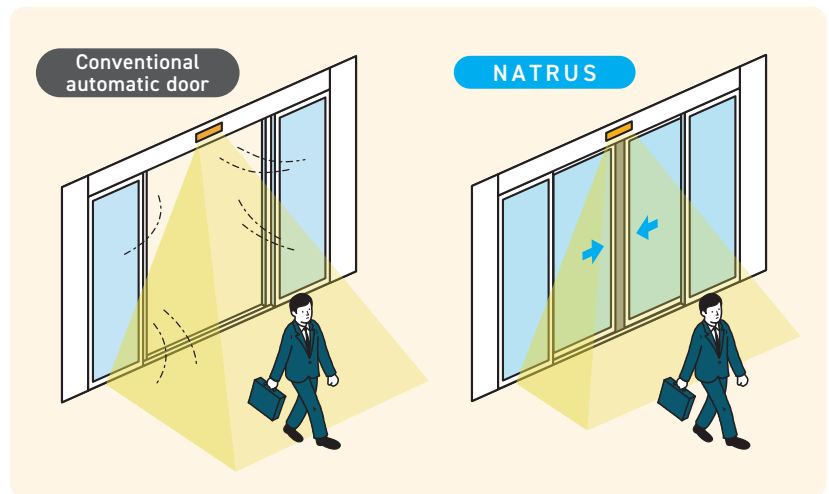
Spot-by-spot setup of sensor Advantage

Since sensor detection spots can be set one by one according to the actual site environment, it is possible to reduce unnecessary door operation. The interior environment is improved and operational efficiency is maintained.

inactive

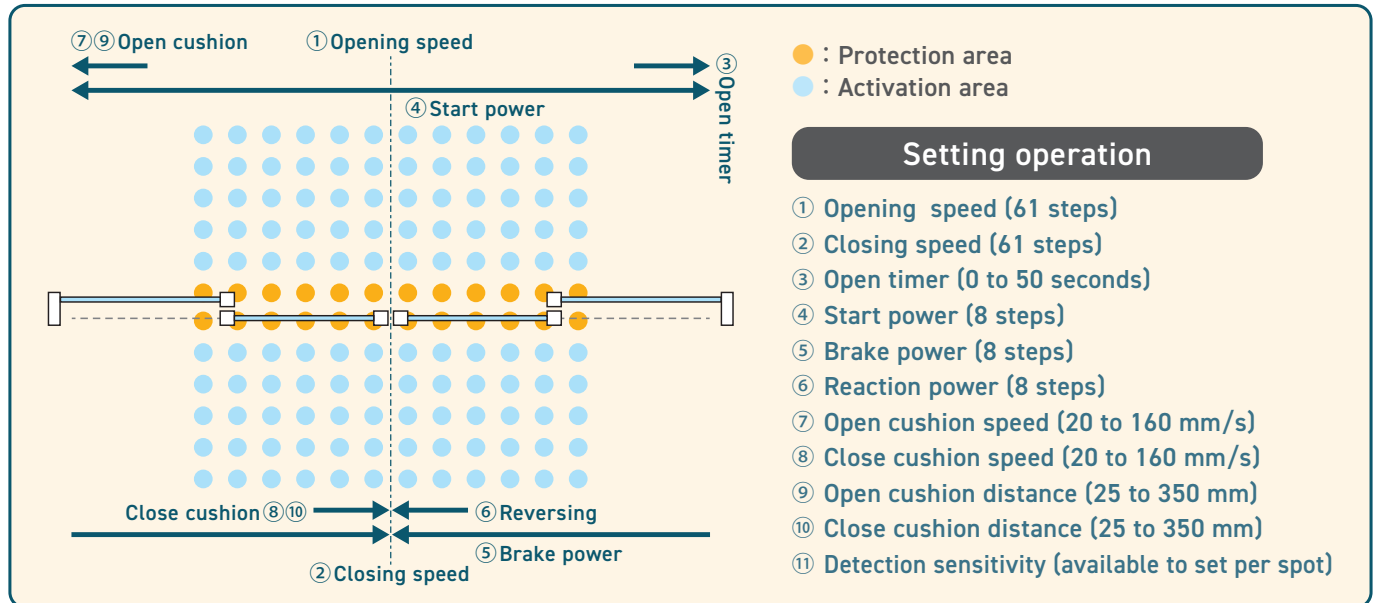active
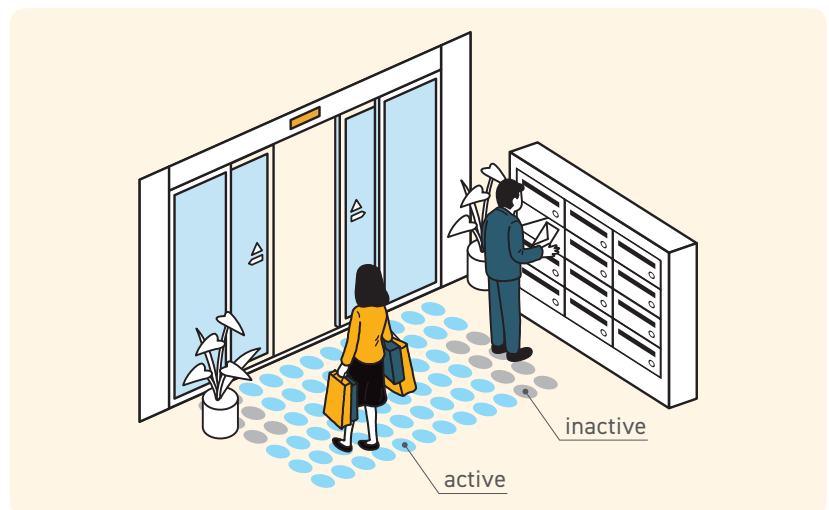
Touchless switch mode Advantage

In case the door keeps opening unnecessarily due to continually passing by the door, the setting can be changed to Touchless switch mode (only NS-A01/02/03 sensor).

1 In the case of Touchless switch mode, pedestrians walking or objects moving pass the passageway are not detected.

2 When a hand is placed near the touch plate, the door opens.

●Example of touch plate

AUTO

3 After the door opens, the detection area is enlarged around the door to detect pedestrians.

4 When no more pedestrians are detected, the door closes and the detection area returns to be limited again.
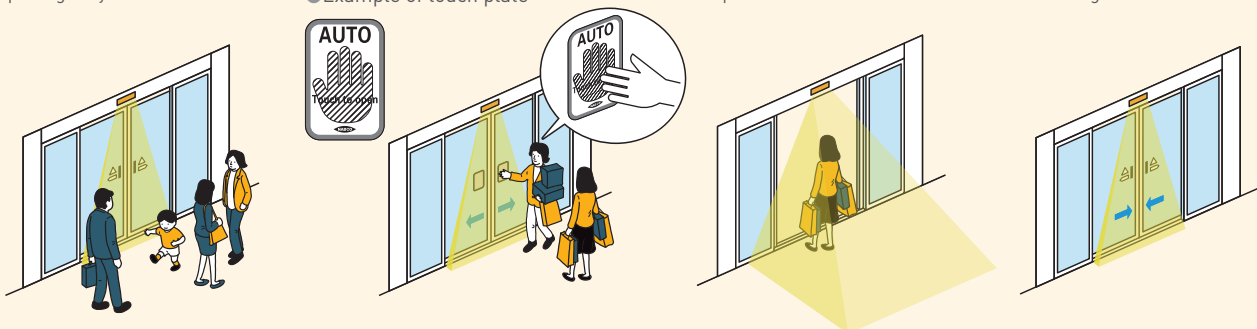
⚠ Touchless switch mode works by means of near infrared reflection of active infrared sensor.
Therefore, unlike a mechanical touch switch, this sensor may detect pedestrians or objects outside the detection area of the touch plate.
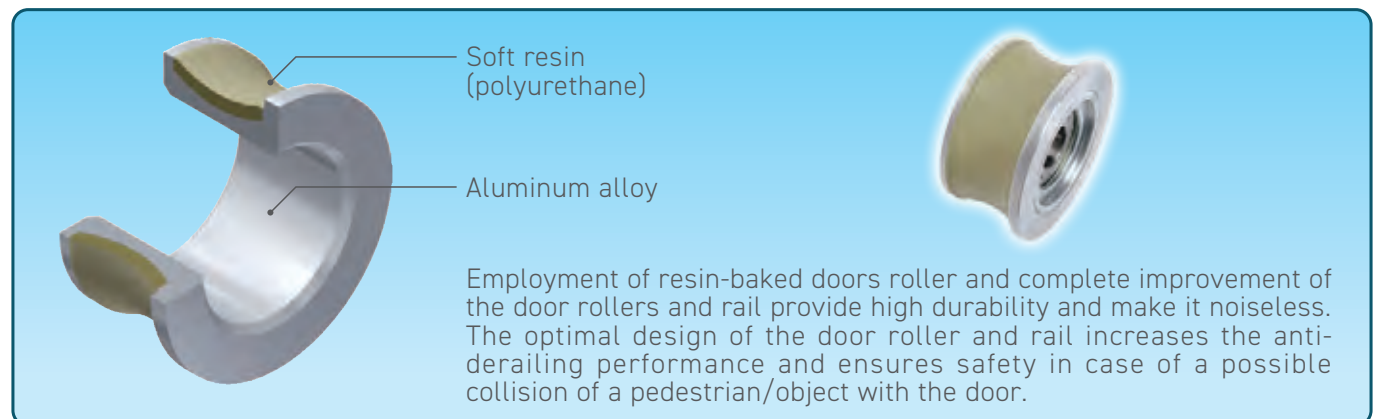
Example of setting operation

⑦⑨ Open cushion   ① Opening speed   ③ Open timer

④ Start power

● : Protection area
● : Activation area

Setting operation

① Opening speed (61 steps)
② Closing speed (61 steps)
③ Open timer (0 to 50 seconds)
④ Start power (8 steps)
⑤ Brake power (8 steps)
⑥ Reaction power (8 steps)
⑦ Open cushion speed (20 to 160 mm/s)
⑧ Close cushion speed (20 to 160 mm/s)
⑨ Open cushion distance (25 to 350 mm)
⑩ Close cushion distance (25 to 350 mm)
⑪ Detection sensitivity (available to set per spot)

Close cushion ⑧⑩   ⑥ Reversing

② Closing speed   ⑤ Brake power

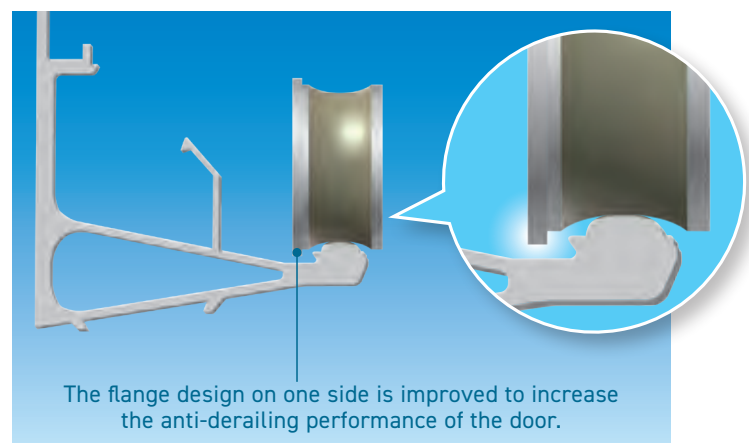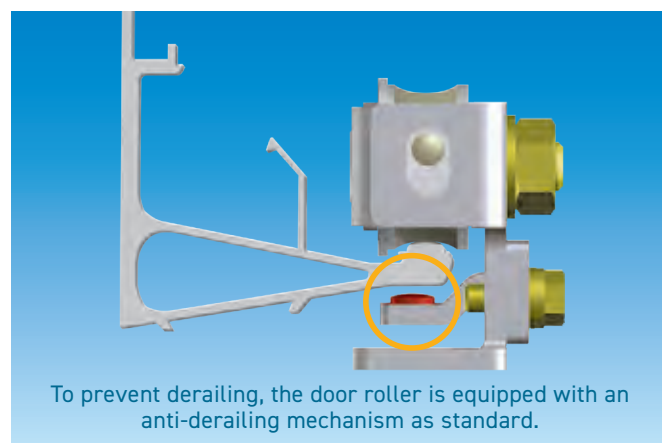※ Note: Depending on the site environment, some features and settings may not be available.

3. Long-life design and low running costs

Special design based on our abundant experience provides high durability.

Soft resin
(polyurethane)

Aluminum alloy

Employment of resin-baked doors roller and complete improvement of the door rollers and rail provide high durability and make it noiseless. The optimal design of the door roller and rail increases the anti-derailing performance and ensures safety in case of a possible collision of a pedestrian/object with the door.

※ For the drive unit of V-60/85/150SL.

Anti-derailing performance

To prevent derailing, the door roller is equipped with an anti-derailing mechanism as standard.

The flange design on one side is improved to increase the anti-derailing performance of the door.

4. New standard for automatic doors-pedestrian flow solutions.

Equipped with two sensors, NATRUS^{+e} W doors precisely detect the movement of people in the **Wide** detection area. Through the reduction of **unnecessary door opening** and provision of **excellent accessibility,** the automatic doors will contribute to improving the indoor environment and **Well-being** of people.
In addition to providing both excellent accessibility and comfort, the automatic doors also contribute to curbing global warming.

NATRUS^{+e} W

Energy conservation Improvement of the indoor environment

Comfort Accessibility

Image Sensing W

Infrared raysensor

Infrared raysensor + Image sensor

Conventional NATRUS doors (NATRUS)
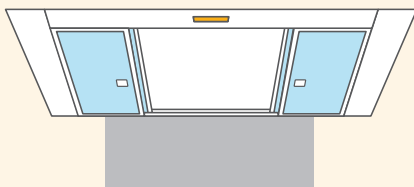
Conventional detection area

NATRUS^{+e} W

4m

5m

The sensor detection area has expanded

4 times

The NATRUS^{+e} W doors will open by predicting the vector (speed and direction) of approaching people and objects. The doors monitor the movement of people to provide them with excellent accessibility by opening at a better timing.
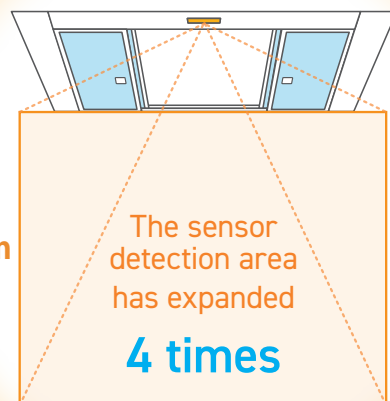
Reducing unnecessary openings

Pedestrian flow detection to determine if the doors will open or not.

Within the wide pedestrian flow detection area (5 m in width x 4 m in depth), the state-of-the-art sensing technology detects the movement of people to provide greater detection peformance. That allows automatic doors to discern who is intending to pass through and who is just standing by or passing by. The doors then open only for people wanting to pass through.

The doors will **open**.
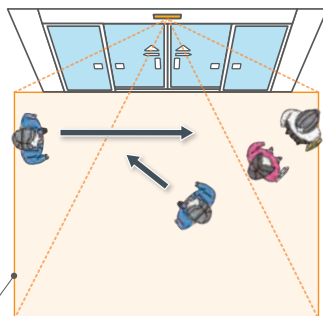
↑ Movement of people who will head toward the doors

Sensor detection area
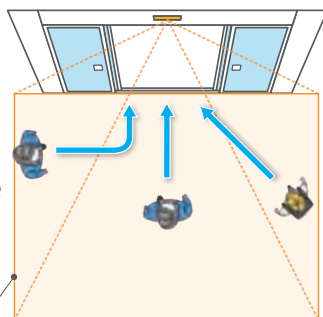
The doors will **not open**.

→ Movement of people who will not head toward the doors

Sensor detection area

Providing accessibility according to the movement

The doors will predict the pedestrian's flow for smooth opening

The Image Sensing W system appropriately estimates walking speed. By predicting the time required for the person to reach the doors, the doors will open in a timely fashion both for people walking at a normal pace and those approaching more slowly. Even for a person using a wheelchair or a cart, the doors will open at the right time to allow the person to pass through without any fuss.

At a normal speed

The doors will open by predicting the vector (speed and direction) of people and objects
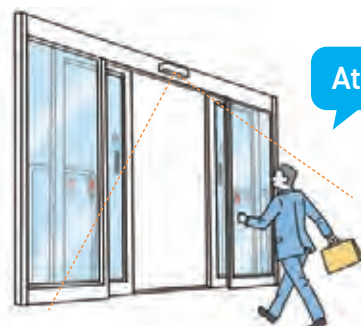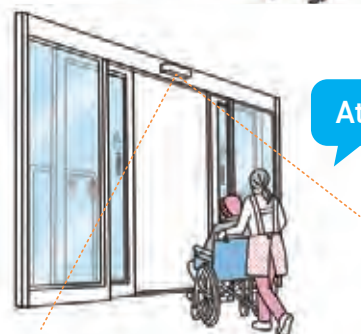
At a slow speed

Note : When a person approaches the doors from the front, the doors will open at the right time based on the person's vector (speed and direction) of approach. When a person approaches the doors from different angles, for example, from the side, the doors may open at a different timing.

Easily expand functionality by just replacing the sensors

The newly developed NATRUS⁺ᵉ W sensor is the same size as that of the conventional NATRUS sensor, so you can easily replace the conventional sensor with the new one.

NATRUS
NATRUS Sensor

▶▶▶

NATRUS⁺ᵉ W
NATRUS⁺ᵉ W Sensor

265 mm

265 mm

Improvement of the indoor environment
Reducing unnecessary automatic door openings helps reduce the inflow of hot/cold air from outside into the indoor space, thereby contributing to providing users with a stress-free and comfortable indoor environment.

Better Accessibility
Based on the prediction of the vector (speed and direction) of approaching people and objects, the doors will open in a right time, even for those using a wheelchair or a cart.

Barrier-free
No need to press the button to open the door, making it easier for the wheelchair users and cart users to pass through the doors. The doors are thus suitable for use at facilities that need to be barrier-free, such as stations, station buildings, commercial facilities and educational institutions.

V-60/85/150/250SL[Sliding Door Series]

● Front View

Bi-Parting slide

Sensor (N Search)

Power supply (230VAC±10% 2.5A) (By others)

Warning label

Automatic door label

Warning label

Power switch (By others)

Beam sensor

Door height, DH

H

h

FL+600

FL

10

Header width

(Doorframe) 25 or longer

Clear opening width, W

(Doorframe) 25 or longer

Beam sensor

25 or longer | Door stroke, DS | Door width, DW | Door width, DW | Door stroke, DS | 25 or longer

Y | | | | | Y

Single slide

Sensor (N Search)

Power supply (230VAC±10% 2.5A) (By others)

Power switch (By others)

Beam sensor

FL+600

Door height, DH

H

h

FL

10

Header width

Beam sensor

Clear opening width, W

(Doorframe) 25 or longer

Door width, DW | Door stroke, DS | 25 or longer

Y

Note: For safety, The following dimension must be ensured : Y ≧ 200

Unit : mm

● Specifications of Bi-parting and Single sliding doors

Door Type	Bi-Parting					
Product Name ※1	V-60SL	V-85SL	V-150SL		V-250SL	
Geared Motor Type	VS-60	VS-85	VS-150		VS-250	
Header Type	S / HM / F		S / HM / F	M / F ※4	M	F
Applicable Door Mass (kg) × Door Quantity ※2	60 × 2	85 × 2	120 × 2	150 × 2	250 × 2	250 × 2
Applicable Door Width : DW (mm)	650 — 2500				1200 — 2700	900 — 2700
Ratio of Door Height / Width : DH / DW ※3	Max. 4				Max. 3	
Required Power Capacity	230VAC ± 10% 2.5A ※5					
Door Operation Speed (m/sec)	0.1 — 0.7 ※6					
Wind Load (m/sec)	15m/s or less					

Door Type	Single					
Product Name ※1	V-60SL	V-85SL	V-150SL		V-250SL	
Geared Motor Type	VS-60	VS-85	VS-150		VS-250	
Header Type	S / HM / F		S / HM / F	M / F ※4	M	F
Applicable Door Mass (kg) × Door Quantity ※2	75 × 1	100 × 1	120 × 1	150 × 1	250 × 1	500 × 1
Applicable Door Width : DW (mm)	650 — 2500				1200 — 2700	1200 — 2700
Ratio of Door Height / Width : DH / DW ※3	Max. 4				Max. 3	
Required Power Capacity	230VAC ± 10% 2.5A ※5					
Door Operation Speed (m/sec)	0.1 — 0.7 ※6					
Wind Load (m/sec)	15m/s or less					

※1 Product name is combined with header type.
※2 The door should be used under conditions where the door unit weight will not exceed the value defined in the specification.
　　If the weight exceeds the specification, malfunction or accident will occur.
※3 The unit door aspect ratio should not exceed the value defined in the specification.
　　If the aspect ratio exceeds the specification, the specified performance will be impaired.
※4 Not applicable to V-150SL-F (N rail base design).
※5 With a transformer specified by NABCO.
※6 The speed varies according to the door weight or site environment.

■ VS-150SL-N (Bi-parting)

■ VS-150SL-S (Bi-parting)

● Sectional view

Surface mounted type

S type
V-60/85/150SL-S

HM type
V-60/85/150SL-HM

M type
V-150SL-M

M type
V-250SL-M

Flat bar mounted type

F type (N rail base)
V-60/85/150SL-F

F type (F rail base)
V-150SL-F

F type
V-250SL-F
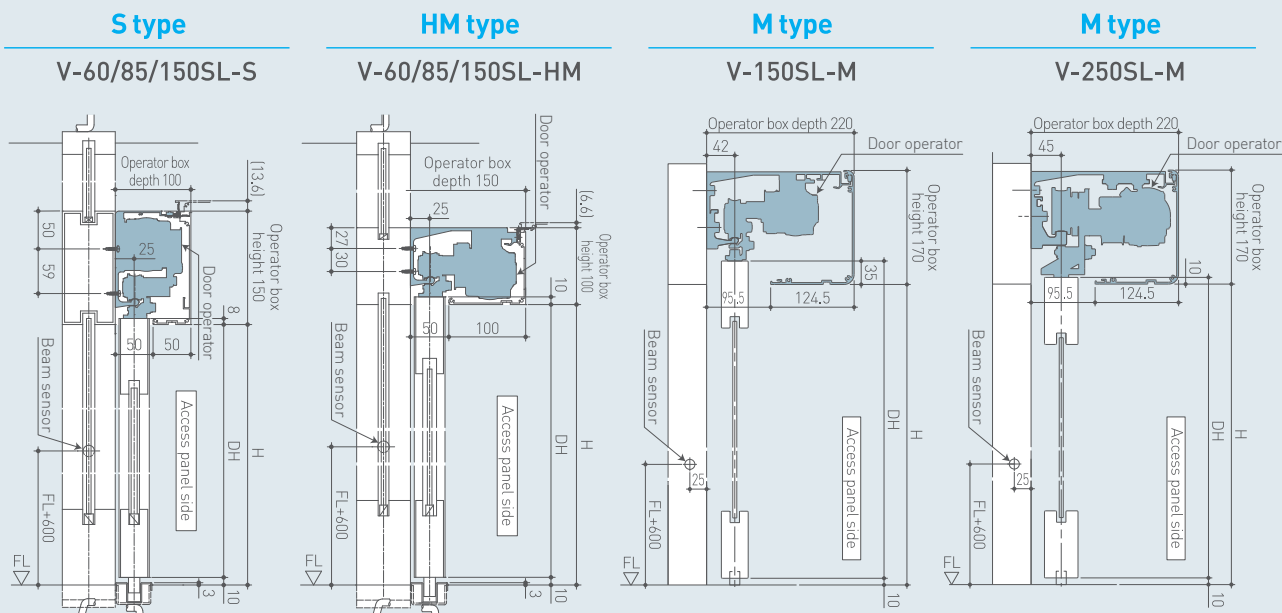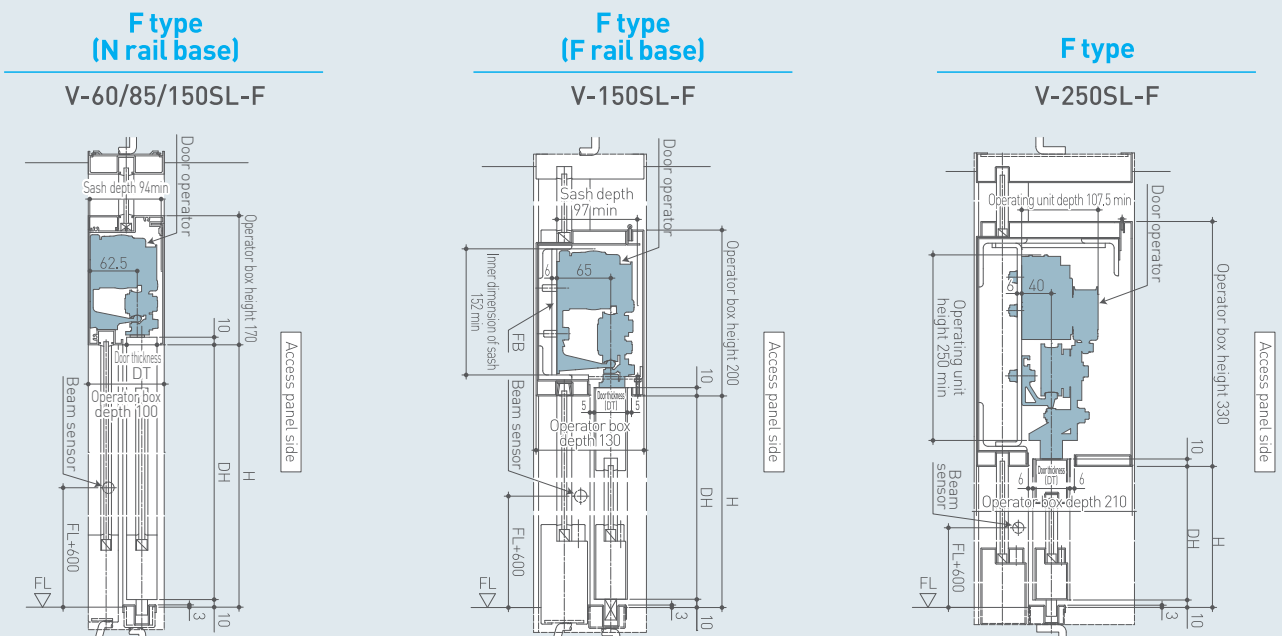
Unit : mm

● Measures for further improvement of safety

- Use safety glass such as tempered glass or laminated glass
- Install a guard (protection door) or safety fence near the fixed panel
- Mount a beam sensor

※ An maintenance hatch should be prepared when installing the drive unit in the ceiling.

● Front View

Bi-Parting slide

Operator box width (W)

Standard type: 700
Reduction type: 750

Power supply
(230VAC±10% 2.5A)
Includes ground line
(Class D).
Goes into
operator box.
(By others)

Power source
switch
(By others)

100 min

DS

Door width (DW)

Clear opening width

Door width (DW)

DS

100 min

100

3

Warning label

Sidelight warning label

FL+600

Automatic door label

Safety fence

900 min

Beam sensor

900 min

FL

100 max

100 max

Operator box width (W)

100

Clear opening width

100

Beam sensor

100 min

DS

DW

DW

DS

100 min

Single slide

Operator box width (W)

Standard type: 700
Reduction type: 750

Power supply
(230VAC±10% 6A)
Includes ground line
(Class D).
Goes into
operator box.
(By others)

Power source
switch
(By others)

Clear opening width

Door width (DW)

DS

100 min

100

Warning label

Sidelight warning label

Automatic door label

Safety fence

FL+600

Beam sensor

900 min

100 max

W

100

Clear opening width

100

Beam sensor

50

DW

DS

100 min

● Sectional view

Standard type

Sash depth 218.5 min

Operator box height 700

Inner dimension of sash 573 min

Door operator

Access panel side

9

70

Door thickness
(DT)

20

20

20

Operator box depth 450

Beam sensor

DH

900 min

FL+600

Beam sensor
Safety fence

H

20

FL

Unit : mm

Reduction gear type

Sash depth 264 min

Operator box height 750

Inner dimension of sash 648 min

Door operator

Access panel side

9

105

Door thickness
(DT)

20

20

20

Operator box depth 500

Beam sensor

DH

900 min

FL+600

Beam sensor
Safety fence

H

20

FL

Unit : mm

● Specifications of Standard type and Reduction gear type

Product Name	V-500SL			
Geared Motor Type	V-500			
Openable Type	Standard type (Elevation)		Reduction gear type (Elevation)	
Door Type	Bi-Parting	Single	Bi-Parting	Single
Applicable Door Mass (kg) × Door Quantity ※1	500 × 2	1000 × 1	1000 × 2	2000 × 1
Applicable Door Width : DW (mm)	3100	6100	6100	10100
Applicable Door Height : DH	4500		4500	
Required Power Capacity	200VAC ± 10%, 50/60Hz, 6A ※2		200VAC ± 10%, 50/60Hz, 6A ※2	
Door Operation Speed (m/sec)	0.1 − 0.5 ※3		0.1 − 0.3 ※3	
Available ambient conditions — Ambient temperature	−10 to 50℃			
Available ambient conditions — Ambient humidity	20 to 85% RH (no icing or condensation)			
Available ambient conditions — Electromagnetic field immunity	Industrial environmaent (IEC/JIS C 61000-6-2)			

※1 The door should be used under conditions where the door unit weight will not
exceed the value defined in the specification.
If the weight exceeds the specification, malfunction or accident will occur.

※2 With a transformer specified by NABCO
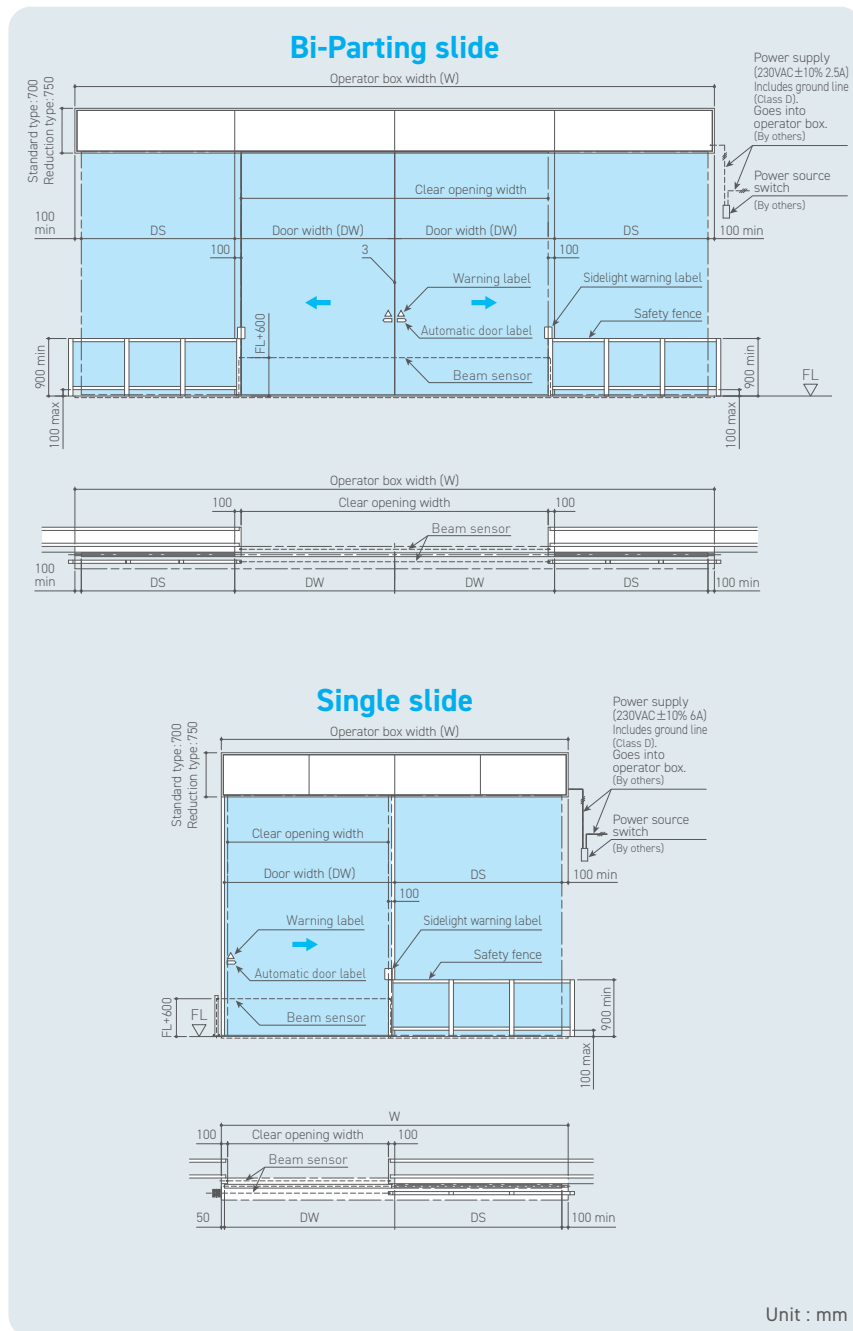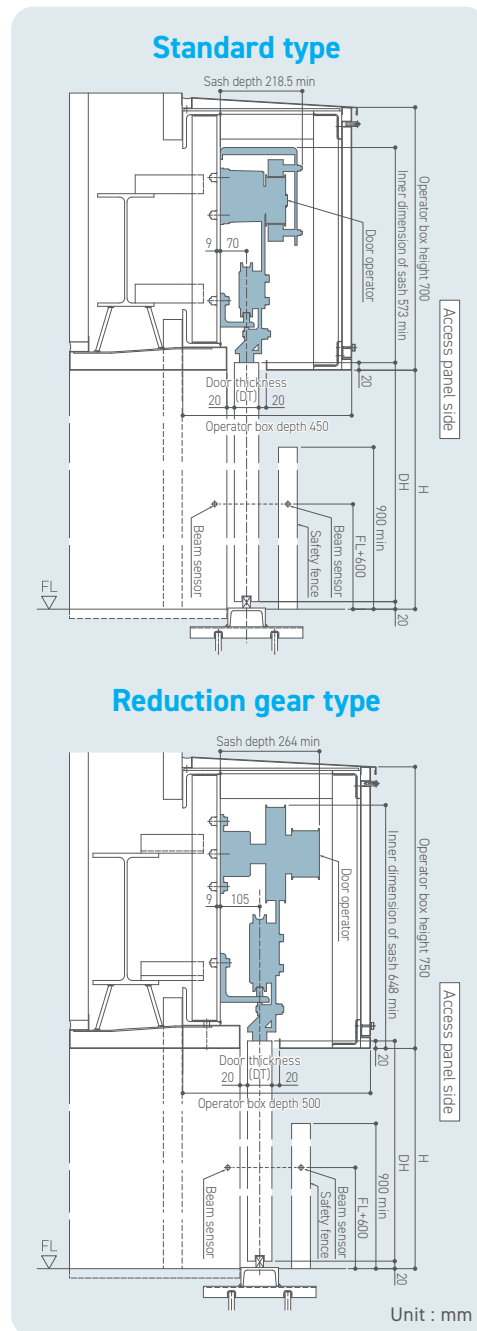※3 The speed varies according to the door weight or site environment.

● Header mount sensor, Header recessed sensor, Header bottom-mount sensor, and ceiling mount sensor

Header mount sensor NS-A01

Header recessed sensor NS-A02

Ceiling mount sensor NS-A04

Header bottom-mount sensor NS-A03

Type	N Search	
	NS-A01 / A02 / A03	NS-A04
Detection characteristics	Motion & Presence Detection (active infrared sensor)	
Mount height	When used as activation sensor : 2.0 to 4.0 m When used as safety sensor : 2.0 to 3.5 m	When used as activation sensor : 2.0 to 4.0 m When used as safety sensor : 2.0 to 4.0 m
Detection area	When mount height is 2.5 m : 3.05 m (width) × 2.09 m (depth) (reference)	When mount height is 3.0 mm : 3.04 m (width) × 2.37 m (depth) (reference)
Sensor cover color (type 01 and 03)	Silver / Bronze / White / Black / Mirror / Stainless steel color	—
Sensor color (type 02 and 04)	Black	Black
Remarks	Function: Spot-by-spot setup, Safety test before closing, Trouble indication, Full-color LED display, Eco mode, Snow / Insects mode, Touchless switch mode, Available for Circular / Folding door as well	Function: Spot-by-spot setup, Safety test before closing, Trouble indication, Full-color LED display, Eco mode, Snow / Insects mode, Available for Circular / Folding door as well

● Beam sensor

| Type	Photoelectric sensor
	NP-01
Detection characteristics	Motion / Presence Detection
Mount height	Standard height: Floor level + 600 mm
Maximum detection distance	Between photocells: 5 m (8 m: when using with NP-A001 controller)
Remarks	2 units of NP-01 are available with NP-A001 controller

NP-01

Equipped with the Image Sensing W technology

● Header mount sensor, Header recessed sensor, and Header bottom-mount sensor

Header mount sensor NSW-A01
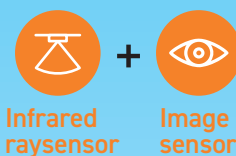
Infrared raysensor + Image sensor

Header recessed sensor NSW-A02

Header bottom-mount sensor NSW-A03

Type	N Search W		
	NSW-A01	NSW-A02	NSW-A03
Mounting position	Motion & Presence Detection		
Detection method	Motion & presence detection (Image Sensing W) Pedestrian flow detection [1,2] using both infrared and image sensors Adoption of near infrared reflectance method in the protection area near the door		
Mounting height [3]	2.0 to 3.5 m		
Detection area [4]	5 m in width x 4 m in depth (fixed regardless of the mount height)		
Sensor cover color (type 01 and 03)	Silver / Bronze / White / Black / Mirror / Stainless steel color	—	Silver / Bronze / White / Black / Mirror / Stainless steel color
Sensor color (type 02)	Black		
Remarks	Functions to: prevent snow, rain, fog, etc. from causing erroneous operations; to prevent the doors from being kept open due to changes made to the floor; to conduct a safety test for each opening & closing; to signal a machine problem; to monitor the doorway; full-color LED display		

[1] Images captured by the product are used only for the purpose of predicting movement, speed and direction based on the size of the target object. Data derived from the images does not contain any information pertaining to personal characteristics or that could be used to identify individuals. Captured images are deleted immediately.
[2] The movement detection timing may vary depending on the brightness of the surrounding area.
[3] The mount height may be limited depending on the installation environment.
[4] For the detection area for which the near infrared reflectance method is adopted, specifications set for the N Search sensor will be applied.

● PL-type electric lock (option)

The PL-type electric lock is a device that keeps the door closed by restraining the driving belt firmly coupled to the door with the electromagnetic lock built into the idler pulley.

PL-type
electric lock
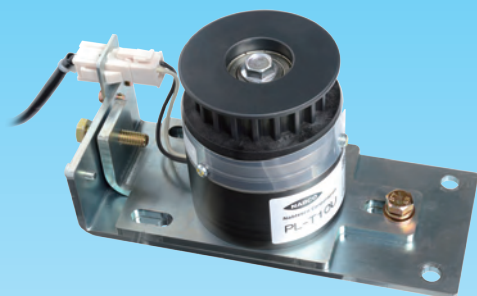
Locking / unlocking condition	Fail safe (unlock at power off)
Structure of locking mechanism	Electromagnetic brake with tooth
Locking / unlocking monitor output	When the power is on : Make or Break can be selected.
Forced unlocking input	Non-voltage a / b contact

● SKD-type electric lock (option)

The SKD-type electric lock operates the dead bolt by supplying power to the solenoid to lock and unlock the door. It is possible to provide the locking/unlocking monitor output even during a power interruption (option).
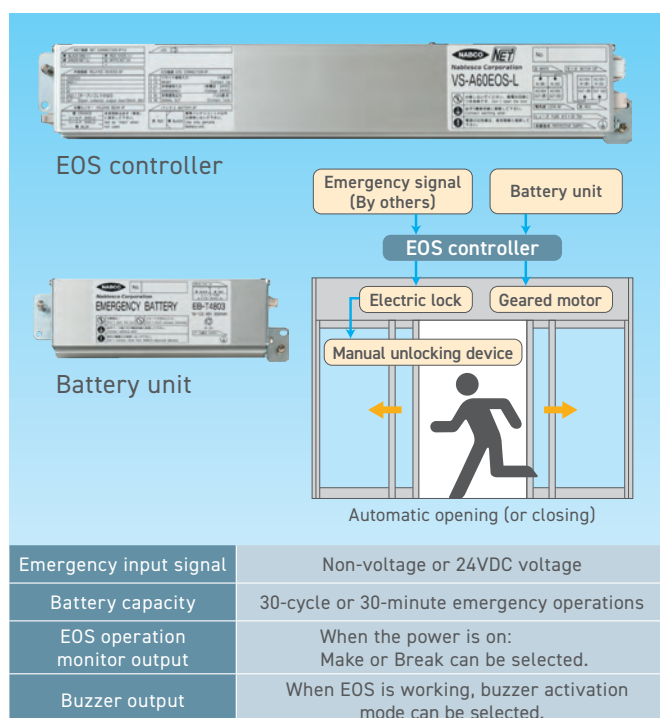
SKD-type
electric lock

Locking / unlocking condition	Fail secure / safe (lock/unlock at power off)
Structure of locking mechanism	Dead bolt
Locking / unlocking monitor output	When the power is on: Make or Break can be selected. When the power is off: Non-voltage 1c contact (option)
Forced unlocking input	Non-voltage a / b contact
Manual unlocking device	Option for unlocking at power off

● EOS Emergency Operation System (option)

The EOS Emergency Operation System is a control unit that detects the emergency signal or the interruption of power to open (or close) the door in an emergency. When the door is manually opened while in emergency closing mode, it is automatically closed again. (This function is excluded from the requirements of escape routes and emergency exits in EN 16005.)

EOS controller

Battery unit

Automatic opening (or closing)

Emergency input signal	Non-voltage or 24VDC voltage
Battery capacity	30-cycle or 30-minute emergency operations
EOS operation monitor output	When the power is on: Make or Break can be selected.
Buzzer output	When EOS is working, buzzer activation mode can be selected.

● APS-type Program Switch (option)

Color LCD offers excellent visibility for switching the automatic door mode.

APS-A10

Application operators	NATRUS / NET-DS
Program mode	Auto, Hold open, One-way, Manual, Night (Lock)
Languages	English, Chinese, Korean, Thai, Vietnamese, Indonesian, Russian
Security Code	Passcode

Specifications

● Applicable doors

		Max. door weight	Max. area of a single door	Max. ratio of door height / width	Door width
V-60SL-S/HM/F	Single	75 kg × 1	2.2 ㎡	4	650 — 2500 mm
	Bi-parting	60 kg × 2	1.8 ㎡		
V-85SL-S/HM/F	Single	100 kg × 1	2.8 ㎡		
	Bi-parting	85 kg × 2	2.6 ㎡		
V-150SL-S/HM/F	Single	120 kg × 1	3.3 ㎡		
	Bi-parting	120 kg × 2	3.0 ㎡		
V-150SL-M/F ※1	Single	150 kg × 1	3.3 ㎡		
	Bi-parting	150 kg × 2	3.0 ㎡		
V-250SL-M/F	Single	250 kg × 1	9.3 ㎡	3	1200 — 2700 mm
	Bi-parting	250 kg × 2	5.0 ㎡		900 — 2700 mm
V-500SL — Standard type	Single	1000 kg × 1	27.45 ㎡	—	6100 mm ※2
	Bi-parting	500 kg × 2	13.95 ㎡		3100 mm ※2
V-500SL — Reduction gear type	Single	2000 kg × 1	45.45 ㎡	—	10100 mm ※2
	Bi-parting	1000 kg × 2	27.45 ㎡		6100 mm ※2

※1 Not applicable to V-150SL-F (N railbase design)
※2 Max door hight 4500 mm

● Technical data

	V-60/85/150/250SL	V-500SL
Header height	V-XXSL-S : 150 mm V-XXSL-HM : 100 mm V-XXSL-M : 170 mm	Standard type : 700 mm Reduction gear type : 750 mm
Header depth	V-XXSL-S : 100 mm V-XXSL-HM : 150 mm V-XXSL-M : 220 mm	Standard type : 450 mm Reduction gear type : 500 mm
Opening / closing speed	0.1 — 0.7 m/s	Standard type : 0.1 — 0.5 m/s Reduction gear type : 0.1 — 0.3 m/s
Hold-open time	0 — 50 sec.	0 — 50 sec.
Required power capacity	230 VAC ± 10% 2.5A	230 VAC ± 10% 6A
Power consumption	39Wh (V-60SL) , 42Wh (V-85SL), 52Wh (V-150SL) * reference	120 Wh reference
Ambient temperture	−20℃ to 50℃	−10℃ to 50℃
Ambient humidity	20 to 90% RH (no icing or condensation)	20 to 85% RH (no icing or condensation)
Wind load	15 m/s or less	15 m/s or less
Complying with	EN 16005, JIS A4722	IEC/JIS C 61000-6-2

● Basic module

Microcomputer control	✔
CAN transmission network	✔
Connections with controller	✔ * Input: 2, Output: 1, Beam sensor: 1
Self-diagnosis function	✔ * trouble indication on sensors
Self-test for safety sensors	✔ * trouble indication on sensors
Wireless setting	✔ * with Android device
Saving history data of operation	✔
Brushless DC motor	✔ * no need to replace brush
Thermal protector	✔
Anti-derailing performance	✔
ECO mode (for activation device)	✔
Spot-by spot setup of sensor	✔
Touchless switch mode	✔
Interlocking mode	✔
Hand-move mode (semi-automatic)	✔
Simultaneous mode	✔

● Optional module

Electric lock (lock with dead bolt)	✔
Electric lock (lock with idler pulley)	✔
2 units of Beam sensor	✔
Emergency operation	✔ * with battery unit
Program switch	✔
Additional connections	✔ * Input: 3, Output: 2

Cautions

For safe operation when using automatic doors

1. Don't halt !
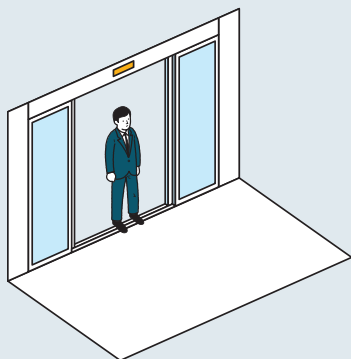
Do not stop on the door way.

2. Don't run in !

Do not rush through the door.
Do not cross the door diagonally.

3. Don't play near automatic door !

Do not stand talking near the door.
Do not let children play near the door.

4. Don't lean on the automatic door !

Do not lean on the door, the screen or the wall
nearby nor step on them.

5. Accompany your children !

For small children, grownups should take
their hands when passing through the door.
Extra care should be taken for people with
visual or physical disabilities.

6. Pay attention to the door !

Be careful so that fingers will not be caught in
the leading or rear edge of the door.

Pedestrian
Flow
Solution

Nabtesco Corporation

Accessibility Innovations Company

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For further details, please contact:

All specifications herein are subject to change without notice