Card collector Technical Information

Elementary functional Introduction

- With options to quit cards and callback cards if overtime under jamming;
- With options to quit cards or callback cards in force under jamming;
- With options to quit cards or not quit cards if overtime;
- With options for the time of quitting cards if overtime;
- With the function of avoiding wrong collection and card following. If the movements of the first card is not be finished, the second cards will not be collected;
- The signal of enabling of monitor computer and open can be offered;
- The validation or invalidation of cards can be received;
- Sound and light alarm in error condition;

Card material: All kinds of paper cards and PVC/ Mylar cards;
Net of card collector: About 0.7kg; **Collect time:** About 2S;

Electrical Specifications

- Rating Voltage: 24VDC±10%;
- Current Consumption: Peak-2.2Amp; Static Consumption: 0.1Amp;

Environmental Specification

- Temperature: -40℃ to 85℃（industrial); Relative humidity: 30%-90%;
- Location: Within a suitable cabinet.

Control interface description

TTL electrical level control interface is offered by the card collector which is educed by the CN1 of electrical outlet in the control broad.

The socket connectors with 2.54 mm space between is used as electrical outlet.

Interface description

J7 Power supply and TTL level input, collector output interface

No.	Signal name	Signal description	No.	Signal name	Signal description
1	GND 0 V	Power	7	Enable	Enable input
2	+24V DC	Power	8	Sway	Card swing input
3	GND	0V	9	Receive	The card has been received
4	Receive	Receive card input	10	GetCard	Receive the card
5	Reject	Return card input	11	Rejected	The card has been returned
6	Reset	non use	12	Jammed	Alleyway jammed, wait

J3: Serial port, 1/TXD,2/RXD ,3/GND

J8:（RELAY）（Output for 1 second after card receipt）(1/COM, 2/NO)

Control signal description

Receive:

- The signal of receive is input when Getcard output is effective signal (low voltage).
- The card is collected into the warehouse(with high voltage in the collecting procession).
- The signal can be trade as the input signal of card collecting in force under jamming;

Reject:

- When GetCard output is effective（low voltage）the reject signal is input，card is quitted (GetCard is high voltage within the quitting procession).
- The signal can be trade as the input signal of card quitting in force under jamming;

Enable: The signal of enable can be used as the input of vehicles detector;

Received:

- The low voltages signal will be input with the width of 200ms.
- It can spring the opening of the road barrier after the card being received to the box;

GetCard:

- The pin will input the low voltage when card entry from the entrance of the card collector.
- The low voltage will last until the monitor computer sends the receiving/quitting signal or card quitted as to overtime.

Quitting card if overtime: the card will be quitted automatically and the "rejected" signal will be input after the waiting time exceed T1.The range of T1 is determined by the DIP1 and DIP2 of the switch S1:

DIP1	OFF	OFF	ON	ON
DIP2	OFF	ON	OFF	ON
Time	Rejection	3S	10S	30S

Rejected: The pin will input the low voltage signal (lasting about 200ms at least) until the cad is took away or took back after the card quitted to the entrance;

Jammed: Card-jammed or the card is in the reading place waiting for the signal of receiving/quitting;

Card-quitting automatically:

- DIP4 of S1 = ON: start-up card-quitting automatically if card jammed;
- DIP4 of S1 = OFF: card will not be quitted automatically if card jammed;

Time of card quitting automatically:

- DIP3 of S1 = ON:The overtime of card quitting is 10S;
- DIP3 of S1 = OFF:The overtime of card quitting is 5S;

Set the card collection time after returning the card:

DIP5	OFF	OFF	ON	ON
DIP6	OFF	ON	OFF	ON
Time	Don't accept	5S	10S	15S

DIP7: Non use,

Enable signal,

- DIP8 of S1 = ON: Enable to enter a valid card collector;
- DIP8 of S1 = OFF: No need to enable card to read position;

Indication of the work condition

- There is a buzzer with a LED on the control broad indicate the work condition;
- After the self-inspection finished and the buzzer will input "toot" "toot" and LED will flick along with the buzzer;
- When the card collector is prohibited to work,LED will flick with 5Hz frequency,the buzzer will not alarm;
- When the card collector is permitted to work and in free condition,LED will flick at 1Hz frequency,the buzzer will not alarm;
- When the card collector is permitted and is in working condition, LED is bright and the buzzer will not alarm;
- "RECEIVED "signal is output,the buzzer alarm "toot" after the RECEIVED signal;
- When the signal of"REJECTED"is output and the time of which exceed 200ms,the buzzer input "toot-toot" "toot-toot" continuously. LED is bright along with the sound until card is took away or took back.;
- When the JAM signal is output,no matter the card collector is prohibited or permitted ,the alarm will input "toot, toot, toot" "toot, toot, toot" continuously,LED is flick along with the sound.