DC2010 Door Controller

DC2010 is a compact, quick and easy install door controller. It supports readers of Wiegand output format from 26-bit up to 130-bit. It has two on board relays that can be used to control door locks and alarms. It has two inputs, one can be used for exit detection and another can be used for door sensor. The DC2010 communicates with host through RS485 connection. A total of eight SDC-2000 devices can be connected in one RS485 bus. The device ID of each DC2010 can be set by the on-board dip switch.

System Development Kit (SDK) is available for the DC2010 door controller. The SDK includes the complete command set for controlling the DC2010 controller. A high level DLL supporting the .net framework 4.0 is also available for ease of development. System developers can use the SDK to develop their own application.


Fig. 1 DC2010 door controller board.

Technical Specification

Power Input	9V - 12V DC
Board Size	80mm x 60mm x 15mm (L x W x H)
Reader Interface	One reader port, supports 3-80 bits wiegand format
Communications	RS485, 9600bps, 8 data bits, 1 stop bit, no parity
Relay Outputs	Two relays; Form C; 120VAC/24VDC, 1A max.
Inputs	Two inputs; one for door sensor; one for door release
LED Indicators	Power, communication status

1. Boar Layout
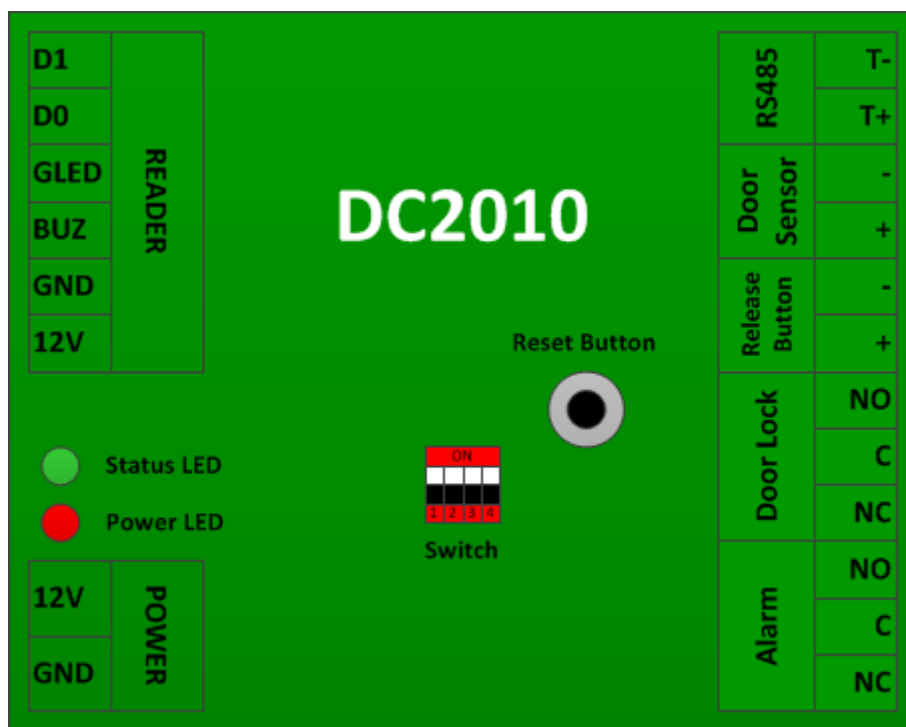
1.1 Reader Port

Port Name	Description
D1	Wiegand reader D1
D0	Wiegand reader D0
GLED	Wiegand reader green led
BUZ	Wiegand reader beeper
GND	Ground
12V	12V output to reader

1.2 Power Port

Port Name	Description
12V	12V Power input
GND	Power ground

1.3 Door Lock Port

Port Name	Description
NO	Normally open
C	Common
NC	Normally close

1.4 Alarm Output Port

Port Name	Description
NO	Normally open
C	Common
NC	Normally close

1.5 Release Button Input Port

Port Name	Description
+	Dry contact input for release button.
-	

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1.6 Door Sensor Input Port

Port Name	Description
+	Dry contact input for door sensor.
-	

1.7 RS485 Port

Port Name	Description
T+	RS485 +
T-	RS485 -

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