

SNR-CD3000-D Motorized Card Collector

Compact motorized card collection module for kiosk card return, recycling and unattended terminal integration.

Overview

The SNR-CD3000-D is an industrial motorized card collector designed for self-service kiosks, hotel systems, access control terminals, ticketing machines, visitor management systems and other unattended applications. It supports front card insertion, automatic card collection, card return and card positioning inside the card channel, helping terminal builders manage card intake and recycling reliably.

Key Features

- Automatic card collection and recycling for unattended self-service terminals.
- Supports card positioning at multiple locations inside the card channel.
- Motor-driven front card insertion and card return operation.
- Rubber roller card transport mechanism for stable card movement.
- Intelligent self-recovery process helps clear the card path after abnormal operation.
- Infrared photoelectric sensors support long-life card status detection.
- Card channel can support customized scanner or card reader integration according to project needs.
- Industrial metal + engineering plastic structure with wear and corrosion resistance.
- Low-maintenance design for continuous kiosk and terminal operation.



Quick Specifications

Model	SNR-CD3000-D
Product Type	Motorized Card Collector
Function	Automatic card collection and return
Interface	RS232 half-duplex
Connector	PH-3PIN
Power Supply	24VDC +/-10%
Card Size	85.47-85.90 mm x 53.92-54.18 mm
Card Thickness	0.7-1.1 mm
Transfer Time	Approx. 1.5 s
Weight	Approx. 0.7 kg

Typical Applications

- Hotel self-service kiosks and room card return systems.
- Visitor management systems and access control terminals.
- Ticket vending machines and card recycling terminals.
- Parking systems and unattended payment kiosks.
- Membership card, transit card and service card return equipment.
- Self-service terminals requiring controlled card intake and return.

Technical Specifications

Main card transport, electrical and environmental parameters for SNR-CD3000-D integration projects.

Model	SNR-CD3000-D
Product Category	Motorized Card Collector
Main Material	Metal + engineering plastic
Main Function	Card positioning, collection and card return
Card Transport Method	Motor-driven rubber roller drive
Card Movement	Front-end card insertion and card return
Communication Interface	RS232 half-duplex communication
Connector	PH-3PIN
Operating Voltage	24VDC +/-10%
Ripple Voltage	<200 mV
Peak Current	<3.0A
Static Current	<0.5A
Operating Temperature	0 deg C to 50 deg C
Operating Humidity	20%-80% RH, non-condensing
Storage Temperature	-15 deg C to 55 deg C
Storage Humidity	20%-80% RH
Card Length	85.47-85.90 mm
Card Width	53.92-54.18 mm
Card Thickness	0.7-1.1 mm
Card Transfer Time	Approx. 1.5 s from card entrance to inside collector
Card Exit Holding Length	35 mm +/-2 mm
Bent Card Adaptability	Uniform deformation height H <2 mm; H <1 mm normal operation; H >4 mm may cause card transport jam
Self-Test	Power-on self-test, operation self-test and command self-test
Reliability	Card collection life >800,000 cycles
MTBF	>200,000 hours for electronic components only
Net Weight	Approx. 0.7 kg

Integration Notes

- Designed for embedded kiosk installation where cards must be collected, returned or retained by command.
- RS232 half-duplex communication supports host-side control and status management.
- Infrared photoelectric sensors monitor card status throughout the card channel.
- Optional scanner or card reader modules can be integrated into the channel according to project design.
- Keep the card path clean and free from oil; power off before maintenance and avoid hot-plugging connectors.

Why Choose SNR-CD3000-D?

SNR-CD3000-D is suitable for kiosk projects that require reliable card intake, card return and card recycling in a compact mechanism. Compared with a passive card slot or manual collection structure, it provides motorized card transport, sensor-based detection, self-recovery logic and RS232 command control, making it practical for hotel card return, visitor systems, parking terminals and card recycling equipment.

Note: Specifications may vary according to card material, card thickness, optional reader/scanner configuration and project installation conditions. Please confirm card samples, protocol requirements and mechanical mounting before mass deployment.