

# Kefren

Automatic accesses



Empresas Carbone S.A.  
Distribuidor Exclusivo



CE

ISO 9001





## Automatic sliding door mechanism

Code  
D-HH150 KIT



## Parts included in the kit

## Product Features Advanced

### Controller



### Engine



24V-55W

### Function control



Digital with password

### Sensors



technology. • Self-learning technology. • Display for easy parameter adjustment. • The fastest and easiest installation on the market. • High-performance, durable motor. • Quiet motor (less than 40 dB).

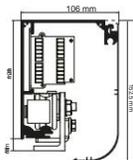
## Terminals to connect:

- Photocell
- Electronic lock •
- Password access control •
- Card and push button • Remote control • Anti-collision sensor • Fire alarm • UPS emergency battery

## Perfil con cobertor



Length of 4.2 m.



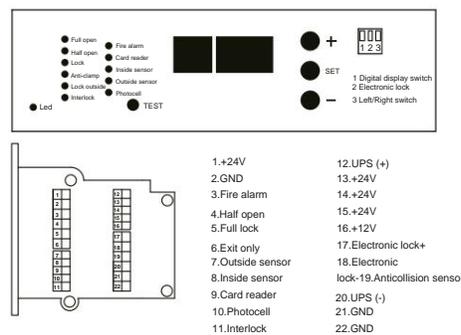
## Hardware and parts



## Specs

Mode	A single sheet	Double sheet
Weight of each sheet	Max 150 Kg x 1	Max 140 Kg x 2
Width of each leaf	700 -1300 mm	600 - 1250 mm
Feeding	AC 110-250V 50-60 Hz	
Opening speed	15-45 cm/s (Adjustable)	
Closing speed	15-43 cm/s (Adjustable)	
Opening time maintained	0-9 seconds (Adjustable)	
Manual opening force	Minor 40 N	Minor 50 N
Engine	24V, 55W Brushless DC Motor	
Consumption	Less than 150 W	
LCD control panel with password	5 functions: automatic, half open, exit only, closed, open	

## Connection details





## Optional accessories

### Emergency battery (UPS)



#### D-BT01

Batteries

- 2 12V batteries
- Electronic shift controller
- Works for 3 hours or 100 open/close cycles.

### Electronic lock (e-lock)



#### D-LC02

Electronic lock (e-lock)

- Operating current: 0.12 A
- Current signal: 0.75 A
- Size: 200\*34\*42mm(L\*W\*H)



### Remote control



#### D-FC04

Remote Control

- Source: 12-36 V
- Code learning mode
- Working frequency: 433 MHz
- Transmission Distance: 25 m
- 4 Buttons

### Push button switch with LED (stainless steel)



#### D-PB02-2

Wired Push Button Switch (Stainless Steel)

- With LED light
- Weight: 28 g.
- Size: 87\*24\*33mm (L\*W\*H)



#### D-PB02-1

Wired Push Button Switch (Stainless Steel)

- With LED light
- Weight: 60 g.
- Size: 84\*84\*35mm (L\*W\*H)

### Infrared Switch (Contactless)



#### D-PB05

Non-Contact Sensor

- Power Supply: DC 12V • Operation: Infrared Sensor • Working Distance: 1-15cm • Weight: 83g • Size: 89\*89\*37mm (L\*W\*H)

### Plastic card and code reader



#### D-AK02

Access Panel (plastic) • Power supply: DC

- 12 V • Capacity: 500 users

### Steel card and code reader Stainless steel waterproof



#### D-AK05

Access Panel (Waterproof) • Power Supply: DC 12-24V •

- Capacity: 3000 users

### Manual lock



#### D-LC01

Metal manual lock

- Manual closing
- Opens with key

### Glass clips without drilling



#### D-GC01 (pair)

Glass clip (180 mm)

- Glass connector and bearing for frameless doors
- 2 Clips per glass sheet



#### D-GC02 (pair)

Glass clip (1000 mm)

- Glass connector and bearing for frameless doors
- 1 Clip per glass sheet

### Door guides



#### D-EP01 (pair)

Frame Guide •

- Size can be adjusted from 8 mm to 40 mm. • Suitable for door frames.



#### D-EP02 (pair)

Guide for glass

- Suitable for glass doors. Max 15 mm



## Spare parts

Replacement bearing  
**D-SR**



Microprocessor controller  
**D-HH150 Controller**



Replacement engine  
**D-HH150 engine**



Timing belt 9 m  
**D-BELT9M**



LCD function controller  
**D-FC06**

LCD function controller.

Functions:

- Open
- Half open • Exit only
- Locked

- Automatic

Contraseña puede ser modificada.  
Initial password: 12345



## Frameless glass doors



Optex sensor with photocells  
**D-MS03 (unit)**



Optex motion sensor with 4 integrated photocells (unit).  
Avoid having to install photocells on the automatic door.

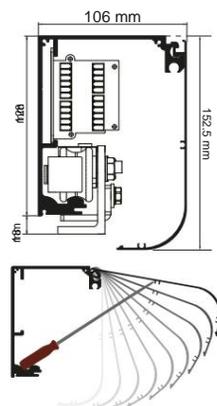
Microwave Carbone Sensor  
**D-MS77 (unit)**



Dual function sensor: infrared and microwave type.  
Mounting height: 2m - 3.5m.  
IP rating: IP54.

Rail with cover and caps  
**D-track & cover**

Length of 4.2 m



## Automatic doors





## Automatic swing door operator 110V



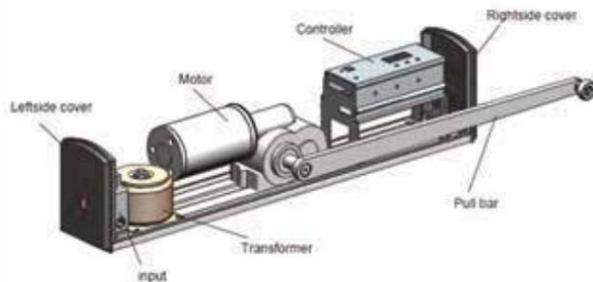
- A: Automatic
- B: Total Closure
- C: Totally Open
- D: Opened once

Code  
D-SW200-110V

Includes 2 remote controls

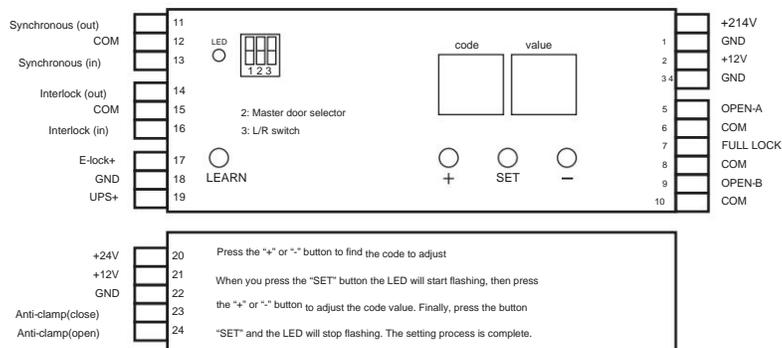
### Specs

- Power supply: AC 110 V
- Speed: 3-10 s.
- Opening time: 1-60 s. • Protection class: IP12D. • Maximum door width: 1100 mm. • Dimensions: 515 x 95 x 80 mm (L x H x W) • Maximum door weight: 90 kg. • Weight: 6.5 kg.



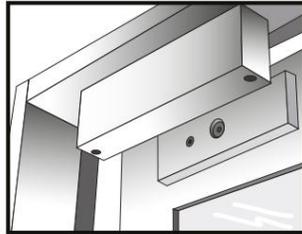
Compatible with all Accessories of:

- Automatic doors •
- Radars •
- Access controls • Cards





### 600 lbs electromagnetic lock



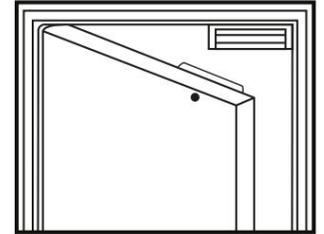
*Includes LED and sonic signal*

Code  
**NE-280S(Led-Buzzer)**

**Specifications • Dimensions:** 250x48x25 mm (L\*W\*H) • **Armor plate:** 180x38x11 mm (L\*W\*H)

- **Voltage:** DC 12 V or DC 24 V (Adjustable) • **Consumption:** 12 V/500 mA 24 V/250 mA
  - **Output:** Dry contact, Maximum contact current flow 3 A • **LED** indicates that the door is unlocked, green indicates locked • **Timer:** options 0/3/6/9 seconds • **For use:** Wooden, glass, metal, fire doors • **Surface temperature:** • **Operating temperature:** • **Suitable humidity:** 0~90% (non-condensing) •  $\leq +20^{\circ}\text{C}$
- Weight:** 2 Kg. -10~+55°C (14-131°F)

### 1200 lbs electromagnetic lock



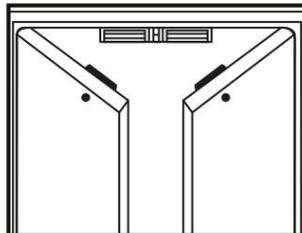
*For large doors. Includes LED*

Code  
**NE-600ST(LED)**

**Specifications • Dimensions:** 266x67x39 mm (L\*W\*H) • **Armor plate:** 185x57x13 mm (L\*W\*H) • **Holding force:** 600 Kg. - 1200 Lbs • **Voltage:** DC 12 V or DC 24 V (Adjustable) • **Consumption:** 12 V/420 mA 24 V/210 mA

- **Output:** Dry contact, Maximum contact current flow 3 A • **LED** indicates that the door is unlocked, green indicates locked • **Timer:** options 0/3/6/9 seconds • **For use:** Wooden, glass, metal, fire doors • **Surface temperature:** • **Operating temperature:** • **Suitable humidity:** 0~90% (non-condensing) •  $\leq +20^{\circ}\text{C}$
- Weight:** 4.5 Kg. -10~+55°C (14-131°F)

### Electromagnetic lock for double doors



*Includes LED (600 lbs x 2)*

Code  
**NE-280DS(LED)**

**Specifications • Dimensions:** 500x42x25 mm (L\*W\*H) • **Armature Plate:** 180x32x11 mm (L\*W\*H) • **Holding Force:** 280 Kg. - 600 Lbs • **Voltage:** DC 12 V or DC 24 V (Adjustable) • **Consumption:** 12 V/480 mA x 2 24 V/240 mA x 2 • **Output:** Dry contact, Maximum contact current flow 3 A • **LED** indicates door is unlocked, green indicates locked • **Timer:** 0/3/6/9 seconds options • **For use:** Wooden, glass, metal, fire doors • **Surface Temperature:** • **Operating Temperature:** • **Suitable Humidity:** 0~90% (non-condensing) • **Weight:** 4 Kg.

$\leq +20^{\circ}\text{C}$   
-10~+55°C (14-131°F)





### Adapter for glass doors



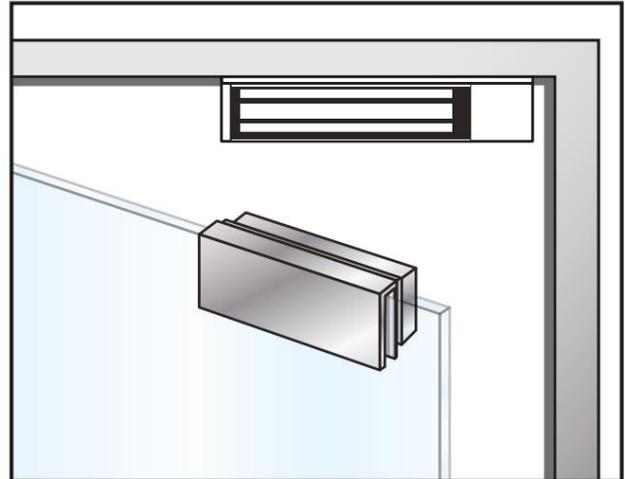
Code

**NUB-280** = For 600 lbs and 1200 lbs magnets

**Specifications** • U-bracket

is for frameless glass. • Material: High-strength aluminum. • Housing finish: Anodized aluminum.

### Installation example:



### Z-shaped adapter

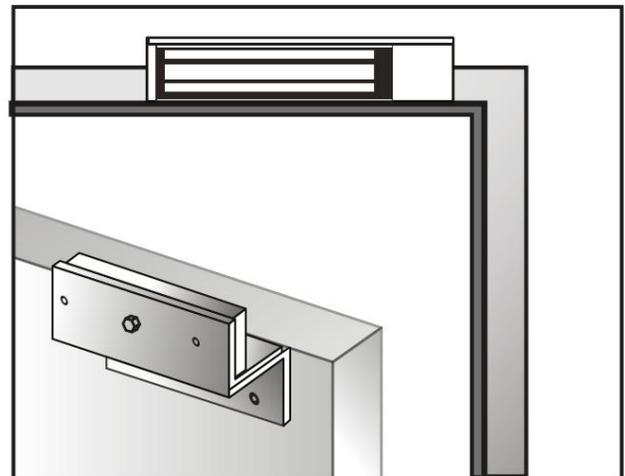


Code

**NZB-280** = For 600 lbs magnets **NZB-600** = For 1200 lbs magnets

**Specifications** • Z-bracket is for

swing doors. • Material: High-strength aluminum. • Cover finish: Anodized aluminum.



### L-shaped adapter

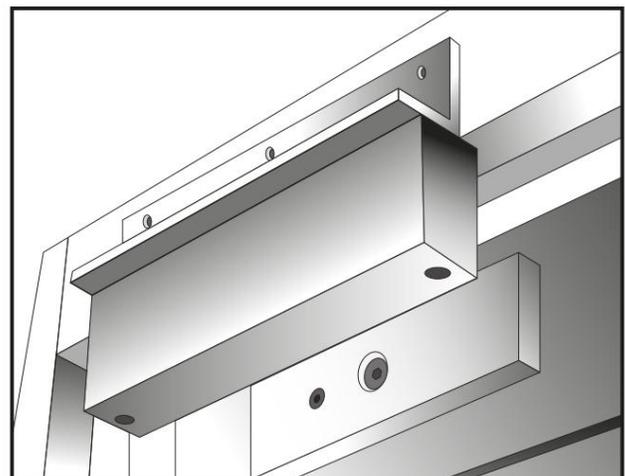


Code

**NLB-280** = For 600 lbs magnets  
**NLB-600** = For 1200 lbs magnets

**Specifications** • L-bracket

for swing doors. • Material: High-strength aluminum. • Cover finish: Anodized aluminum.





## Electric receiver



### Code NJ-320B

#### Specs

- **Dimensions:** 124x32x36 mm (L\*W\*H)
- **Holding Force:** 800 kg • **Bolt Material:** Stainless Steel • **Voltage:** DC 12 V • **Current:** 220 mA • **Feature:** Fail-Safe (Power to Lock) • **Surface**

Temperature: • **Operating Temperature:** • **Front Housing:** Painted Steel • **Built-in MOV Function** • **For** ± 20°C

**Use:** Wood, Metal, PVC Doors • -10 ~ 25°C (14 ~ 131°F)

**Opening Method:** • **Net Weight:**

90° puerta abatible.  
0.42 Kg.

## Electric lock



### Code ND-1600B

#### Specs

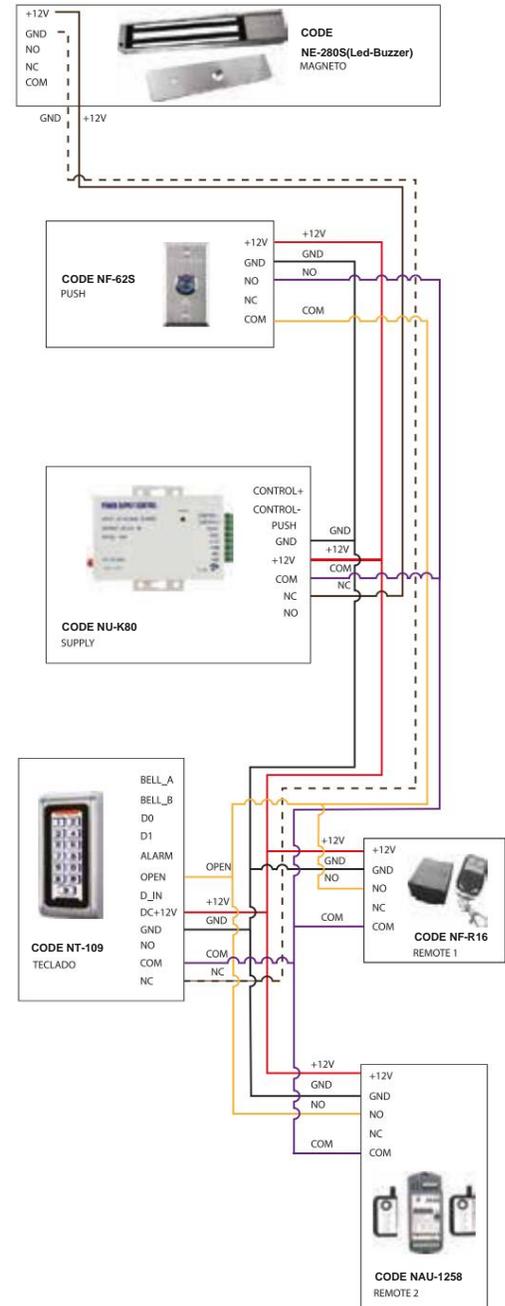
- **Dimensions:** 130x105x39 mm (L\*W\*H)
- **Holding Force:** 800 kg • **Bolt Material:** Stainless Steel • **Voltage:** 9-12 V DC • **Current:** • **Feature:** Fail-Safe (Power Lock) • **Power** 1.5-3 A.

**Consumption:** 10 W • **Sensitivity:** 1 s • **Filtered and Regulated Voltage:** 500 V DC (one minute) • **Locking**

**Method:** Magnetic Induction • **Low Power, Low Noise, Long Life**

- **Easy installation without instructions**
- **Bolt dimensions:** 20 mm. • **Short-circuit protection** • **Net weight:** 1.5 kg.

## Access controls



## Stainless Steel Password Panel



*Waterproof, LED lighting*

### Code NT-109

#### Specs

- **Dimensions:** 120x115x20 mm (L\*W\*H) • **Opening Methods:** Card, Code, Card+Code. • **Card Format:** EM-Marin / 125 KHz. • **Users:** Up to 2000 users with code • **Use only with available keypad** • **Fast search, less than 0.1s.** • **Multifunction device:** allows use of independent WG26 reader • **Erase lost cards via keypad for security** • **Short circuit protection:** if the relay or the emergency output are shorted, the output is blocked in 100s. • **Surface temperature:** • **Operating temperature:** • **Suitable humidity:** 0-90% (non-condensing) • **Net weight:** 0.52 Kg.

μ  
≤+20°C  
-10~+55°C (14-131°F)



## Transformer and wiring panel



Code  
NU-K80

### Specs

- **Dimensions:** 120x95x38 mm (L\*W\*H) • **Input voltage:** AC 110V~260V; AC 50Hz~60Hz • **Output voltage:** DC 12V; 3A
- **Output contact:** Access control, Electric lock, Opening button • **Time relay:** 0–15s • **Short circuit protection**

- **For use:** Access control, Electric lock.

## Wiring panel with emergency battery



*UPS battery not included, sold separately*

Code  
NU-03C (110)

### Specs

- **Dimensions:** 222x222x83 mm (L\*W\*H) • **Input voltage:** AC 110 V • **Output voltage:** DC 12 V - 18 V; 3A • **Output contacts:** Access control, electric lock, push button • **Time relay:** 0–30 s • **Optional accessories:** Backup battery 12 V/7 AH • **Short-circuit protection**

- **For use:** Access control, Electric lock.

## Emergency battery



Code  
NU-K8

*Battery for NU-03C box*

- Specifications • Dimensions:**  
150x63x93 mm (L\*W\*H) • **Nominal voltage:** 12 V. •  
**Capacity:** 7/AH. • **Maintenance-free**

- Can be mounted in any position thanks to its material. • Manufactured with advanced quality controls in AGM and GEL production. • 3% self-discharge per month at room temperature.

Nominal battery capacity. • The best choice for Access Control units.

## LED button



Code  
NF-62S

- Specifications • Dimensions:**  
86x50x20 mm (L\*W\*H) • **Materials:** Aluminum panel, Steel button. • **Current:** 3 A at DC 36 V Max.

- **Output contact:** NO/NC/COM
- **Useful life:** 1,000,000 tested cycles.
- **For use:** Lightweight doors. •
- Colors:** White, Blue (luminescent). • **Operating temperature:** -10→+55°C (14–131°F) • **Suitable humidity:** 0–90% (non-condensing) • **Weight:** 0.16 kg



## Pair of controls (single channel)



Code  
NAU-1258

### Specifications • Dimensions:

123x50x32 mm (L\*W\*H) • Uniform and high stable frequency of receiving and transmitting signals • Operating frequency: 315M, more stable than 10-5. • Control with low consumption design and long transmission range • Input voltage: AC/DC 12-36 V • Voice function, green power indicator to confirm operation. • L and M receiver types depending on output type. • Self-learning codes, convenient to add users • Weight: 0.34 Kg.

## Retractable pivot lock



Code  
NI-100B

### Specifications • Face Plate:

205x35x40 mm (L\*W\*H) • Lock Plate: 90x25x2 mm (L\*W\*H) • Bolt: 16 mm (bolt) / 16 mm (Diameter) • Voltage: DC 12 V • Turn-on Current: 960 mA

• Standby mode current: 130 mA. • Timer: 0/3/6/9 second options • Materials: High-quality aluminum, • Weight: 0.65 kg.

## 2-button control (unit)



Code  
NF-R16

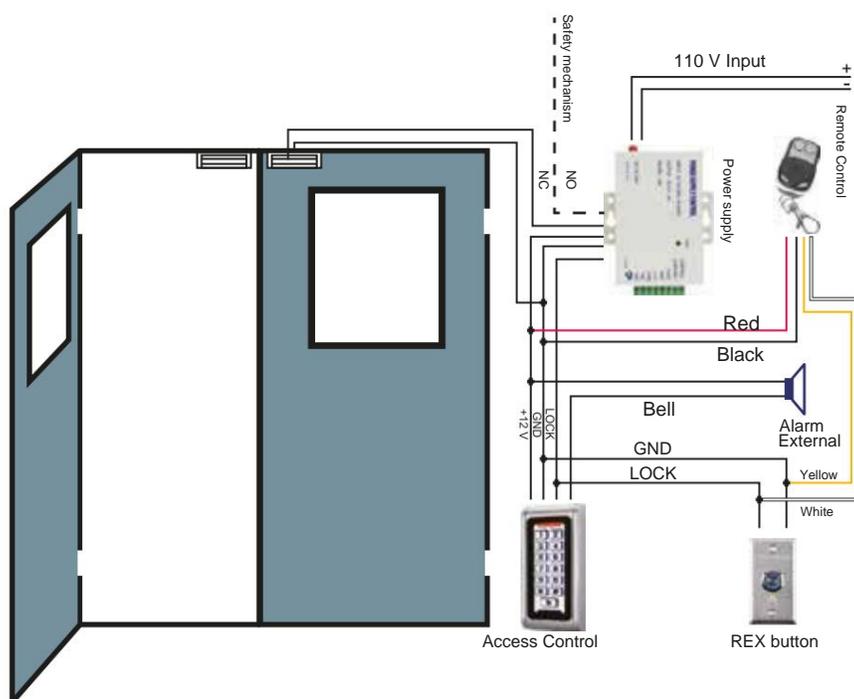
### Specifications • Dimensions:

60x42x28 mm (L\*W\*H) • Voltage: DC 12 V (DC 24 V optional) • Current: 8 mA

• Output current: NO/NC/COM  
• Signal frequency: 433.92 MHz.  
• Transmission power: 10 mW.  
• For use: access control. •

Transmission distance: 70 m (in open spaces) • Materials: Shock-resistant plastic • Up to 30 transmitters.

• Weight: 0.2 Kg.





## Access card encoder



Code  
**NF-K101 IC**

**Specifications** • Voltage: DC 5V or voltage by USB Cable

• Current: 100 mA

• Operating system: Windows 98/2000/XP/2003 • Dimensions:

14x100x30 mm (L\*W\*H) • Proximity range: 5-10 cm

• Frequencies: EM/ID (125 KHz) Mifare/IC/

13.56 MHz cards • Interface: Standard USB PC

• Operating temperature: -10~70°C

• Format: USB output

• Weight: 0.25 Kg.

## Extension card reader for NT-109 panel



\* This reader is just an extension of the NT-109 panel.  
\* It cannot be configured by itself. It is configured using the NT-109 panel.

Code  
**NK-RF 120 (IC)**

**Specifications** • Voltage: DC 5-16

V

• Current: 100 mA

• Operating temperature: -25~70°C • Proximity range:

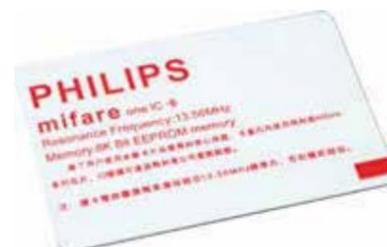
5-15 cm • Output format: Wiegand

26(default)/34, RS485/232 modifiable • Card type: Mifare-IC/EM ID • Proximity range: WG

100M, RS485 1200M • Dimensions:

86x115x18 mm (L\*W\*H) • Weight: 0.13 Kg.

## Phillips (ID) brand access cards



Code  
**NMF-02B**

Note: (Works with NT-109 panel).

**Specifications** • Chip: One Mifare

card (Phillips Chip) • Thickness: 0.76 mm

• Frequency: 13.56 MHz.

• Operation: Contact, no battery required • Operating temperature:

0~60°C • Operating humidity: 85% Rh Max.

• Can be printed on card printers. • Dimensions: 86x54x0.76

mm (L\*W\*H) • Weight: 6 g.

## Generic access card (ID)



Code  
**NEM-01A** (ID Card for NT-109 panel).

**NEM-01A(IC)System** (Suits with panels D-AK02, D-AK04, D-AK05).

**Specifications** • Narrow ID card •

Thickness: 0.8 mm • EM chip • 125 KHz.

## Key Fob Access Card (ID)(IC)



Code  
**NEM-03** (ID Card for NT-109 panel).

**NEM-03(IC)System** (Suits with panels D-AK02, D-AK04, D-AK05).

**Specifications** • ID keychain access

card • EM chip, 125 KHz. • 64 Bit, light blue