

NET-DS System

Automatic Sliding Door Operator

NABCO's Advanced Technology to enhance comfort and safe operations of automatic doors.

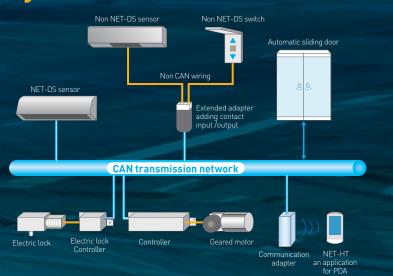


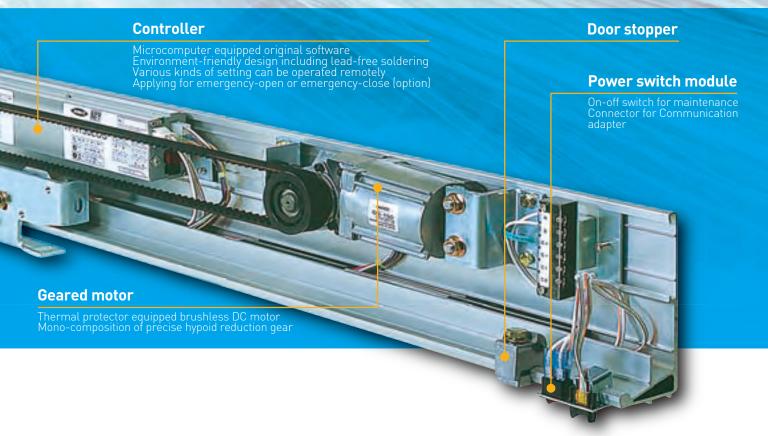
NABCO NET-DS System

NABCO "NET-DS" is the advanced system of automatic door to provide the "complete entrance." "NET-DS" adopts CAN* transmission and PDA with the sophisticated application.

Easier installation and maintenance together with upgraded functionality and higher safety are realized.

* CAN stands for Controller Area Network. It is a serial communication protocol standardized by ISO, and used in auto industry, etc. CAN has such features as "simple connection", "high reliability" and "real-time transmission."







Standard Sliding		
DSN-60	-S -N	Surface mount Concealed side / flat bar mount
DSN-75	-S -N -F	Surface mount Concealed side / flat bar mount Concealed flat bar mount
DSN-150	-S -N -F12, -F15	Surface mount Concealed side / flat bar mount Concealed flat bar mount
DSN-250		Concealed flat bar mount
Telescopic Sliding DSN-60, DSN-75, DSN-150	DS-D2S DS-D2	Surface mount Concealed flat bar mount
Circular Sliding DSN-75, DSN-150	Eu	Concealed flat bar mount

Wide range of doors

NET-DS door operators are available from less than $60 \, \mathrm{kg}$ to up to $250 \, \mathrm{kg}$.

- -DSN-60 For lighter doors such as stores
- -DSN-75 For medium doors such as office buildings
- -DSN-150/DSN-250 For heavy doors up to 150kg/250kg such as large buildings

High-power brushless DC motor

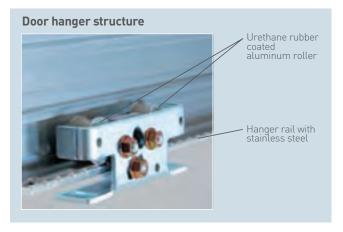
High-performance, compact and powerful motor provides smooth and comfortable atmosphere to passers-by.

Thermal protector

Thermal protector prevents a damage to the door operator. When the excess load is detected, the door operator will have the door slow down. As far as operation continued, passers-by can walk through. After the excess load removed, the door speed will recover automatically.

Door hanger structure

The hanger rail made of stainless steel attached to the aluminum rail base and the durability was enhanced. The quieter operation is also realized by adopting resin coated aluminum rollers in the door hanger.



Components



DSN-75S Basic Set



Bi-parting accessory

NET-HT, an application for PDA

NET-DS System adopts NET-HT which works as an application for PDA compatible with Windows Mobile 6

NET-HT, the exclusive application allows PDA to set and adjust sliding door through communication adapter with Bluetooth wireless connectivity. (To be used by NABCO sales distributors)

Functions

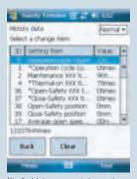
- -All settings are selectable and visible with NET-HT.
- -All information is transmitted to the application.
- -Precise setting and simplified adjustment are available. (fig.1
- -Digital control allows for monitoring the controller status. (fig.2
- -All information is recorded and viewable. (fig.3











(fig.3 Data storage

(fig.3 Maintenance information

Optional devices



APS-N20 Advanced Program Switch

APS-N20 makes sliding doors much more convenient to use. With color LCD, automatic doors can be easily operated in the most suitable way.



APS-N1 Advanced Program Switch

Because of a low-profile device, APS-N1 is available for surface mounting.



SKD-2 Electric Lock

SKD-2 and KD-N controller

SKD-2 is a compact electric deadbolt lock for sliding door. Fail-secure type and Fail-safe type are available. This lock is controlled by KD-N controller with NET-DS System. Easier installation and improved reliability are achieved.



EOS Emergency Operating System

EOS controller and battery unit

EOS operates sliding door at a power failure or in an emergency condition. EOS controller and battery unit are required for the operation of EOS emergency control. If a power failure or EOS controller receives an emergency signal, the system will operate the door either open or close using the power from the battery unit.

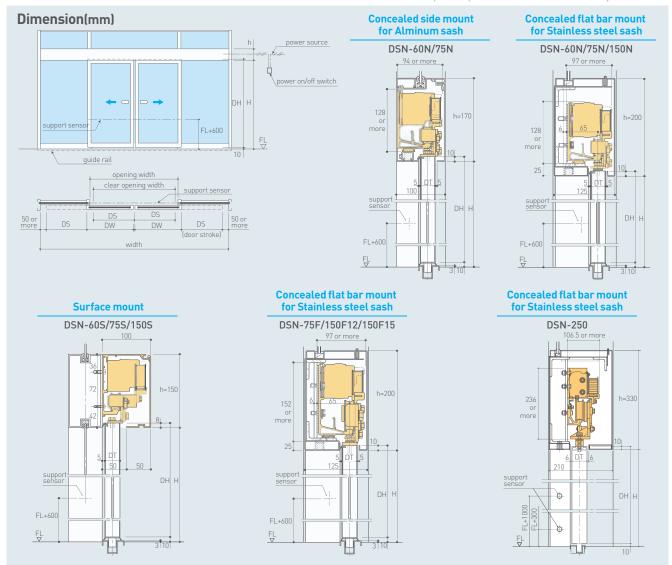
Standard sliding





Door Operator Type DSN-60 DSN-75 DSN-150 DSN-250 DSN-60 DSN-75 DSN-150 DSN-250 DSN-60 DSN-75 DSN-150 DSN-250 DSN-60 DSN-60 DSN-75 DSN-150 DSN-250 DSN-250 DSN-60 DSN-60 DSN-75 DSN-150 DSN-250 DSN-250 DSN-250 DSN-250 DSN-60 DSN-75 DSN-150 DSN-250
Applicable Door Area : DW×DH (m²) 2.2 2.8 3.3 5 1.8 2.6 3.0 5
Applicable Door Width : DW (mm) 650 ~2500 1200 ~3100 650 ~2500 900 ~2500
Applicable Door Height : DH (mm) —
Ratio of Door Height / Width: DH / DW Max. 4.0 Max. 3.0 Max. 4.0 Max. 3.0
Power Supply 100V AC \pm 10%, 50 / 60Hz, 5A 100V AC \pm 10%, 5D / 60
Average Door Operation Speed (m/sec) 0.4 or less (Adjustable) *1 0.4 or less (Adjustable) *1
Maximum Endurance Wind Speed (m/sec) 15 15

*1 Operation speed between 0 mm and 600 mm *2 Only for DSN-150 F15



Telescopic sliding



Single		Bi-Parting				
DSN-60*1	DSN-75	DSN-150	DSN-60*1	DSN-75	DSN-150	
50 x 2	65 x 2	100 x 2	40 x 4	55 x 4	100 x 4	
1.6	2.1	2.4	1.4	1.9	2.2	
500~600*2	500~800*2	500~1000*2	500~550*2	500~650*2	500~1000*2	
—						
Max. 4.2						
100V AC \pm 10%, 50 / 60Hz, 5A						
0.38 or less (Adjustable)			0.35 or less (Adjustable)			
15						

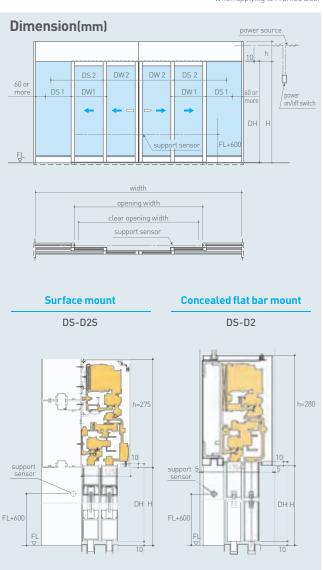
- *1 Indoor use only *2 When applying to Framed Door

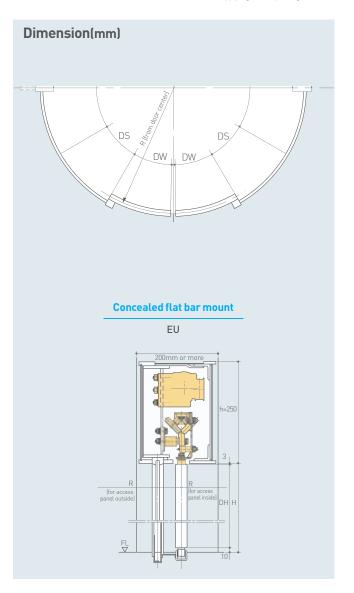
Circular sliding



Sin	gle	Bi-Pa	rting		
DSN-75	DSN-150 DSN-75 DSN-150				
75 x 1	75 x 1 100 x 1		100 x 2		
_					
762 ~1067 *1					
Max. 2438 *1					
Max. 3.0					
100V AC \pm 10%, 50 / 60Hz, 5A					
0.4 or less (Adjustable)					
10					

*1 When applying to Tempered glass Door





MS-N01 M Search

- -Full color LED display, Replacement time display
- -Self-diagnosis function, Eco mode
- -Anti-snow/insects mode, Anti-vibration mode
- -Independent 72 spots, Doorway area monitoring for unique door design, Contact-free touch sensor function, Measure against insertion mode



Detection method	Motion / Presence Detection (Near Infrared reflection method)
Mounting height	2.0m~4.0m
Detection area	$W2.9m \times D1.8m$ (Mounting height 2.2m)
Power supply/ Power consumption	120mA or less at 12VDC
Output rating	NET-DS connector

Detection area Dimensions (mm)

(reference value) Mounting 2.0 2.2 2.5 3.0 3.5 4.0

A	100	110	120	150	170	200
В	390	430	480	580	670	770
C	550	720	820	980	1,150	1310
D	960	1050	1200	1440	1,680	1920
E 10	300	1430	1620	1950	2,270	2590
F 1	500	1820	2070	2490	2,920	3320
G 11	220	1350	1530	1840	2,150	2450
H 2	100	2320	2630	3160	3,690	4210
1 20	540	2900	3300	3960	4,620	5280

Mass : 260g

Detection area size

(reference value)

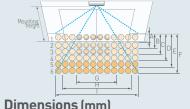
iS-N4000 iSearch

- Independent 72 spots
- Eco mode



Detection method	Motion / Presence Detection (Near Infrared reflection method)			
Mounting height	Max. 4.0m			
Detection area	Max. W 2.5m x D 1.31m [Mounting height 2.4m]			
Power voltage	12V DC ± 10%			
Current consumption	110mA or less			
Output rating	NET-DS connector			

Detection area (mm)



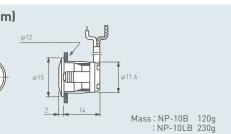
545 D 660 1,730 1,090 1.280 1,700 3,240 1,630 3.090 4.120

Dimensions (mm)



Mounting hole : ϕ 128-130mm Ceiling thickness : 2-25mm Mass : 330g





NP-10/NP-10LB Beam Sensor

-Simple and reliable



Model	NP-10B	NP-10LB*1		
Detection method	Motion / Presence Detection (Near Infrared reflection method)			
Distance between photocells	Max. 5.0m	Max. 8.0m		

^{*1} NP-10LB works with the exclusive controller.

Display on NET-HT

Area setting (MS-N01)



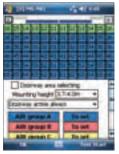
The detection area can be set spot by spot. (=AIR field) Easy and accurate adjustment are available.

Preset selection



Preset for sliding door, circular door and folding door are available

Real-time monitoring for confirmation of detection area



Standby



become green and Detected AIR fields become pink.

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