N Search

Motion & Presence Detection Sensor

Advanced automatic door sensor to enhance safety and comfort.
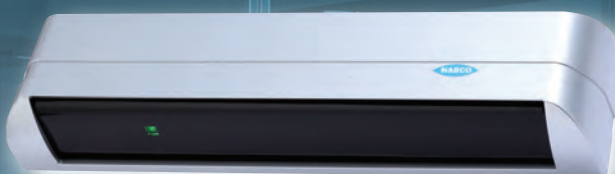
(With self-test feature complying with EN16005 and JIS A 4722)

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Thanks to NABCO's expertise in automatic door sensor technologies, N Search offers the highest performance more than complying with EN16005 / JIS A 4722.
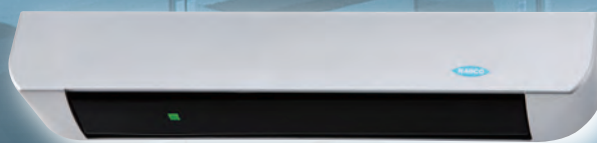
LINEUP

NS-A01
Header mount sensor

NS-A02
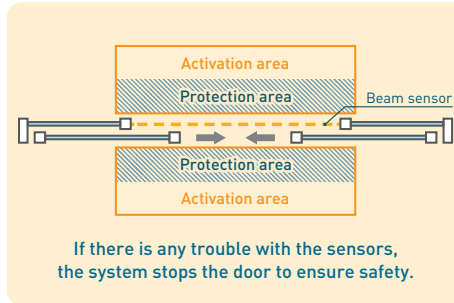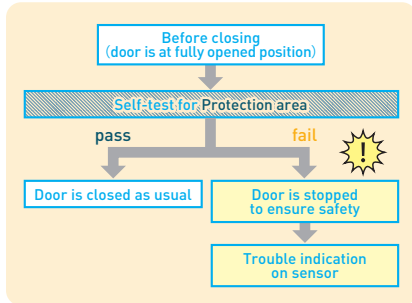Header recessed sensor

NS-A03
Header bottom-mount sensor

NS-A04
Ceiling mount sensor

Self-test feature   EN16005 / JIS A 4722

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

```
Before closing
(door is at fully opened position)
        ↓
Self-test for Protection area
   pass            fail        ⚠
    ↓               ↓
Door is closed   Door is stopped
as usual         to ensure safety
                    ↓
            Trouble indication
               on sensor
```

Activation area
Protection area   Beam sensor
Protection area
Activation area

If there is any trouble with the sensors, the system stops the door to ensure safety.
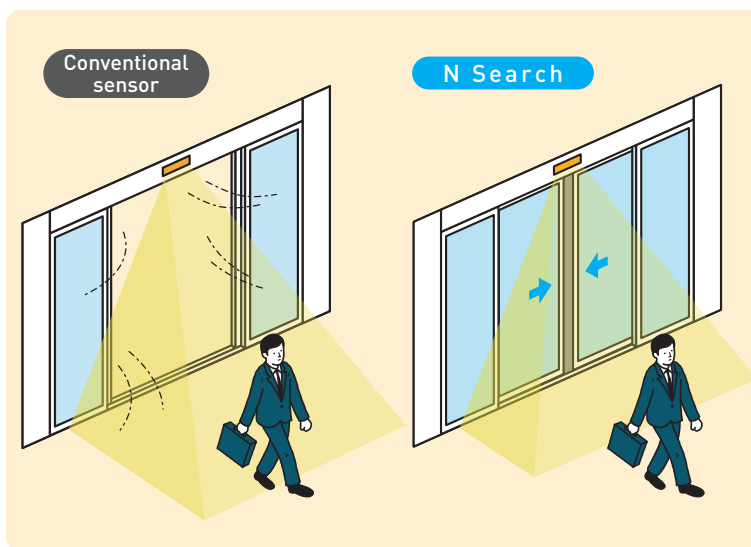
Trouble indication on sensor   Advantage

If there is any trouble 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.

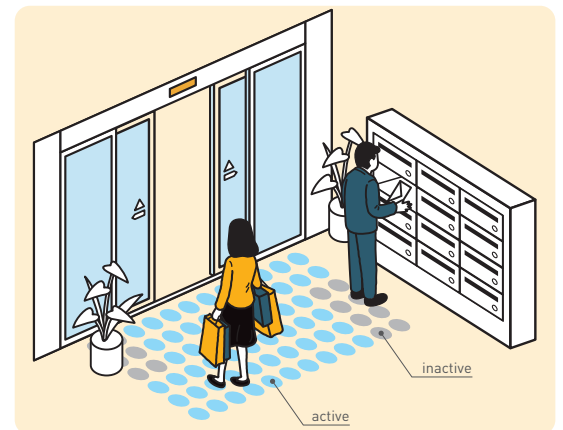LED blinks to show occurrence of trouble

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 sensor

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Spot-by-spot setup of sensor with 72 independent spots   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

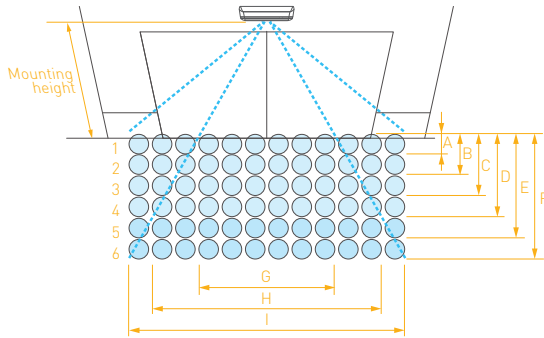## Touchless switch mode   Advantage

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-A 01 / 02 / 03）.

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.

Note : All these functions are available when used with NATRUS Automatic door operator made by Nabtesco.

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Motion & Presence detection sensor for higher safety and comfort

Detection area （72 independent spots）

※Mounting height shows the height of where sensor is mounted.

Detection area size（Reference）

(mm)
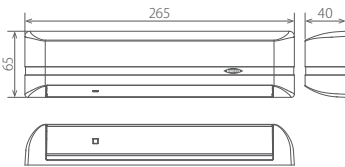
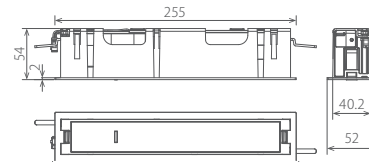| Mounting height		2.0m	2.2m	2.5m	3.0m	3.5m	4.0m
Depth	A	180	198	225	270	315	360
	B	450	490	560	670	780	890
	C	710	790	890	1,070	1,250	1,430
	D	970	1,070	1,220	1,460	1,700	1,950
	E	1,270	1,400	1,590	1,910	2,230	2,550
	F	1,670	1,840	2,090	2,510	2,930	3,350
Width	G	1,110	1,220	1,380	1,660	1,940	2,210
	H	1,970	2,170	2,470	2,960	3,450	3,950
	I	2,440	2,680	3,050	3,660	4,270	4,880

※ The above values are obtained when the area adjuster is set at zero degree.
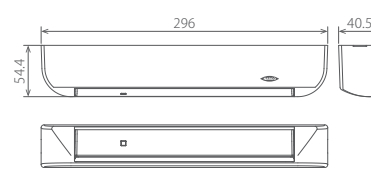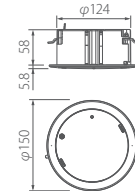※ For NS-A01 / A02 / A03

Dimensions （mm）

● NS-A01
● NS-A02
● NS-A03
● NS-A04

Specifications

Type	N Search	
	NS-A01/A02/A03	NS-A04
Detection characteristics	Motion & Presence Detection （active infrared sensor）	
Mounting height	When used as activation sensor : 2.0 to 4.0m When used as safety sensor : 2.0 to 3.5m	When used as activation sensor : 2.0 to 4.0m When used as safety sensor : 2.0 to 4.0m
Detection area	When mount height is 2.5m : 3.05m（width）× 2.09m（depth）(reference)	When mount height is 3.0m : 3.04m（width）× 2.37m（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

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ISO9001・ISO14001 Certified

For further details, please contact:

All specifications herein are subject to change without notice